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BIOCOMP'08 CONFERENCE SCHEDULE

The 2008 International Conference on Bioinformatics and Computational Biology

Monte Carlo Resort, Las Vegas, Nevada, July 14-17, 2008

Note 1:

There are a number of other sessions (not listed as part of BIOCOMP'08 schedule) that are of significant interest to BIOCOMP conference participants (sessions belonging to other joint conferences in this event.) Therefore, you are encouraged to also check the schedules for other joint conferences. In particular, some sessions in PDPTA'08, CSC'08, GEM'08, IPCV'08, SWWS'08, DMIN'08, and IKE'08, discuss topics that are within the scope of BIOCOMP; these have been scheduled so that BIOCOMP attendees can also participate in them.

Note 2:

Each conference is divided into a number of topical sessions. These sessions are not necessarily scheduled in the same room/location. Therefore, conference attendees are to check the location of the session(s) they wish to attend - The conference room numbers appear in this document.

July 13

03:00 - 09:00pm: REGISTRATION (Second Floor, Conference Lobby; 1-5)

- 6:30am - 5:00pm: Registration (Second Floor, Conference Lobby: 1-5)
- 08:30 - 08:45am: **WORLDCOMP'08 Opening Remarks**
 Prof. Hamid R. Arabnia (General Chair & Coordinator)
 University of Georgia, Georgia, USA
 (LOCATION: Lance Burton Theater)
- 08:45 - 09:35am: **Keynote Lecture 1:**
The Parallel Computing Landscape: A Berkeley View 2.0
 Prof. David A. Patterson
 Pardee Prof. of CS; Director, RAD Lab & Par Lab; Past
 President, ACM; Member, National Academy of Engineering;
 Member, National Academy of Sciences; Fellow of IEEE, ACM,
 & AAAS; University of California at Berkeley.
 (LOCATION: Lance Burton Theater)
- 09:40 - 10:25am: **Keynote Lecture 2:**
Searching in the "Real World"
 Prof. Ophir Frieder
 The Royden B. Davis, SJ, Chair in Interdisciplinary
 Studies at Georgetown University; IITRI Chair Professor
 of CS at Illinois Institute of Technology; Director,
 Information Retrieval lab; Fellow of IEEE, ACM, and AAAS
 (LOCATION: Lance Burton Theater)
- 10:30 - 11:15am: **Keynote Lecture 3:**
Achieving your Dreams
 Anousheh Ansari
 CEO, Chairman and Co-founder of Prodea Systems, Inc., USA;
 Space Ambassador
 (LOCATION: Lance Burton Theater)
- 11:15a - 12:00p: **Keynote Lecture 4:**
**Dimensions in Reconfigurable Computing: A New Wave in
 Electronic System Designs**
 Chris Phillips
 Vice President of Engineering at ElementCXI, USA
 (LOCATION: Lance Burton Theater)
- 12:00 - 01:00pm: LUNCH (On Your Own)
- 01:00 - 02:00pm: **BIOCOMP KEYNOTE:**
**The Emerging Field of Translational Bioinformatics - A National
 Perspective**
 Prof. Brian D. Athey, Michigan Institute for Clinical and Health Research;
 Principal Investigator, NIH National Center for Integrative Biomedical
 Informatics; The University of Michigan Medical School, USA
 (LOCATION: Ballroom 5)

SESSION 1-BIOCOMP: GENE EXPRESSION AND DATA ANALYSIS

Chairs: Dr. Pengyu Hong and Dr. Ping Gong
National Center of Behavioral Genomics, USA
SpecPro Inc., USA
July 14, 2008 (Monday); 02:00pm - 03:00pm
(LOCATION: Ballroom 5)

02:00 - 02:20pm: Toward a Combinatorial Approach to Sample Size Problem in
Multiplereatment Microarray Studies
Vinhthuy Phan, E. Olusegun George, Quynh Tran and Thomas R. Sutter
University of Memphis, USA

02:20 - 02:40pm: Discoveries in shRNA Design
Hong Zhou, Xiao Zeng, Joseph Manthey
Saint Joseph College, USA; Superarray Bioscience Corporation, USA

02:40 - 03:00pm: Analysis of Correlations Between Genes and Triads of Transcription
Factors Using Microarray Expression Profiles
Edward A. Salinas and Amitava Karmaker
The CME Group, Inc., USA; University of Texas at San Antonio, USA

03:00 - 03:20pm: BREAK

SESSION 2-BIOCOMP: BIOINFORMATICS AND MEDICAL INFORMATICS

Chairs: Dr. Ping Gong and Reetal Pai
SpecPro Inc., USA); Texas A&M, USA
July 14, 2008 (Monday); 03:20pm - 06:00pm
(LOCATION: Ballroom 5)

- 03:20 - 03:40pm: Streptococcus in Toto - A Species-Specific Comparative Analysis
 Website Prototype
 Roxanne Tapia; Los Alamos National Lab, New Mexico, USA
- 03:40 - 04:00pm: An Evaluation of Discretization Methods for Learning Rules
 from Biomedical Datasets
 Jonathan L. Lustgarten, Shyam Visweswaran, Himanshu Grover,
 and Vanathi Gopalakrishnan
 University of Pittsburgh School of Medicine, Pittsburgh, PA, USA
- 04:00 - 04:20pm: Mathematical Analysis of EEG Signals of Patients with Prion Disease
 Mukesh Doble
 Indian Institute of Technology Madras, Chennai, India
- 04:20 - 04:40pm: Semantic Discovery of Protein Web Services
 Xiong Liu and Hassan A. Karimi
 Intelligent Automation, Inc., Rockville, Maryland, USA
 University of Pittsburgh, Pittsburgh, PA, USA
- 04:40 - 05:00pm: Scalable Parallel Word Search in Multi-Core/Multiprocessor Systems
 Frank Drews, Eric Petri, Jens Lichtenberg, and Lonnie Welch
 Ohio University, Athens, Ohio, USA
- 05:00 - 05:20pm: Northwest Trajectory Analysis Capability: A Platform for
 Enhancing Computational Biophysics Analysis
 Elena S. Peterson, Leigh Williams, Eric G. Stephan, Stuart Rose,
 Abbie Corrigan, Canhai Lai, Roberto Lins, Terence Critchlow,
 T. P. Straatsma, Thereza Soares, and Randy Scarberry
 Pacific Northeast National Laboratory, USA
- 05:20 - 05:40pm: Improved Segmentation Based on Probabilistic Labeling
 Kai-Chieh Yang, Ming-Chi Jhuang, Jhan-Syuan Yu, and Jung-Hua Wang
 National Taiwan Ocean University, Taiwan
- 05:40 - 06:00pm: Computational Neuroinformatics - Basic Science and Clinical Applications
 John C. Mazziotta and Arthur W. Toga
 Chair, Dept. of Neurology & Director of Brain Mapping Center;
 Director, Laboratory of Neuro Imaging and Co-Director of Brain
 Mapping Center; University of California, Los Angeles, USA
- 06:00 - 09:00pm: Tutorials (please see the list of tutorials)**
- 09:10 - 11:30pm: CONFERENCE RECEPTION DINNER & BANQUET KEYNOTE - July 14 (Monday)**
High Performance Computing and Computational Intelligence: Link
to the Translational Medicine and Personalized Healthcare
Dr. Jack Y. Yang and Dr. Mary Qu Yang
Harvard University, Massachusetts, USA and
National Human Genome Research Institute, NIH, Bethesda, USA
(LOCATION: Ballrooms 1-5)

6:45am - 5:00pm: Registration (Second Floor, Conference Lobby: 1-5)

SESSION 3-BIOCOMP: METABLOMICS, PROTEOMIC AND PROTEIN FUNCTION

Chairs: Dr. Harold J. Drabkin and Jens Lichtenberg
The Jackson Laboratory, Bar Harbor Maine, USA
Ohio University, USA
July 15, 2008 (Tuesday); 08:00am - 09:00am
(LOCATION: Ballroom 5)

08:00 - 08:20am: K-Nearest Neighbor Classifier Ensemble for Prediction of Phosphorylation Sites
Zhiwen Yu, Zhongkai Deng, and Hau-San Wong
City University of Hong Kong, Hong Kong

08:20 - 08:40am: The Role of Protein Electrostatics in Facilitating the Catalysis of DEAD-Box Proteins
Christopher M. Frenz; New York City College of Tech., Brooklyn, USA

08:40 - 09:00am: Functional Annotation of Protein Isoforms and Modified Forms
Harold J. Drabkin, Cecilia N. Arighi, Cathy H. Wu, and Judith A Blake
Mouse Genome Informatics, The Jackson Lab., Bar Harbor, ME, USA
Georgetown University Medical Center, Washington DC, USA

SESSION 4-BIOCOMP: STRUCTURE AND DYNAMICS OF MACRO MOLECULES + STRUCTURE ALIGNMENT

Chairs: Dr. Jianhua Ruan and Rishi Mukhopadhyay

University of Texas at San Antonio, USA

University of South Carolina, Columbia, SC, USA

July 15, 2008 (Tuesday); 09:00am - 09:40am

(LOCATION: Ballroom 5)

09:00 - 09:20am: FREE SLOT

09:20 - 09:40am: A Deterministic Algorithm for DNA Sequence Comparison
A. Kheniche, Abdel Salhi, A. Harrison, and J. M. Dowden
The University of Essex, Colchester, United Kingdom

SESSION 5-BIOCOMP: APPLICATION OF ENGINEERING TECHNIQUES AND MATHEMATICS IN MEDICINE AND BIOLOGY

**Chair: Dr. Qiang Cheng, Southern Illinois University, USA
July 15, 2008 (Tuesday); 09:40am - 10:20am
(LOCATION: Ballroom 5)**

09:40 - 10:00am: Significance-Testing of Periodogram for Short Time Series
Andrzej Kudlicki, Maga Rowicka, and Zbyszek Otwinowski
University of Texas Southwestern Medical Center, USA

10:00 - 10:20am: Gait Analysis on the Use of Four-castered Walker and
Elderly-Simulation Suit
Tetsuya Hirotomi and Yasutomo Hosomi
Shimane University, Shimane, Japan

10:20 - 10:40am: BREAK

SESSION 6-BIOCOMP: ALGORITHMS AND MODELS + TOOLS + INTELLIGENT DRUG DESIGN

Chairs: Prof. Mukesh Doble and Dr. Lavanya Devi Golagani

Indian Institute of Technology, Madras, India

Andhra University, India

July 15, 2008 (Tuesday); 10:40am - 11:20am

(LOCATION: Ballroom 5)

10:40 - 11:00am: Ronald: A Domain-Specific Language to Study the Interactions
Between Malaria Infections and Drug Treatments

T. Antao, P. McBurney, and I. Hastings

Liverpool School of Tropical, UK

11:00 - 11:20am: A Quantitative Semantics of Formal Ontology of Drug Interactions

Koji Tashima, Naoko Izumi, and Naoki Yonezaki

Tokyo Institute of Tech., Japan; Jumonji University, Japan

SESSION 7-BIOCOMP: MOTOR CONTROL AND BRAIN

Chair: Prof. T. Ramanujam, India

July 15, 2008 (Tuesday); 11:20am - 12:20pm

(LOCATION: Ballroom 5)

- 11:20 - 11:40am: The Slower Side Marches to a Distant Drummer: A Fresh Look at the Results of a Paper and Pencil Test for Laterality of Motor Control
Iraj Derakhshan (M.D., Neurologist); Charleston, West Virginia, USA
- 11:40 - 12:00pm: Right Handers Breath with Left Hemisphere: Handedness and the Risk of Sudden Death in Hemispheric Stroke in NASCET
Iraj Derakhshan (M.D., Neurologist); Charleston, West Virginia, USA
- 12:00 - 12:20pm: Laterality of Motor Control and its Robotic Applications: A Paper and Pencil Method for Lateralizing the Major (Action, Thought) Hemisphere
Iraj Derakhshan (M.D., Neurologist); Charleston, West Virginia, USA
- 12:20 - 12:50pm: **LUNCH (On Your Own)**
- 12:50 - 01:20pm: **Keynote/Invited Talk:**
Unfoldomics of Human Diseases
Vladimir N. Uversky, Senior Research Professor
Indiana University School of Medicine, Indianapolis, Indiana, USA
and Russian Academy of Sciences, Moscow, Russia

SESSION 8-BIOCOMP: BIOINFORMATICS AND MEDICAL INFORMATICS

Chairs: Dr. Ping Gong and Reetal Pai
SpecPro Inc., USA; Texas A&M, USA
July 15, 2008 (Tuesday); 01:20pm - 02:00pm
(LOCATION: Ballroom 5)

- 01:20 - 01:40pm: Integrated ICT Approach to Improve Clinical Processes in
Healthcare Organizations: A Case Study
Elena Sini, Paolo Locatelli, and Nicola Restifo
Fondazione IRCCS Istituto Nazionale dei Tumori di Milano, Italy
- 01:40 - 02:00pm: An Organizational Framework of Personal Health Records for
Social Networks
Syed Omair Hasan and Shmuel Rotenstreich
George Washington University, USA

SESSION 9-BIOCOMP: ALGORITHMS

Chair: Lavanya Devi Golagani, Andhra University, India
July 15, 2008 (Tuesday); 02:00pm - 02:40pm
(LOCATION: Ballroom 5)

02:00 - 02:20pm: An Algorithm for Discrimination of Multiple-Fragment Peaks in Capillary Fingerprinting Chromatograms
Frank M. You , Ming-Cheng Luo, Yong Qiang Gu, Gerard R. Lazo, Jan Dvorak, and Olin D. Anderson
University of California, Davis, USA

02:20 - 02:40pm: Tracking the Dimensional Evolution of Gene Expression Biclusters
Liviu Badea
National Institute for Research in Informatics, Romania

SESSION 10-BIOCOMP: GENE CO-EXPRESSION NETWORKS IN SYSTEMS BIOLOGY AND SYSTEMS GENETICS

**Chairs: Dr. Jun Dong and Dr. Steve Horvath
University of California, Los Angeles, California, USA
July 15, 2008 (Tuesday); 02:40pm - 08:30pm
(LOCATION: Ballroom 5)**

02:40 - 03:10pm: An Integrative Network Approach to Map the Transcriptome to the Phenome
Michael R. Mehan
University of Southern California, Los Angeles, California, USA

03:10 - 03:40pm: **DISCUSSION SESSION A-BIOCOMP (Refreshments will be available)**
July 15, 2008 (Tuesday)
(LOCATION: Hallways - Ballrooms 1-5)

- 0. TableMaker: An ad hoc Query Tool for Relational Databases
 C. M. Lushbough, J. Duvick, Q. Dong, and D. Jennewein,
 J. Reynoldson, and V. Brendel
 University of South Dakota, Vermillion, South Dakota, USA
 Iowa State University, Ames, Iowa, USA
 Indiana University, Bloomington, Indiana, USA
- 0. ESPSim: A JAVA Application for Calculating Electrostatic
 Potential Map Similarity Scores
 Greg Martyn and Christopher M. Frenz
 Manhattan College, USA; New York City College of Tech. (CUNY), USA
- 0. Minimum Data Requirements and Supplemental Angle Constraints
 for Protein Structure Prediction with REDCRAFT
 E. Timko, P. Shealy, M. Bryson, and H. Valafar
 University of South Carolina, Columbia, South Carolina, USA
- 0. Specificity Normalization for Identifying Selective Inhibitors in
 Virtual Screening
 Reetal Pai, James C. Sacchettini, and Thomas R. Ioerger
 Texas A&M University, USA
- 0. The SiteSeeker Motif Discovery Tool
 Klaus Ecker and Lonnie Welch
 Ohio University, USA
- 0. Bioinformatics Aspects in Diabetic Neuropathy Using Functional
 Protein Sequences
 Hanuman Thota, Sivaprasad Akula, Kunjum Nageshwararo,
 SureshBabu Changalsetty, Apparao Allam and Lalitha Saroja Thota
 Andhra University, India
- 0. Design and Implementation of a Framework for Complex Metadata
 Translations Using Dijkstra's Algorithm
 Wolf-Dieter Otte, Corinna Gries, and Mike Kasper
 Northern Arizona University, USA
 Global Institute of Sustainability, Arizona State University, USA
- 0. Data Mining of Capacitance Relaxation Phenomena in Classifying
 Breast Cancer Cell
 T.K.Basak, S.Murugappan, V. Cyrilraj, Shweta Pandey, and S. Abirami
 Krishna Engineering College, India
- 0. Bioinformatics for Leukemia, MDS, Associated with Bone Marrow
 Depression
 T. K. Basak, T. Ravi, V. Cyrilraj, G. Gunasekaran (+Ramanujam)
 Krishna Engineering College, India
- 0. Bioinformatics Tools: Searching for Markers in DNA/RNA Sequences
 Kuha Mahalingam and Omar Bagasra
 Claflin University, USA
- 0. Data in and Data out: The Use of Controlled Vocabularies in the
 Mouse Genome Informatics System
 Harold Drabkin, Alex Diehl, Li Ni, Mary Dolan, David Hill, and Judith
 Blake
 Mouse Genome Informatics, The Jackson Laboratory, Bar Harbor, ME, USA
- 0. Protein Classification with Decision Trees (C4.5)
 Bojan Pepik, Petre Lameski, Slobodan Kalajdziski, and Danco Davcev
 University Ss. Cyril & Methodius, Skopje, Macedonia
- 0. Computational Detection of Transcriptional Regulatory Elements
 Controlling Protein Complexes in Apoptosis
 Fred Y. Peng and Frederic Pio; Simon Fraser University, BC, Canada

- 0. The Protein Secondary Structure Flexibility
Kresimir Sikic, Branko Jeren, and Sanja Tomic; Zagreb, Croatia
- 0. Identifying Protein Flexibility by NMA
Kresimir Sikic, Branko Jeren, and Sanja Tomic; Zagreb, Croatia
- 0. Cluster Analysis and Phylogenetic Relationship in Biomarker
Identification of Microarray Data of Type 2 Diabetes and Nephropathy
in Asian Indians
Satya van Guttula, Hanuman Thota, Sivaprasad akula, Kunjum
Nageshwararo,
SureshBabu Changaletty, Apparao Allam and Lalitha Saroja Thota
Andhra University, India

SESSION 11-BIOCOMP: GENE CO-EXPRESSION NETWORKS IN SYSTEMS BIOLOGY AND SYSTEMS GENETICS (Continued ...)

Chairs: Dr. Jun Dong and Dr. Steve Horvath
University of California, Los Angeles, California, USA
July 15, 2008 (Tuesday); 03:40pm - 08:30pm
(LOCATION: Ballroom 5)

- 03:40 - 04:10pm: Inferring Causal Phenotype Networks from Segregating Populations
 Elias Chaibub Neto
 University of Wisconsin-Madison, Madison, Wisconsin, USA
- 04:10 - 04:40pm: A Genome-Wide Signaling Map for Animals
 Josh Stuart
 University of California, Santa Cruz, California, USA
- 04:40 - 05:10pm: Statistical Methods to Map the Genetic Basis of Gene Expression Networks
 Christina Kendzierski
 University of Wisconsin-Madison, Wisconsin, USA
- 05:10 - 05:40pm: Regression Models in Dissecting Transcriptional Regulatory Network
 Ning Sun
 Yale School of Medicine, USA
- 05:40 - 06:00pm: Functional Organization of the Transcriptome in Human Brain
 Michael C. Oldham
 University of California, Los Angeles, California, USA
- 06:00 - 06:20pm: A Gene Co-Expression Similarity Based Meta Analysis Method for Microarray Data
 Wen Lin
 University of California, Los Angeles, California, USA
- 06:20 - 06:40pm: The NEO Software: A Genetic Marker Based Software for Orienting the Edges in Quantitative Trait Networks
 Tova Fuller
 University of California, Los Angeles, California, USA
- 06:40 - 07:00pm: Classifying Microarray Samples Using Gene Co-Expression Network Methods
 Peter Langfelder
 University of California, Los Angeles, California, USA
- 07:00 - 07:20pm: Signed Weighted Networks in Embryonic Stem Cells: A Systems Biology Approach for Extending and Improving the Reprogramming Network
 Mike Mason, University of California, Los Angeles, USA
- 07:20 - 07:40pm: A Geometric Interpretation of Gene Co-Expression Network Analysis
 Jun Dong
 University of California, Los Angeles, California, USA
- 07:40 - 08:00pm: A User-Friendly Software for Weighted Gene Co-Expression Network analysis (WGCNA)
 Dr. Steve Horvath
 University of California, Los Angeles, California, USA
- 08:00 - 08:30pm: Joint Co-Expression and eQTL/Genetical Genomic Analysis
 Grier P. Page
 University of Alabama at Birmingham, Alabama, USA
- 06:00 - 09:30pm: Tutorials (please see the list of tutorials)**

6:45am - 5:00pm: Registration (Second Floor, Conference Lobby: 1-5)

SESSION 12-BIOCOMP: MULTISCALE MODELS FOR SYSTEMS AND SYNTHETIC BIOLOGY

Chair: Prof. Yiannis N. Kaznessis

University of Minnesota, Minneapolis, Minnesota, USA

July 16, 2008 (Wednesday); 08:00am - 09:20am

(LOCATION: Ballroom 5)

- 08:00 - 08:20am: Multiscale Effects in Host-Pathogen Interactions
J. Peccoud
Virginia Polytechnic Institute and State University, Blacksburg, VA, USA
- 08:20 - 08:40am: Development of a Multi-Scale Model for Biomembrane Deformations
Dmitry Kopelevich
University of Florida, Gainesville, Florida, USA
- 08:40 - 09:00am: Multiscale Models for Synthetic Biology
Yiannis N. Kaznessis
University of Minnesota, Minneapolis, Minnesota, USA
- 09:00 - 09:20am: Quantitative Systems Analysis of Multicellular Morphodynamics
Anand R. Asthagiri
California Institute of Technology, Pasadena, California, USA

SESSION 13-BIOCOMP: APPLICATION OF ENGINEERING TECHNIQUES AND MATHEMATICS IN MEDICINE AND BIOLOGY

Chairs: Dr. Getachew K. Befekadu and Reetal Pai
Georgetown University, USA; Texas A&M, USA
July 16, 2008 (Wednesday); 09:20am - 12:00noon
(LOCATION: Ballroom 5)

- 09:20 - 09:40am: Analysis of Goldbeter-Koshland Switch Using the Chemical Master Equation
 Jingwei Zhang, Layne T. Watson, Masha Sosonkina, and Yang Cao
 Virginia Polytechnic Institute and State University, USA
- 09:40 - 10:00am: Classifying Proteins Related to Adverse Drug Reactions
 from Drug Targets Using Support Vector Machines
 Shih-Fang Lin, Ke-Ting Xiao, Chung-Cheng Chiu, and Von-Wun Soo/
 National Tsing Hua University, HsinChu, Taiwan
 National University of Kaohsiung, Kaohsiung, Taiwan
- 10:00 - 10:20am: Probabilistic-Based Mixture Regression Models for Multi-Class
 Alignment of LC-MS Data
 G. K. Befekadu and H. W. Resson
 Georgetown University, Washington, DC, USA
- 10:20 - 10:40am: BREAK**
- 10:40 - 11:00am: Identifying Factors that Improve the Predictive Quality of BMI
 for Health Status
 M. L. D. Ponce, J. Ding, and M. H. N. Tabrizi
 East Carolina University, Greenville, North Carolina, USA
- 11:00 - 11:20am: Application of Framelet Transform to the MS-Based Proteomics
 Data Preprocessing
 Haihui Wang and Yijun Chang; Beihang University, Beijing, P. R. China
- 11:20 - 11:40am: Efficient Sparse Dynamic Programming for the Merged LCS Problem
 Yung-Hsing Peng, Chang-Biau Yang, Chiou-Ting Tseng, and Chiou-Yi Hor
 National Sun Yat-Sen University, Taiwan
- 11:40 - 12:00pm: Evaluation of the Deformity of Cleft Nose Based on Statistical
 and Neural Network
 Wang Xi, D. W. Kim, and Kil To Chong
 Chonbuk National University, Jeonju, Korea
 Yonsei University College of Medicine, Seoul, Korea
- 12:00 - 12:40pm: LUNCH (On Your Own)**

SESSION 14-BIOCOMP: METABLOMICS, PROTEOMIC AND PROTEIN FUNCTION

Chairs: Dr. Harold J. Drabkin and Prof. Omar Bagasra

The Jackson Laboratory, Bar Harbor Maine, USA

Director, Dept. Biology, South Carolina Center for Biotechnology, USA

July 16, 2008 (Wednesday); 12:40pm - 01:40pm

(LOCATION: Ballroom 5)

- 12:40 - 01:00pm: Prediction of Protein Function Using Graph Container and Message Passing
Hongbo Zhou, Qiang Cheng and Mehdi Zargham
Southern Illinois University, USA
- 01:00 - 01:20pm: Simulation of FGF-2 Binding with Receptors on Cell Surface on the Wall in a Bioreactor System
Changjiang Zhang, Wensheng Shen, Kimberly Forsten Williams, Michael Fannon and Jun Zhang
University of Kentucky, USA
- 01:20 - 01:40pm: Proteins: From Structural Classification to Amino Acid Interaction Networks
Stefan Balev and Omar Gaci
LITIS, Universite du Havre, France

SESSION 15-BIOCOMP: GENETIC NETWORK MODELING AND INFERENCE

Chair: Dr. Chaoyang Zhang, University of Southern Mississippi, USA
July 16, 2008 (Wednesday); 01:40pm - 02:40pm
(LOCATION: Ballroom 5)

01:40 - 02:00pm: Generating Robust Gene Interaction Network Using Bayesian Methods
Nan Wang, Changhe Yuan, Bindu Nandurri, and Susan Bridge
Mississippi State, Mississippi, USA

02:00 - 02:20pm: Inferring Gene Regulatory Network of Yeast Cell-Cycle
Using Dynamic Bayesian Network
Peng Li, Chaoyang Zhang, Edward J. Perkins, Ping Gong, and Youping Deng
University of Southern Mississippi, Mississippi, USA

02:20 - 02:40pm: Creating an Automation Expressed Sequence Tags Analysis Workflow
Mehdi Pirooznia, Edward J. Perkins, Ping Gong, Chaoyang Zhang,
and Youping Deng
University of Southern Mississippi, Mississippi, USA

SESSION 16-BIOCOMP: BIOINFORMATICS AND MEDICAL INFORMATICS

Chairs: Dr. Frank Emmert-Streib and Dr. Nan Mei
National Center for Toxicological Research, USA
July 16, 2008 (Wednesday); 02:40pm - 04:20pm
(LOCATION: Ballroom 5)

02:40 - 03:00pm: An Overview of the BioExtract Server - a Distributed, Web Based Application for Bioinformatic Analysis
 C. M. Lushbough
 University of South Dakota, USA

03:00 - 03:40pm: **DISCUSSION SESSION B-BIOCOMP (Refreshments will be available)**
July 16, 2008 (Wednesday)
(LOCATION: Hallways - Ballrooms 1-5)

- 0. Improving Automatic Inference of Biological Networks Governing *C. Elegans* Vulval Induction by Incorporating Interaction Data
 Xiaoyun Sun and Pengyu Hong
 National Center of Behavioral Genomics, USA
- 0. An Efficient Algorithm for the Longest Pattern Subsequence Problem
 Xiaodong Wang, Lei Wang, and Yingjie Wu
 Fuzhou University, Fuzhou, P. R. China
 Georgia Institute of Technology, Atlanta, Georgia, USA
- 0. Genomic Scale Reconstruction of Gene Regulatory Networks from Microarray Data
 Kenneth Sundberg, Daniel Ence, Daniel Wilcox, Quinn Snell, and Mark Clement; Brigham Young University, Provo, Utah, USA
- 0. Validation of the Human Alu Phylogeny: a Whole-Genome Analysis
 Sridhar Ramachandran and Travis Doom
 Indiana University Southeast, New Albany, Indiana, USA
 Wright State University, Dayton, Ohio, USA
- 0. Fuzzy C-Means Algorithm for Clustering Protein Sequences
 G Lavanya Devi, Allam Apparao, GRSridhar, A. Damodaram, and G. Jaya Suma; Andhra University, India
- 0. E.Coli Promoter Recognition Through Wavelets
 T. Sobha Rani and Raju S. Bapi; Univeristy of Hyderabad, India
- 0. Two Dimensional Modeling and Computer Simulation of Tumor Growth
 Loretta Ichim, Radu Dobrescu, and Catalin Vasilescu
 Politehnica University of Bucharest, Romania
- 0. Using Simple Computer Exercises to Assist in the Rehabilitation of Stroke Patients: A Prototype
 G. Jones, G. Pearce, and M. Smith
 University of Wolverhampton, Wolverhampton, United Kingdom
- 0. An Algorithm for Estimation of Abdominal Pressure by Electromyography
 K. S. Kim, Y. S. An, J. H. Seo, and C. G. Song
 Chonbuk National University, Korea
- 0. Analysis of Physiological Measures for Human Cognitive State Estimation
 Rajesh Singla and Hari Singh; NIT Jalandhar, India
- 0. Classification of Normal and Abnormal Knee Joint Using Back-Propagation Neural Network
 K. S. Kim, J. H. Seo, and C. G. Song; Chonbuk National Univ., Korea
- 0. Comparison of Acoustical Parameters of Knee Sound According to Pathological Condition For Pattern Extraction
 C. G. Song, K. S. Kim, and J. H. Seo; Chonbuk National Univ., Korea
- 0. Optimum Electrode Configuration to Estimate Abdominal Pressure Using Regression Analysis of Bio-Impedance Signal
 C. G. Song, K. S. Kim, Y. S. An, and J. H. Seo
 Chonbuk National University, Korea

SESSION 16-BIOCOMP: Continued: BIOINFORMATICS AND MEDICAL INFORMATICS

**Chairs: Dr. Frank Emmert-Streib and Dr. Nan Mei
National Center for Toxicological Research, USA
July 16, 2008 (Wednesday); 02:40pm - 04:20pm
(LOCATION: Ballroom 5)**

03:40 - 04:00pm: Combinations of Context-Free Shifts and Shifts of Finite Type
Hiroshi Kamabe
Gifu University, Japan

04:00 - 04:20pm: A Computational Framework for Performance Optimization of
Bioinformatics Applications
Avinash Shankaranarayanan and Christine Amaldas
Auckland University of Technology, Auckland, New Zealand

SESSION 17-BIOCOMP: (CONCURRENT SESSION with 18-BIOCOMP)

GENE EXPRESSION AND DATA ANALYSIS

Chairs: Dr. Nan Mei and Jingwei Zhang

National Center for Toxicological Research, USA

Virginia Polytechnic Institute and State University, USA

July 16, 2008 (Wednesday); 04:20pm - 05:20pm

(LOCATION: Ballroom 5)

- 04:20 - 04:40pm: Mouse Liver Gene Expression Profile of Acrylamide Administered in Drinking Water
Nan Mei, Mugimane G. Manjanatha, Jo Tseng, Stacey L. Dial, Wayne Liao, and Lei Guo
National Center for Toxicological Research, Jefferson, Arkansas, USA
PhalanxBio, Inc., Palo Alto, California, USA
- 04:40 - 05:00pm: Majority Logic Decoding for Probe-Level Microarray Data
Humberto Ortiz-Zuazaga, Tim Tully, and Oscar Moreno
University of Puerto Rico, San Juan, Puerto Rico
Dart Neuroscience LLC, San Diego, California, USA
Gauss Research Laboratory, Inc., San Juan, Puerto Rico
- 05:00 - 05:20pm: PC-Relief-F Feature Filtering Algorithm: Application and Utilization in Selecting Informative Genes from Microarray Data
Sapna Kumari and Huann-Sheng Chen
Michigan Technological University, Houghton, Michigan, USA

SESSION 18-BIOCOMP: (CONCURRENT SESSION with 17-BIOCOMP and 19-BIOCOMP)

BIOMOLECULAR PATHWAYS AND SYSTEM BIOLOGY

Chair: Dr. Jianhua Ruan, University of Texas at San Antonio, USA

July 16, 2008 (Wednesday); 04:40pm - 06:00pm

(LOCATION: Ballroom 1)

- 04:40 - 05:00pm: A Modified Dirichlet Process Mixture Model for Clustering Phosphopeptides Based on Their Response to Anti-Cancer Drug Perturbation
Babak Shahbaba, Eva Prenosil, Anjali Jain, and Sylvia K. Plevritis
Stanford University, USA; Cedars-Sinai Medical Center, USA
- 05:00 - 05:20pm: Identification of Condition-Specific Regulatory Modules by Multi-Level Motif and mRNA Expression Analysis
Li Chen, Jianhua Xuan, Rebecca B. Riggins, Yue Wang, Eric P. Hoffman, and Robert Clarke
Virginia Polytechnic Institute and State University, USA;
Georgetown University School, USA; Children's National Medical Center, USA
- 05:20 - 05:40pm: Word-Based Characterization of the Bidirectional Promoters from the Human DNA-Repair Pathway
Jens Lichtenberg, Edwin Jacox, Mary Q Yang, Laura Elnitski, and Lonnie Welch
Ohio University, USA
- 05:40 - 06:00pm: Discovery of Regulatory Elements in Oomycete Orthologs
Jens Lichtenberg, Paul Morris, Klaus Ecker, and Lonnie Welch
Ohio University, Athens, Ohio, USA
Bowling Green State University, Bowling Green, Ohio, USA

SESSION 19-BIOCOMP: (CONCURRENT SESSION with 18-BIOCOMP)

MEDICAL DIAGNOSTIC TOOLS AND METHODS

Chair: Dr. Igor Szczyrba, University of Northern Colorado, USA

July 16, 2008 (Wednesday); 05:20pm - 06:20pm

(LOCATION: Ballroom 5)

- 05:20 - 05:40pm: On the Role of a Nonlinear Stress-Strain Relation in Brain Trauma
Igor Szczyrba, Martin Burtscher, and Rafal Szczyrba
University of Northern Colorado, Greeley, Colorado, USA
The University of Texas at Austin, Texas, USA
Funiosoft, LLC, Silverthorne, Colorado, USA
- 05:40 - 06:00pm: A Federative Approach for a Virtual Community in Elderly Care:
a Different Way in eCare
Giovanni Rinaldi, Mike Martin, and Massimo Busuoli
CUP 2000 Spa, Bologna, Italy; University of Newcastle, UK;
ENEA, Liaison Office, Bruxelles, Belgium
- 06:00 - 06:20pm: Modified Detrended Fluctuation Analysis Method in Depth of
Anesthesia Assessment Application
T. Nguyen-Ky, Peng Wen, and Yan Li
University of Southern Queensland, Toowoomba, Australia

SESSION 20-BIOCOMP: BIOINFORMATICS AND APPLIED GENOMICS IN LATIN AMERICA

**Chairs: Dr. Diana Magalhaes de Oliveira, Dr. Jeronimo C. Ruiz, Dr. Goran Neshich, and Prof. Vasco Ariston C. Azevedo; Brazil
July 16, 2008 (Wednesday); 06:20pm - 07:00pm
(LOCATION: Ballroom 5)**

- 06:20 - 06:40pm: The Table of Interface Forming Residues as the Specificity Indicator for Serine Proteases Bound to Different Inhibitors
R. C. Togawa, C. Ribeiro, I. Mazoni, T. Pelligrinelli, J. G. Jardine, and G. Neshich
Embrapa Information Technologies - CNPTIA, Campinas, SP, Brazil
- 06:40 - 07:00pm: HiperMUSCLE: An Intuitive Graphical User Interface for the Multiple Sequence Alignment Program MUSCLE (Edgar, 2004)
G. A. C. Santos, I. M. C. Maia, F. F. Araujo, A. C. L. Pacheco, S. R. Medeiros, C. R. F. Gadelha, S. C. Silva, R. Araujo-Filho, and D. M. Oliveira
Nucleo Tarcisio Pimenta de Pesquisa Genomica e Bioinformatica - NUGEN; Universidade Estadual do Ceara, Itaperi, Brazil
- 06:00 - 09:30pm: Tutorials (please see the list of tutorials)**

6:45am - 5:00pm: Registration (Second Floor, Conference Lobby: 1-5)

SESSION 21-BIOCOMP: APPLICATION OF ENGINEERING TECHNIQUES AND MATHEMATICS IN MEDICINE AND BIOLOGY

Chairs: Jonathan L. Lustgarten and Lavanya Devi Golagani
University of Pittsburgh School of Medicine, Pittsburgh, PA, USA
Andhra University, India
July 17, 2008 (Thursday); 08:00am - 10:20am
(LOCATION: Ballroom 5)

- 08:00 - 08:20am: A Group Monitoring Wireless System for Health Care Monitoring
Alessandro Brawerman and Mauricio Perreto
University of Positivo, Curitiba, Brazil
- 08:20 - 08:40am: Reverse Engineering Module Networks by PSO-RNN Hybrid Modeling
Yuji Zhang, Jianhua Xuan, Benildo G. de los Reyes, Robert Clarke,
and Habtom W. Ressom
Lombardi Comprehensive Cancer Center, Georgetown Univ., Washington, DC,
USA
Virginia Polytechnic Institute and State University, Virginia
University of Maine, Orono, Maine, USA
- 08:40 - 09:00am: Stochastic Simulation Algorithms for Chemical Reactions
Tae-Hyuk Ahn, Yang Cao, and Layne T. Watson
Virginia Polytechnic Institute and State University, USA
- 09:00 - 09:20am: A Full Dimensional Numerical Study of Pulsatile Human Blood Flow
in Aortic Arch
Renat A. Sultanov, Dennis Guster, Brent Engelbrekt and
Richard Blankenbecler; St. Cloud State University, USA
- 09:20 - 09:40am: Long-Term HIV Dynamics: Mathematical Modeling and Optimal Control
M. M. Hadjiandreou, R. Conejeros, V. S. Vassilidis, and D. I. Wilson
University of Cambridge, UK
- 09:40 - 10:00am: No Tale in The Tail
Dayananda Sagar Gangadharaiiah and Sridhar Ramachandran
Indiana University Southeast, New Albany, Indiana, USA
Wright State University, Dayton, Ohio, USA
- 10:00 - 10:20am: FREE SLOT
- 10:20 - 10:40am: BREAK**

**SESSION 22-BIOCOMP: (CONCURRENT SESSION with 26-BIOCOMP)
MEDICAL DIAGNOSTIC TOOLS AND METHODS
Chair: Dr. Diana Magalhaes de Oliveira
Universidade Estadual do Ceara, Brazil
July 17, 2008 (Thursday); 10:40am - 12:20pm
(LOCATION: Ballroom 5)**

- 10:40 - 11:00am: Observation and Reporting Experiments Undertaken in the Development of an Image Description Language for the Reporting by Pathologists of the Grading of Cancers
Jon Plumley, Richard A. Gatward, Alison G. Todman, Raouf N. G. Naguib, and Mark K. Bennett
Coventry University, United Kingdom
Newcastle upon Tyne Hospitals, United Kingdom
- 11:00 - 11:20am: MATCH: A Decision Support System for Integration of Biomedical Data
Jawed Siddiqi, Babak Akhgar, Sally Atkinson, Alicia Grudz, Alexandra Ihatowicz, Massimo and Lorenzo, and Peter Scriven
Sheffield Hallam University, Sheffield, United Kingdom
Fondazione IOM, Italy
Royal Hallamshire Hospital, Sheffield, United Kingdom
- 11:20 - 11:40am: FREE SLOT
- 11:40 - 12:00pm: Recirculation in Vascular Access for Hemodialysis Treatment by Employ the On-Line Mesuring System of Urea in Blood
Gustavo Adolfo Martinez
Military Hospital Center, Mexico City
- 12:00 - 12:20pm: FREE SLOT
- 12:20 - 01:00pm: **LUNCH (On Your Own)**

SESSION 23-BIOCOMP: (CONCURRENT SESSION with 26-BIOCOMP)**STRUCTURE AND DYNAMICS OF MACRO MOLECULES + STRUCTURE ALIGNMENT I****Chair: Prof. Kevin Daimi, University of Detroit Mercy, Michigan****July 17, 2008 (Thursday); 01:00pm - 03:00pm****(LOCATION: Ballroom 5)**

- 01:00 - 01:20pm: Inverse Protein Folding in 3D Hexagonal Prism Lattice Under HP Model
Arvind Gupta, Alireza Hadj Khodabakhshi, Jan Manuch, and Arash Rafiey
Simon Fraser University, BC, Canada
- 01:20 - 01:40pm: Noise Tolerance of Universal Similarity Metric Applied to Protein
Contact Map Comparison in Two Dimensions
Sara Rahmati and Janice Glasgow; Queen's University, Canada
- 01:40 - 02:00pm: Protein Fold Family Recognition From Unassigned Residual
Dipolar Coupling Data
Rishi Mukhopadhyay, Paul Shealy, and Homayoun Valafar
University of South Carolina, Columbia, South Carolina, USA
- 02:00 - 02:20pm: A New Algorithm for RNA Secondary Structure Prediction and Fast
Method for Prediction of Simple H-type Pseudoknots
Oyun-Erdene Namsrai and Keun Ho Ryu
Chungbuk National University, Korea
- 02:20 - 02:40pm: Automated Assignment of Backbone Resonances Using Residual
Dipolar Couplings Acquired from a Protein with Known Structure
P. Shealy, R. Mukhopadhyay, S. Smith, and H. Valafar
University of South Carolina, Columbia, South Carolina, USA
- 02:40 - 03:00pm: Bivariate Estimator for cDNA Microarray Images Using Complex Wavelets
Tamanna Howlader and Yogendra P. Chaubey
Concordia University, Montreal, Quebec, Canada

03:00 - 03:40pm: **DISCUSSION SESSION C-BIOCOMP (Refreshments will be available)**
July 17, 2008 (Thursday)
(LOCATION: Hallways - Ballrooms 1-5)

- 0. Analysis of Microarray Titration Experiments
 Ionut Bebu, Francoise Seillier-Moiseiwitsch and Hongfang Liu
 Georgetown University, USA
- 0. Platescale: The Birthday Problem Applied to Single Molecule PCR
 Chris Stowers and Erik Boczko; Vanderbilt University, USA
- 0. A Strategy for High Throughput Microarray Oligo Probe Design Using
 454 and Sanger Sequencing Data of Eisenia Fetida Expressed Sequence
 Tags
 Ping Gong, Mehdi Pirooznia, Youping Deng, Xin Guan, Chaoyang Zhang,
 Chun Liang, and Edward J. Perkins
 SpecPro Inc., USA; University of Southern Mississippi, USA;
 Miami University, USA
- 0. BindN+ for Improved Prediction of DNA or RNA Binding Residues in
 Protein Sequences Using Evolutionary Information
 Liangjiang Wang; Clemson University, USA
- 0. Statistical Analysis on Detecting Signals of Adverse Drug Events
 with Drug-Drug Interactions
 Yu-Ting Huang, Shih-Fang Lin, and Von-Wun Soo
 National Tsing Hua Univ., Taiwan; National Univ. of Kaohsiung, Taiwan
- 0. Development of a Human Arm-Liked Robotic Surgical System with
 Force Measurement for Laparoscopic Surgery
 Ki-Young Kim, Ho-Seok Song and Jung-Ju Lee; KAIST, Korea
- 0. Dynamic Graph-based Relational Learning of Temporal Patterns in
 Biological Networks Changing over Time
 Chang Hun You, Lawrence B. Holder and Diane J. Cook
 Washington State University, USA
- 0. A Stepwise Generalization Method for Extracting Minimum
 Generalized Set of Mismatch Clusters
 Hiroaki Kimura, Hajime Kitakami, Kotaro Araki and Keiichi Tamura
 Hiroshima City University, Japan
- 0. A Robust Network Alignment Algorithm for Detecting Evolutionarily
 Conserved Networks and Protein Complexes Across Species
 Yu-Chun Lin, Hsiang-Yuan Yeh, Cheng-Yu Yeh and Von-Wun Soo
 National Tsing Hua University, Taiwan
- 0. A Case Study of Genetic influence via Principal Component
 Analysis and Bayesian Factor Analysis
 Gaolin Zheng, Tonny Sangutei and Yingjun Cao
 North Carolina Central University, USA
- 0. Fuzzy Ontology Based Querying
 Ana Aguilera, Leonid Tineo, and Harold Vasquez
 Universidad de Carabobo, Venezuela

**SESSION 24-BIOCOMP: (CONCURRENT SESSION with 27-BIOCOMP)
STRUCTURE AND DYNAMICS OF MACRO MOLECULES + STRUCTURE ALIGNMENT II
Chair: Dr. Qiang Cheng, Southern Illinois University, USA
July 17, 2008 (Thursday); 03:40pm - 05:40pm
(LOCATION: Ballroom 5)**

- 03:40 - 04:00pm: Blueprint for an Algorithm for Conformational Transformation Tolerant Search Through a Database of Protein Structures
I. Mihalek; Bioinformatics Institute, ASTAR, Singapore
- 04:00 - 04:20pm: Molecular Dynamics Simulations of Folding and Insertion of the Ebola Virus Fusion Peptide into a Membrane Bilayer
Mark A. Olson, In-Chul Yeh, and Michael S. Lee
Institute of Infectious Diseases, USA
- 04:20 - 04:40pm: Analysis of Protein-Ligand Interactions Using Localized Stereochemical Features
Reetal Pai, James C. Sacchettini, and Thomas R. Ioerger
Texas A&M University, USA
- 04:40 - 05:00pm: New Algorithm and Web Server for Finding Proteins with Similar 3D Structures
Zaixin Lu, Zhiyu Zhao, Sergio Garcia, and Bin Fu
University of Texas Pan American, USA
- 05:00 - 05:20pm: GIPSCo: A Method for Comparison of Protein Structures Based on Geometric Invariants
Sandeep Deshmukh, Aniket Dalal, and Pramod P. Wangikar
Indian Institute of Technology, India
- 05:20 - 05:40pm: FREE SLOT

**SESSION 25-BIOCOMP: (CONCURRENT SESSION with 27-BIOCOMP)
BIOMOLECULAR PATHWAYS AND SYSTEM BIOLOGY
Chair: Prof. Kevin Daimi, University of Detroit Mercy, Michigan
July 17, 2008 (Thursday); 05:40pm - 07:00pm
(LOCATION: Ballroom 5)**

- 05:40 - 06:00pm: Stochastic Stability Analysis of the Heat Shock Response in E. Coli
A. Meyer-Baese; Florida State University, USA
- 06:00 - 06:20pm: An Efficient Intelligent Binary Tree for Alternative Splice Site Detection
Minseo Park; University of Massachusetts, USA
- 06:20 - 06:40pm: Relating Microbial Community Structure to a Dominant Environmental
Variable in a Complex Environment: An Example from a Chromium
Contaminated Site
A. V. Palumbo, J. C. Schryver, S. M. Pfiffner, T. L. Marsh, and C. C.
Brandt
Oak Ridge National Laboratory, USA; The University of Tennessee, USA;
Michigan State University, USA
- 06:40 - 07:00pm: Optimize Observational Time Points to Maximize the Inferability of
Gene Networks
Frank Emmert-Streib and Andre S. Ribeiro
Queen's University Belfast, UK

**SESSION 26-BIOCOMP: (CONCURRENT SESSION with 22-BIOCOMP and 23-BIOCOMP)
 PHYLOGENETIC RECONSTRUCTION AND MOLECULAR EVOLUTION
 Chair: Dr. Mohammed Yeasin, University of Memphis, USA
 July 17, 2008 (Thursday); 11:40am - 03:00pm
 (LOCATION: Ballroom 1)**

- 11:40 - 12:00pm: Inferring Functional Linkage from Residue Level Co-Evolution Information
 Roger A. Craig, Keyur Malaviya, Krishna Balasubramanian, and Li Liao
 University of Delaware, Newark, Delaware, USA
- 12:00 - 12:20pm: Incomparability of Results Between Phylogenetic Search Programs
 Kenneth Sundberg, Hyrum Carroll, Quinn Snell, and Mark Clement
 Brigham Young University, Provo, Utah, USA
- 12:20 - 01:00pm: LUNCH (On Your Own)**
- 01:00 - 01:20pm: An Integrative Approach to Phylogenetic Inference
 P. Wang, B. B. Zhou, and A. Y. Zomaya
 University of Sydney, NSW, Australia
- 01:20 - 01:40pm: Major Factors of Protein Evolution Revealed by Eigenvalue
 Decomposition Analysis
 Xin Liu, Li-Mei Zhang, Jun Yin, and Ya-Pu Zhao
 Chinese Academy of Sciences, Beijing, P. R. China
 Beijing Jiaotong University, Beijing, P. R. China
- 01:40 - 02:00pm: Computing the Mixture Distance Between Mixture Trees
 Chen-Hui Lin and Justie Su-Tzu Juan
 National Chi Nan University, Nantou, Taiwan
- 02:00 - 02:20pm: A Near ME ML Phylogenetic Reconstruction Method
 P. Wang, B. B. Zhou, P. Pang, and A. Y. Zomaya
 University of Sydney, NSW, Australia
- 02:20 - 02:40pm: Does Nucleotide Compositional Bias Explain Amino Acid
 Usage in Viral Genomes?
 Rishi Mukhopadhyay and John R. Rose
 University of South Carolina, Columbia, South Carolina, USA
- 02:40 - 03:00pm: FREE SLOT

**03:00 - 03:40pm: DISCUSSION SESSION C-BIOCOMP (Refreshments will be available)
July 17, 2008 (Thursday)
(LOCATION: Hallways - Ballrooms 1-5)**

SESSION 27-BIOCOMP: (CONCURRENT SESSION with 24-BIOCOMP and 25-BIOCOMP)

GENE IDENTIFICATION AND CLUSTERING

**Chairs: Jonathan L. Lustgarten and Lavanya Devi Golagani
University of Pittsburgh School of Medicine, Pittsburgh, PA, USA
Andhra University, India**

**July 17, 2008 (Thursday); 03:40pm - 06:20pm
(LOCATION: Ballroom 1)**

- 03:40 - 04:00pm: Exploring Transcriptional Modules by Integrative Gene Clustering
Guided by Transcription Factor Binding Information
Ting Gong, Jianhua Xuan, Rebecca B. Riggins, Yue Wang,
Eric P. Hoffman, and Robert Clarke
Virginia Polytechnic Institute and State University, Virginia, USA
Georgetown University School of Medicine, Washington, DC, USA
Children' National Medical Center, Washington, DC, USA**
- 04:00 - 04:20pm: Algorithms for Designing the Minimal Set of Multiplexed Degenerate
Universal Tagged Primers for RNA Virus Detection
Jian Song, Jason Gans, Murray Wolinsky, Po-E Li, Emily Curd,
Chris Detter and Hong Cai
Biosecurity and Public Health (B-7), Los Alamos National Lab.,
New Mexico, USA; Genomics Science/Joint Genome Institute (B-6),
Los Alamos National Lab., New Mexico, USA; Center for Tropical Research,
University of California, Los Angeles, CA, USA**
- 04:20 - 04:40pm: Mining Intronic Sequence Features of Splice Sites with
Depth-Breadth Fused Codon Analyses
Sing-Wu Liou and Yin-Fu Huang
National Yunlin University of Science and Technology, Yunlin, Taiwan**
- 04:40 - 05:00pm: Stochastic Context Free Grammar for RNA Modeling: An Overview
Muhammed Al-Mulhem
King Fahd University of Petroleum and Minerals, Dhahran, Saudi Arabia**
- 05:00 - 05:20pm: Mutual Information Measure for Distinguishing Coding and
Non-Coding DNA Sequences
John R. Rose and Achraf El Allali
University of South Carolina, Columbia, South Carolina, USA**
- 05:20 - 05:40pm: Data Mining Pathogen Genomes Using GeneOrder and CoreGenes:
Gene Order, Synteny, and Proteomes
Padmanabhan Mahadevan and Donald Seto
George Mason University, USA**
- 05:40 - 06:00pm: Use of Nucleotide Genomic Signals in the Analysis of
Variability and Inserts in Prokaryote Genomes
Paul Dan Cristea and Rodica Aurora Tuduce
Politehnica University of Bucharest, Romania**
- 06:00 - 06:20pm: TandemXP - A Computational Approach to Finding Approximate
Tandem Repeats in Genomic Sequences
Avinash Shankaranarayanan and Christine Amaldas
Auckland University of Technology, Auckland, New Zealand**

CDES'08 CONFERENCE SCHEDULE

The 2008 International Conference on Computer Design

Monte Carlo Resort, Las Vegas, Nevada, July 14-17, 2008

Note 1:

There are a number of other sessions (not listed as part of CDES'08 schedule) that are of significant interest to CDES conference participants (sessions belonging to other joint conferences in this event.) Therefore, you are encouraged to also check the schedules for other joint conferences. In particular, some sessions in PDPTA'08, ICWN'08, MSV'08, SAM'08, ESA'08, FECS'08, CIC'08, and ERSA'08, discuss topics that are within the scope of CDES; these have been scheduled so that CDES attendees can also participate in them.

Note 2:

Each conference is divided into a number of topical sessions. These sessions are not necessarily scheduled in the same room/location. Therefore, conference attendees are to check the location of the session(s) they wish to attend - The conference room numbers appear in this document.

July 13

03:00 - 09:00pm: REGISTRATION (Second Floor, Conference Lobby; 1-5)

- 6:30am - 5:00pm: Registration (Second Floor, Conference Lobby: 1-5)
- 08:30 - 08:45am: WORLDCOMP'08 Opening Remarks
Prof. Hamid R. Arabnia (General Chair & Coordinator)
University of Georgia, Georgia, USA
(LOCATION: Lance Burton Theater)
- 08:45 - 09:35am: Keynote Lecture 1:
The Parallel Computing Landscape: A Berkeley View 2.0
Prof. David A. Patterson
Pardee Prof. of CS; Director, RAD Lab & Par Lab; Past
President, ACM; Member, National Academy of Engineering;
Member, National Academy of Sciences; Fellow of IEEE, ACM,
& AAAS; University of California at Berkeley.
(LOCATION: Lance Burton Theater)
- 09:40 - 10:25am: Keynote Lecture 2:
Searching in the "Real World"
Prof. Ophir Frieder
The Royden B. Davis, SJ, Chair in Interdisciplinary
Studies at Georgetown University; IITRI Chair Professor
of CS at Illinois Institute of Technology; Director,
Information Retrieval lab; Fellow of IEEE, ACM, and AAAS
(LOCATION: Lance Burton Theater)
- 10:30 - 11:15am: Keynote Lecture 3:
Achieving your Dreams
Anousheh Ansari
CEO, Chairman and Co-founder of Prodea Systems, Inc., USA;
Space Ambassador
(LOCATION: Lance Burton Theater)
- 11:15a - 12:00p: Keynote Lecture 4:
Dimensions in Reconfigurable Computing: A New Wave in
Electronic System Designs
Chris Phillips
Vice President of Engineering at ElementCXI, USA
(LOCATION: Lance Burton Theater)
- 12:00 - 01:20pm: LUNCH (On Your Own)

- SESSION 1-CDES: ALGORITHMS, CIRCUIT/HARDWARE DESIGN, AND TOOLS**
Chair: Dr. Srinivasa Vemuru, Ohio Northern University, USA
July 14, 2008 (Monday); 01:20pm - 03:20pm
(LOCATION: Titanium Room)
- 01:20 - 01:40pm: R-Tree: A Hardware Implementation
 Xiang Xiao, Tuo Shi, Pranav Vaidya and Jaehwan John Lee
 IUPUI, USA
- 01:40 - 02:00pm: A Survey of Input Sensing and Processing Techniques for
 Multi-Touch Systems
 Jacob Pennock and M. H. N. Tabrizi
 East Carolina University, Greenville, North Carolina, USA
- 02:00 - 02:20pm: CSPA: An Adder Faster Than Carry-Lookahead
 Ranando King and Hai Jiang
 Arkansas State University, Arkansas, USA
- 02:20 - 02:40pm: FREE SLOT
- 02:40 - 03:00pm: Finding Minimal ESCT Expressions for Boolean Functions with
 Weight of up to 7
 Dimitrios Voudouris, Marinos Sampson and George Papakonstantinou
 National Technical University of Athens, Greece
- 03:00 - 03:20pm: Design of Low-Area Rijndael Hardware Core
 Yong-Sung Jeon, Sang-Woo Lee, and Taek-Yong Nam
 Electronics and Telecommunications Research Institute, Korea
- 03:20 - 03:40pm: BREAK**
- 03:40 - 06:00pm: During this period, CDES'08 attendees are encouraged to participate
 in sessions belonging to PDPTA'08, ICWN'08, MSV'08, SAM'08,
 ESA'08, FECS'08, CIC'08, or ERSA'08. These sessions discuss
 topics that overlap the scope of CDES'08.
- 06:00 - 09:00pm: Tutorials (please see the list of tutorials)**
- 09:10 - 11:30pm: CONFERENCE RECEPTION DINNER & BANQUET KEYNOTE - July 14 (Monday)**
High Performance Computing and Computational Intelligence: Link
to the Translational Medicine and Personalized Healthcare
Dr. Jack Y. Yang and Dr. Mary Qu Yang
Harvard University, Massachusetts, USA and
National Human Genome Research Institute, NIH, Bethesda, USA
(LOCATION: Ballrooms 1-5)

6:45am - 5:00pm: Registration (Second Floor, Conference Lobby: 1-5)

SESSION 2-CDES: HIGH-PERFORMANCE SYSTEMS AND DESIGN ISSUES + APPLICATIONS + TOOLS/OS
Chair: Dr. Lalit Kumar Awasthi, National Institute of Technology, India
July 15, 2008 (Tuesday); 08:00am - 10:00am
(LOCATION: Titanium Room)

08:00 - 08:20am: A Specification Methodology for the Optimal Layout of a 2-Stage Interconnect Bus for Massively Parallel Architectures
Gerd Pfeiffer and Manfred Schimmler
Christian-Albrechts-University Kiel, Germany

08:20 - 08:40am: A Quantum Algorithm for Finding Minimum Exclusive-Or Expressions for Multi-Output Incompletely Specified Boolean Functions
M. Sampson, D. Voudouris, and G. Papakonstantinou
National Technical University of Athens, Greece

08:40 - 09:00am: FREE SLOT

09:00 - 09:20am: Nanowire Crossbar PLA with Adaptive Variable Redundancy
Mandar Vijay Joshi and Waleed K. Al-Assadi
Missouri University of Science and Technology, USA

09:20 - 09:40am: Nanocompilation for the Cell Matrix Architecture
Thomas Way, Rushikesh Katikar, and Purushotham Ch
Villanova University, Villanova, PA, USA

09:40 - 10:00am: Scalable Directory Organization for Tiled CMP Architectures
Alberto Ros, Manuel E. Acacio, and Jose M. Garcia
Universidad de Murcia, Spain

10:00 - 10:20am: BREAK

SESSION 3-CDES: SIMULATION, MODELING, AND TESTING

Chair: Prof. Waleed K. Al-Assadi

Missouri University of Science and Technology, USA

July 15, 2008 (Tuesday); 10:20am - 11:00am

(LOCATION: Titanium Room)

10:20 - 10:40am: High-Level Automatic Test Generation for VHDL Descriptions
F. Giamarchi, L. Capocchi, D. Federici, and P.A. Bisgambiglia
University of Corsica, France

10:40 - 11:00am: Single-Electron Tunneling Circuits for Image Processing Applications
Costa Gerousis and David Ball
Christopher Newport University, Virginia, USA

- SESSION 4-CDES: POWER AND ENERGY**
Chair: Prof. Waleed K. Al-Assadi
Missouri University of Science and Technology, USA
July 15, 2008 (Tuesday); 11:20am - 12:20p
(LOCATION: Titanium Room)
- 11:00 - 11:20am: Effective Dynamic Voltage and Frequency Scaling Algorithms
Mahmoud Abdel-Fattah and Khaled El-Ayat
American University in Cairo, Egypt; Microsoft Corporation
- 11:20 - 11:40am: Effects of Register File Organization on Leakage Power Consumption
Pradeep Nair, Savithra Eratne, and Eugene John
University of Texas at San Antonio, Texas, USA
- 11:40 - 12:00pm: How to Really Save Computer Energy?
Vasily Moshnyaga
Fukuoka University, Japan
- 12:00 - 12:20pm: FREE SLOT
- 12:20 - 01:20pm: LUNCH (On Your Own)
- 01:20 - 06:00pm: During this period, CDES'08 attendees are encouraged to participate in sessions belonging to PDPTA'08, ICWN'08, MSV'08, SAM'08, ESA'08, FECS'08, CIC'08, or ERSA'08. These sessions discuss topics that overlap the scope of CDES'08.
- 06:00 - 09:30pm: Tutorials (please see the list of tutorials)
-

6:45am - 5:00pm: Registration (Second Floor, Conference Lobby: 1-5)

08:00 - 11:20am: During this period, CDES'08 attendees are encouraged to participate in sessions belonging to PDPTA'08, ICWN'08, MSV'08, SAM'08, ESA'08, FECS'08, CIC'08, or ERSA'08. These sessions discuss topics that overlap the scope of CDES'08.

SESSION 5-CDES: ALGORITHMS, CIRCUIT/HARDWARE DESIGN, AND TOOLS
Chair: Dr. Srinivasa Vemuru, Ohio Northern University, USA
July 16, 2008 (Wednesday); 11:20am - 12:40pm
(LOCATION: Titanium Room)

11:20 - 11:40am: Bus Encoding Schemes Using Positive Correlated Switchings
in Subbuses: A Comparison
Srinivasa Vemuru, Ahmed Elkammar, and Norman Scheinberg
Ohio Northern University, Ada, Ohio, USA
The City College of the City University of New York, USA

11:40 - 12:00pm: Modeling Non-Iterated System Behavior with Chu Spaces
Lubomir Ivanov
Iona College, New Rochelle, New York, USA

12:00 - 12:20pm: Transcoding Load Distribution Policy for Wireless Mobile Clients
Dongmahn Seo, Heonguil Lee, and Inbum Jung
Kangwon National University, Korea

12:20 - 12:40pm: FREE SLOT

12:40 - 01:40pm: LUNCH (On Your Own)

- SESSION 6-CDES: MEMORY, STORAGE, FILES, AND DEVICE DRIVERS**
Chair: Dr. Srinivasa Vemuru, Ohio Northern University, USA
July 16, 2008 (Wednesday); 01:40pm - 03:00pm
(LOCATION: Titanium Room)
- 01:40 - 02:00pm: Low-Complexity Bypass Network Using Small RAM
Shinobu Miwa, Hironori Ichibayashi, Hidetsugu Irie,
Masahiro Goshima, Hironori Nakajo, and Shinji Tomita
Tokyo University of Agriculture and Technology, Japan
University of Tokyo, Japan; Kyoto University, Japan
- 02:00 - 02:20pm: A User-Space Device Driver Framework
William M. Grim, Morgan Stanley, and Stephen A. Blythe
Southern Illinois University - Edwardsville, USA
- 02:20 - 02:40pm: A Multi-Block Interleaving Structure for NAND Flash Memory Storage
Jong-Min Jeong, Seung-Ho Park, Jung-Wook Park, Shin-Dug Kim,
and Charles Weems
Yonsei University, Seoul, Republic of Korea
University of Massachusetts, Amherst, Massachusetts, USA
- 02:40 - 03:00pm: Capturing Dynamic Memory Structures
Martin Uhl
Technische Universitat Munchen, Munchen, Germany

**03:00 - 03:40pm: DISCUSSION SESSION A-CDES (Refreshments will be available)
July 16, 2008 (Wednesday)
(LOCATION: Hallways - Ballrooms 1-5)**

- O. Analysis and Modeling of Substrate Noise in Domino CMOS Circuits
Sagar Gosavi and Waleed K. Al-Assadi
Missouri University of Science and Technology, Missouri, USA
- O. High Performance Cache
Oscar Camacho, Luis A. Villa V., and Osvaldo Espinosa
National Polytechnic Institute, Mexico
- O. Time-Domain Analysis of VLSI Interconnects Considering Oscillatory
Inputs
Rohit Sharma, Vivek Kumar Sehgal, Nitin, S. Rawat, and V. Kapoor
Jaypee University of Information Technology, India
- O. An Approach for the Delay Simulation of D-Inverter in C-Ternary Logic
Circuits
Thanasin Bunnam and Arthit Thongtak
Chulalongkorn University, Bangkok, Thailand

03:40 - 06:00pm: During this period, CDES'08 attendees are encouraged to participate in sessions belonging to PDPTA'08, ICWN'08, MSV'08, SAM'08, ESA'08, FECS'08, CIC'08, or ERSA'08. These sessions discuss topics that overlap the scope of CDES'08.

06:00 - 09:30pm: Tutorials (please see the list of tutorials)

08:00a - 05:00p: During this period, CDES'08 attendees are encouraged to participate in sessions belonging to PDPTA'08, ICWN'08, MSV'08, SAM'08, ESA'08, FECS'08, CIC'08, or ERSA'08. These sessions discuss topics that overlap the scope of CDES'08.

CGVR'08 CONFERENCE SCHEDULE

The 2008 International Conference on Computer Graphics and Virtual Reality

Monte Carlo Resort, Las Vegas, Nevada, July 14-17, 2008

Note 1:

There are a number of other sessions (not listed as part of CGVR'08 schedule) that are of significant interest to CGVR conference participants (sessions belonging to other joint conferences in this event.) Therefore, you are encouraged to also check the schedules for other joint conferences. In particular, some sessions in ICWN'08, IPCV'08, MSV'08, ICOMP'08, SWWS'08, ESA'08, and FECS'08, discuss topics that are within the scope of CGVR; these have been scheduled so that CGVR attendees can also participate in them.

Note 2:

Each conference is divided into a number of topical sessions. These sessions are not necessarily scheduled in the same room/location. Therefore, conference attendees are to check the location of the session(s) they wish to attend - The conference room numbers appear in this document.

July 13

03:00 - 09:00pm: REGISTRATION (Second Floor, Conference Lobby; 1-5)

- 6:30am - 5:00pm: Registration (Second Floor, Conference Lobby: 1-5)
- 08:30 - 08:45am: WORLDCOMP'08 Opening Remarks
Prof. Hamid R. Arabnia (General Chair & Coordinator)
University of Georgia, Georgia, USA
(LOCATION: Lance Burton Theater)
- 08:45 - 09:35am: Keynote Lecture 1:
The Parallel Computing Landscape: A Berkeley View 2.0
Prof. David A. Patterson
Pardee Prof. of CS; Director, RAD Lab & Par Lab; Past
President, ACM; Member, National Academy of Engineering;
Member, National Academy of Sciences; Fellow of IEEE, ACM,
& AAAS; University of California at Berkeley.
(LOCATION: Lance Burton Theater)
- 09:40 - 10:25am: Keynote Lecture 2:
Searching in the "Real World"
Prof. Ophir Frieder
The Royden B. Davis, SJ, Chair in Interdisciplinary
Studies at Georgetown University; IITRI Chair Professor
of CS at Illinois Institute of Technology; Director,
Information Retrieval lab; Fellow of IEEE, ACM, and AAAS
(LOCATION: Lance Burton Theater)
- 10:30 - 11:15am: Keynote Lecture 3:
Achieving your Dreams
Anousheh Ansari
CEO, Chairman and Co-founder of Prodea Systems, Inc., USA;
Space Ambassador
(LOCATION: Lance Burton Theater)
- 11:15a - 12:00p: Keynote Lecture 4:
Dimensions in Reconfigurable Computing: A New Wave in
Electronic System Designs
Chris Phillips
Vice President of Engineering at ElementCXI, USA
(LOCATION: Lance Burton Theater)
- 12:00 - 01:00pm: LUNCH (On Your Own)
- 01:00 - 06:00pm: During this period, CGVR'08 attendees are encouraged to participate
in sessions belonging to ICWN'08, IPCV'08, MSV'08, ICOMP'08,
SWWS'08, ESA'08, or FECS'08. These sessions discuss topics
that overlap the scope of CGVR'08.
- 06:00 - 09:00pm: Tutorials (please see the list of tutorials)
- 09:10 - 11:30pm: CONFERENCE RECEPTION DINNER & BANQUET KEYNOTE - July 14 (Monday)
High Performance Computing and Computational Intelligence: Link
to the Translational Medicine and Personalized Healthcare
Dr. Jack Y. Yang and Dr. Mary Qu Yang
Harvard University, Massachusetts, USA and
National Human Genome Research Institute, NIH, Bethesda, USA
(LOCATION: Ballrooms 1-5)
-

6:45am - 5:00pm: Registration (Second Floor, Conference Lobby: 1-5)

08:00 - 11:20am: During this period, CGVR'08 attendees are encouraged to participate in sessions belonging to ICWN'08, IPCV'08, MSV'08, ICOMP'08, SWWS'08, ESA'08, or FECS'08. These sessions discuss topics that overlap the scope of CGVR'08.

11:20a - 12:20p: LUNCH (On Your Own)

SESSION 1-CGVR: VIRTUAL REALITY
Chair: Dr. Leon Deligiannidis, Wentworth Institute of Technology, USA
July 15, 2008 (Tuesday); 12:20pm - 01:40pm
(LOCATION: Titanium Room)

12:20 - 12:40pm: FREE SLOT

12:40 - 01:00pm: Virtual Reality Technology Assisting Communication Apprehension
Max M. North, Jeremy Hill, Ainonehi Aikhuele, and Sarah M. North
Southern Polytechnic State University, Marietta, Georgia, USA;
Clark Atlanta University, Atlanta, Georgia, USA

01:00 - 01:20pm: Generating Smooth Virtual Reality Maps Using 3D Building Blocks
Bradley J. Wimpey and Walter D. Potter
University of Georgia Athens, USA

01:20 - 01:40pm: A New Approach for Adding Facial Expression to Neutral Face
Ripon Kumar Saha, Naresh Chandra Biswas and Rameswar Debnath
Khulna University, Bangladesh

SESSION 2-CGVR: VIRTUAL ENVIRONMENTS

Chair: Dr. Leon Deligiannidis, Wentworth Institute of Technology, USA
July 15, 2008 (Tuesday); 01:40pm - 03:00pm
(LOCATION: Titanium Room)

- 01:40 - 02:00pm: River and Coastal Action in Automatic Terrain Generation
Soon Tee Teoh
San Jose State University, San Jose, California, USA
- 02:00 - 02:20pm: Adapting the Storage of Large Medical Datasets to Enable Interactive Display
Anupam Agrawal, Josef Kohout, Gordon J. Clapworthy,
Nigel J. B. McFarlane, Feng Dong, Marco Viceconti,
Fulvi Taddei, and Debora Testi
University of Bedfordshire, Luton, UK
Istituti Ortopedici Rizzoli, Bologna, Italy
BioComputing Competence Centre, SCS s.r.l., Italy
- 02:20 - 02:40pm: Visualizing Platonic Solids with Shading, Colour Interpolation and Textures Using OpenGL
A. Arokiasamy
Eastern Mediterranean University, Turkey
- 02:40 - 03:00pm: Interactive Tracking of Three-Dimensional Critical Points in Unsteady, Large-Scale CFD Datasets
Andreas Gerndt, Torsten Kühlen, and Carolina Cruz-Neira
Louisiana Immersive Technologies Enterprise, USA;
Aachen Univ., Germany; Univ. of Louisiana at Lafayette, USA

**03:00 - 03:40pm: DISCUSSION SESSION A-CGVR (Refreshments will be available)
July 15, 2008 (Tuesday)
(LOCATION: Hallways - Ballrooms 1-5)**

- O. Simulation and Certification for Collision Between Satellites in Solar System Celestial Model
Guofeng Qin, Qiyang Li, and Xiuying Deng
Tongji University, Shanghai, P. R. China
Chinese National CAD Application Technology Training Center for Engineering Design, Shanghai, P. R. China
- O. Development of a Cost Effective, High Quality 3D Screen for 3D Visualization Without Attachments to the Eyes or to the Monitor
M. N. Rao, M. Karthikeyan, T. Geethanjali, E. Arun Sabastin, and J. Karthik; St. Josephs College of Engineering & Tech., India
- O. 3D Model Retrieval Using Convex Hull and Curvature
Ami Kim, JuWhan Song, and OuBong Gwon
Chonbuk National University, Korea; Jeonju University, Korea
- O. Decoupled Agent Architecture for Virtual Operating Room Training Simulations
Emre Baydogan, Lee A Belfore II, and Saurav Mazumdar
Old Dominion University, USA
- O. Matrix Operations Simulator Application in Java Using OpenGL
Thomas Sullivan and Benjamin A. Ring
United States Military Academy, USA
- O. Accelerating Motion Compensation of H.264 Video Decoder with GPU
Xiao Yuan, Jianbin Song, Bo Li, and Qinglei Meng
Beihang University, P. R. China

03:40 - 06:00pm: During this period, CGVR'08 attendees are encouraged to participate in sessions belonging to ICWN'08, IPCV'08, MSV'08, ICOMP'08, SWS'08, ESA'08, or FECS'08. These sessions discuss topics that overlap the scope of CGVR'08.

06:00 - 09:30pm: Tutorials (please see the list of tutorials)

6:45am - 5:00pm: Registration (Second Floor, Conference Lobby: 1-5)

SESSION 3-CGVR: SIMULATION AND ANIMATION

Chair: Dr. Leon Deligiannidis, Wentworth Institute of Technology, USA
July 16, 2008 (Wednesday); 08:00am - 09:20am
(LOCATION: Titanium Room)

08:00 - 08:20am: Fatal Behaviors - Simulation of Suicide Bombings
Zeeshan-ul-hassan Usmani, Muhammad Salman Khan, Muhammad Noman Zafar
Florida Inst. of Tech., Melbourne, Florida, USA;
Rutgers University, New Jersey, USA; GIFT University, Pakistan

08:20 - 08:40am: FREE SLOT

08:40 - 09:00am: Modeling Real-World in Software: Coping with Coordinate Systems
Farahzad Behi and Jonathan Jaynes
Embry Riddle Aeronautical University, USA

09:00 - 09:20am: Making Two-Dimensional Animations in Alice
H. Keith Edwards, Sangmi Park, and Joon Hyun Kim
University of Hawaii at Hilo, Hawaii, USA

- SESSION 4-CGVR: ALGORITHMS + APPLICATIONS**
Chair: Dr. Leon Deligiannidis, Wentworth Institute of Technology, USA
July 16, 2008 (Wednesday); 09:20am - 11:40am
(LOCATION: Titanium Room)
- 09:20 - 09:40am: A Graph Drawing Algorithm for the Game of Sprouts
Wayne Brown and Leemon Baird
The United States Air Force Academy, USAF Academy, Colorado, USA
- 09:40 - 10:00am: Algorithms for the Automatic Generation of Urban Streets
and Buildings
Soon Tee Teoh; San Jose State University, California, USA
- 10:00 - 10:20am: Turtle Plots of Integer Sequences
Kam Kong
Delaware State University, USA
- 10:20 - 10:40am: BREAK**
- 10:40 - 11:00am: A New 2-Subdivision Scheme for Arbitrary Surface Design
Yonggao Yang and Jian-Ao Lian
Prairie View A&M University, USA
- 11:00 - 11:20am: Use of Virtual Environments and Selection of Measurement Parameters
for the Application in the Phobia Treatment
Mauricio Plazas Torres
Universidad Libre de Colombia, Bogota, Colombia
- 11:20 - 11:40am: FREE SLOT
- 11:40a - 01:00p: LUNCH (On Your Own)**
- 01:00 - 06:00pm: During this period, CGVR'08 attendees are encouraged to participate
in sessions belonging to ICWN'08, IPCV'08, MSV'08, ICOMP'08,
SWWS'08, ESA'08, or FECS'08. These sessions discuss topics
that overlap the scope of CGVR'08.**
- 06:00 - 09:30pm: Tutorials (please see the list of tutorials)**
-

09:00a - 05:00p: During this period, CGVR'08 attendees are encouraged to participate in sessions belonging to ICWN'08, IPCV'08, MSV'08, ICOMP'08, SWWS'08, ESA'08, or FECS'08. These sessions discuss topics that overlap the scope of CGVR'08.

CIC'08 CONFERENCE SCHEDULE

The 2008 International Conference on Communications in Computing

Monte Carlo Resort, Las Vegas, Nevada, July 14-17, 2008

Note 1:

There are a number of other sessions (not listed as part of CIC'08 schedule) that are of significant interest to CIC conference participants (sessions belonging to other joint conferences in this event.) Therefore, you are encouraged to also check the schedules for other joint conferences. In particular, some sessions in PDPTA'08, ICWN'08, ICOMP'08, SWWS'08, SAM'08, ESA'08, FECS'08, and ERSA'08, discuss topics that are within the scope of CIC; these have been scheduled so that CIC attendees can also participate in them.

Note 2:

Each conference is divided into a number of topical sessions. These sessions are not necessarily scheduled in the same room/location. Therefore, conference attendees are to check the location of the session(s) they wish to attend - The conference room numbers appear in this document.

July 13

03:00 - 09:00pm: REGISTRATION (Second Floor, Conference Lobby; 1-5)

- 6:30am - 5:00pm: Registration (Second Floor, Conference Lobby: 1-5)
- 08:30 - 08:45am: **WORLDCOMP'08 Opening Remarks**
Prof. Hamid R. Arabnia (General Chair & Coordinator)
University of Georgia, Georgia, USA
(LOCATION: Lance Burton Theater)
- 08:45 - 09:35am: **Keynote Lecture 1:**
The Parallel Computing Landscape: A Berkeley View 2.0
Prof. David A. Patterson
Pardee Prof. of CS; Director, RAD Lab & Par Lab; Past
President, ACM; Member, National Academy of Engineering;
Member, National Academy of Sciences; Fellow of IEEE, ACM,
& AAAS; University of California at Berkeley.
(LOCATION: Lance Burton Theater)
- 09:40 - 10:25am: **Keynote Lecture 2:**
Searching in the "Real World"
Prof. Ophir Frieder
The Royden B. Davis, SJ, Chair in Interdisciplinary
Studies at Georgetown University; IITRI Chair Professor
of CS at Illinois Institute of Technology; Director,
Information Retrieval lab; Fellow of IEEE, ACM, and AAAS
(LOCATION: Lance Burton Theater)
- 10:30 - 11:15am: **Keynote Lecture 3:**
Achieving your Dreams
Anousheh Ansari
CEO, Chairman and Co-founder of Prodea Systems, Inc., USA;
Space Ambassador
(LOCATION: Lance Burton Theater)
- 11:15a - 12:00p: **Keynote Lecture 4:**
**Dimensions in Reconfigurable Computing: A New Wave in
Electronic System Designs**
Chris Phillips
Vice President of Engineering at ElementCXI, USA
(LOCATION: Lance Burton Theater)
- 12:00 - 12:40pm: LUNCH (On Your Own)
- 12:40 - 06:00pm: During this period, CIC'08 attendees are encouraged to participate
in sessions belonging to PDPTA'08, ICWN'08, ICOMP'08, SWWS'08,
SAM'08, ESA'08, FECS'08, or ERSA'08. These sessions discuss
topics that overlap the scope of CIC'08.
- 06:00 - 09:00pm: Tutorials (please see the list of tutorials)
- 09:10 - 11:30pm: **CONFERENCE RECEPTION DINNER & BANQUET KEYNOTE - July 14 (Monday)**
**High Performance Computing and Computational Intelligence: Link
to the Translational Medicine and Personalized Healthcare**
Dr. Jack Y. Yang and Dr. Mary Qu Yang
Harvard University, Massachusetts, USA and
National Human Genome Research Institute, NIH, Bethesda, USA
(LOCATION: Ballrooms 1-5)
-

08:00a - 06:00p: During this period, CIC'08 attendees are encouraged to participate in sessions belonging to PDPTA'08, ICWN'08, ICOMP'08, SWWS'08, SAM'08, ESA'08, FECS'08, or ERSA'08. These sessions discuss topics that overlap the scope of CIC'08.

06:00 - 09:30pm: Tutorials (please see the list of tutorials)

08:00a - 06:00p: During this period, CIC'08 attendees are encouraged to participate in sessions belonging to PDPTA'08, ICWN'08, ICOMP'08, SWWS'08, SAM'08, ESA'08, FECS'08, or ERSA'08. These sessions discuss topics that overlap the scope of CIC'08.

06:00 - 09:30pm: Tutorials (please see the list of tutorials)

- SESSION 1-CIC: NETWORKING**
Chair: Poul E. Heegaard, Norwegian University of Science and Technology, Norway
July 17, 2008 (Thursday); 09:00am - 09:40am
(LOCATION: Titanium Room)
- 09:00 - 09:20am: The Telematics Contents Providing System Based on a User's Request Using DMB Network
Oh-Cheon Kwon, Jong-Woo Choi, Moonsoo Lee, and Hyun Suk Kim
Telematics & USN Research Division, ETRI, Korea
- 09:20 - 09:40am: A Study on Enhancements and Performance of Wide Area Networks
Victor Clincy, Xinhao Gu, and Mevlut Sasmaz
Kennesaw State University, Georgia, USA

SESSION 2-CIC: WIRELESS AND OPTICAL

**Chair: Prof. Kathy Liszka, The University of Akron, USA
July 17, 2008 (Thursday); 09:40am - 10:40am
(LOCATION: Titanium Room)**

09:40 - 10:00am: Study of Bluetooth Technology and Initial Research
Waqas ur Rehman Butt and Sohail Abbas
University of Engineering and Technology, Lahore, Pakistan

10:00 - 10:20am: Aerospace Telemetry
Bassam Shaer and Jay M. Lalik Sr.
University of West Florida, USA

10:20 - 10:40am: Radio Frequency Identification (RFID):Promising and Challenging
Implantation Perspective
Jihad Qaddour
Illinois State University, USA

10:40 - 11:00am: BREAK

- SESSION 3-CIC: SPECIAL SYSTEMS - VOICE, SPEECH, VEHICLE, BIO AND NEURO + CODES**
Chairs: Zeeshan-ul-hassan Usmani and Tala1 Naveed Puri
Florida Tech, Melbourne, USA
July 17, 2008 (Thursday); 11:00am - 12:00p
(LOCATION: Titanium Room)
- 11:00 - 11:20am: Distributed and Scalable Path Management by a System of Cooperating Ants
Vebjorn Kjeldsen, Otto J. Wittner and Poul E. Heegaard
Norwegian University of Science and Technology, Norway
- 11:20 - 11:40am: An Optimal Algorithm for Coding and Decoding Neville Codes
Xiaodong Wang and Yingjie Wu
Fuzhou University, Fuzhou, P. R. China
- 11:40 - 12:00pm: Self-Similarity in Message-Passing Parallel Processing Communication
Jeho Park, Shui F. Lam, and John E. Angus
Claremont Graduate University, Claremont, California, USA
California State University, Long Beach, California, USA
- 12:00 - 02:00pm: **LUNCH (On Your Own)**
- 02:00 - 03:00pm: **During this period, CIC'08 attendees are encouraged to participate in sessions belonging to PDPTA'08, ICWN'08, ICOMP'08, SWWS'08, SAM'08, ESA'08, FECS'08, or ERSA'08. These sessions discuss topics that overlap the scope of CIC'08.**

**03:00 - 03:40pm: DISCUSSION SESSION A-CIC (Refreshments will be available)
July 17, 2008 (Thursday)
(LOCATION: Hallways - Ballrooms 1-5)**

- 0. WAP Based Remote Controlling and Monitoring System
Mahdi Nisirat; Applied University, Amman, Jordan
- 0. Performance Evaluation of Optical Multicast Switch Architectures
Using Optical Splitters
Won-Hyuk Yang, Kyeong-Eun Han, Kyoung-Min Yoo, Hwan Heo,
Bingbing Li, and Young-chon Kim
Chonbuk National University, Korea
- 0. Using Gateway to Implement Hierarchical Recovery Protocol in
Wide Area Network
Qin Jie, Li Guoping, and Ma Min
Henan University of Technology, P. R. China;
National University of Defense Technology, P. R. China
- 0. EEVAR: Routing Protocol for Wireless Sensor Networks
Dongmin Choi, Sangman Moh, and Ilyong Chung
Chosun University, Gwangju, Korea
- 0. Flow-level Traffic Modeling for Creating a Traffic Generator
Sang Bin Park, Seongjin Ahn, Youngsong Mun, and Jin Wook Chung
Sungkyunkwan University, Korea
- 0. An Algorithm for Computing the Best-Performing Path and Path
Recovery Procedure for Multimedia Applications in a Computer Network
Rajiv Kumar, Ankit Bhatt, Yuvraj Singh, Varun Uppal, Mandeep Rawat
Jaypee University of Informations and Technology, India
- 0. Optimum Path Computation Algorithms for Multimedia and Real Time
Services Over IP-Networks
Rajiv Kumar, Yuvraj Singh, Varun Uppal, Mandeep Rawat, Ankit Bhatt
Jaypee University of Informations and Technology, India
- 0. AIS Based Network Anomaly Detection Using Fuzzy Number Theory
Kyoung-Min Yoo, Sang-Yeol Lee, Won-Hyuk Yang, Won-Ho So, Young-Chon Kim
Chonbuk National University, Korea
- 0. Active Networks: A Comparative Study
Marcel Karam
American University of Beirut, Beirut, Lebanon
- 0. Research on an Adaptive WKA Method in Secure Multicast
Xu Yong, Zhao Kechun, and Zhang Wei
Anhui Normal University, P. R. China
- 0. Trade-Offs Between Optimality and Validity in Probabilistic
Routing for Mobile Multi-Hop Networks
Hanan Idoudi, Abdelkettah Belghith, and Miklos Molnar
University of Manouba, Tunisia; IRISA, Campus de Beaulieu, France
- 0. Video Transmission and Transcoding in Active Networks
Joel Ramirez and Mario Siller
CINVESTAV del IPN, Mexico
- 0. Development A BR-DBA Algorithm for Improve Network Efficiency
Seung-Kun Lee, Jong-Wook Jang, and Moon-Han Bae
Dong-Eui University, Korea
- 0. The Potential for Autonomic Service Delivery Platforms
Maurice Mulvena, Giuseppe Valetto, Colm Hayden,
Richard McConnell, Agnieszka Lawrynowicz, Matthias Baumgarten
University of Ulster, UK; IBM T.J. Watson Research Center, USA;
Mobility Data Systems, UK
- 0. A Location Aided Fast Handoff Protocol For the Next Generation
Wireless Systems
Hatem Hamad, Ruba Salamah and Suhair Elkourid
Islamic University of Gaza, Palestine
- 0. An Active Network-Based Intrusion Response System
Nader Zaide, Hesham A. Elzouka, and Fatma Zada
Arab Academy for Science and Technology, Egypt

CSC'08 CONFERENCE SCHEDULE

The 2008 International Conference on Scientific Computing

Monte Carlo Resort, Las Vegas, Nevada, July 14-17, 2008

Note 1:

There are a number of other sessions (not listed as part of CSC'08 schedule) that are of significant interest to CSC conference participants (sessions belonging to other joint conferences in this event.) Therefore, you are encouraged to also check the schedules for other joint conferences. In particular, some sessions in PDPTA'08, GCA'08, BIOCOMP'08, MSV'08, CGVR'08, FECS'08, FCS'08, and ERSA'08, discuss topics that are within the scope of CSC; these have been scheduled so that CSC attendees can also participate in them.

Note 2:

Each conference is divided into a number of topical sessions. These sessions are not necessarily scheduled in the same room/location. Therefore, conference attendees are to check the location of the session(s) they wish to attend - The conference room numbers appear in this document.

July 13

03:00 - 09:00pm: REGISTRATION (Second Floor, Conference Lobby; 1-5)

- 6:30am - 5:00pm: Registration (Second Floor, Conference Lobby: 1-5)
- 08:30 - 08:45am: WORLDCOMP'08 Opening Remarks
Prof. Hamid R. Arabnia (General Chair & Coordinator)
University of Georgia, Georgia, USA
(LOCATION: Lance Burton Theater)
- 08:45 - 09:35am: Keynote Lecture 1:
The Parallel Computing Landscape: A Berkeley View 2.0
Prof. David A. Patterson
Pardee Prof. of CS; Director, RAD Lab & Par Lab; Past
President, ACM; Member, National Academy of Engineering;
Member, National Academy of Sciences; Fellow of IEEE, ACM,
& AAAS; University of California at Berkeley.
(LOCATION: Lance Burton Theater)
- 09:40 - 10:25am: Keynote Lecture 2:
Searching in the "Real World"
Prof. Ophir Frieder
The Royden B. Davis, SJ, Chair in Interdisciplinary
Studies at Georgetown University; IITRI Chair Professor
of CS at Illinois Institute of Technology; Director,
Information Retrieval lab; Fellow of IEEE, ACM, and AAAS
(LOCATION: Lance Burton Theater)
- 10:30 - 11:15am: Keynote Lecture 3:
Achieving your Dreams
Anousheh Ansari
CEO, Chairman and Co-founder of Prodea Systems, Inc., USA;
Space Ambassador
(LOCATION: Lance Burton Theater)
- 11:15a - 12:00p: Keynote Lecture 4:
Dimensions in Reconfigurable Computing: A New Wave in
Electronic System Designs
Chris Phillips
Vice President of Engineering at ElementCXI, USA
(LOCATION: Lance Burton Theater)
- 12:00 - 12:40pm: LUNCH (On Your Own)

**12:40 - 01:20pm: DISCUSSION SESSION A-CSC (Refreshments will be available)
July 14 (Monday)
(LOCATION: Hallways - Ballrooms 1-5)**

- 0. Tracking Control of Wheeled Mobile Robots Using a Receding Horizon Controller with Time-Delay
Yu Gao and Kil To Chong
Chonbuk National University Chonju, Korea
- 0. LQR Control for a Modified CD Motor Using Maple
Monica Patricia Arenas Correa; EAFIT University, Colombia
- 0. Analysis of a Modified Wien Bridge Using Maple
Valentina Londono Correa
EAFIT University, Medellin, Colombia
- 0. Computational Method for Solving System of First Kind Volterra Integral Equations
Prof. K. Maleknejad, R. Mollapourasl, and K. Nouri
Iran U. of Science & Tech., Iran; Islamic Azad Univ., Iran
- 0. LQR Control for a Multi-Inverted Pendulum Using Maple
Leidy Marcela Giraldo Castano
Eafit University, Medellin, Colombia

01:20 - 03:00pm: During this period, CSC'08 attendees are encouraged to participate in sessions belonging to PDPTA'08, GCA'08, BIOCAMP'08, MSV'08, CGVR'08, FECS'08, FCS'08, or ERSA'08. These sessions discuss topics that overlap the scope of CSC'08.

- SESSION 1-CSC: NOVEL APPLICATIONS AND ALGORITHMS + ENGINEERING PROBLEMS**
Chairs: Prof. Rajan Alex and Prof. Sanzheng Qiao
West Texas A&M University, USA
McMaster University, Canada
July 14, 2008 (Monday); 03:00pm - 04:40pm
(LOCATION: Platinum Room)
- 03:00 - 03:20pm:** New Algorithm for Optimization of Effect-Based Weapon-Target Pairings
 Zbigniew R. Bogdanowicz and Norman P. Coleman
 Armament Research, Development & Engineering Center, US Army, New Jersey, USA
- 03:20 - 03:40pm:** Fredholm Integral Analysis of Soft-Material Compression Data
 Joseph R. Feldkamp
 Global Science & Technology, Kimberly-Clark Corporation, USA
- 03:40 - 04:00pm:** Damage Detection in Composites Using Vibration Signatures
 K. Oruganti, M. Mehdizadeh, S. John, and I. Herzberg
 RMIT University, Bundoora, Victoria, Australia;
 Cooperative Research Centre for Advanced Composite Structures (CRC-ACS), Victoria, Australia
- 04:00 - 04:20pm:** Monte Carlo Approach to Generalized Level Crossings and Fractal Dimensions of Multiscale Fields with Application to Turbulence
 Haris J. Catrakis, Siarhei Piatrovich, Fazlul R. Zubair, Aaron P. Freeman, Jennifer Shockro, Adam J. Wachtor, Ryan C. Sokolowski, and David W. Gwozdz
 University of California, Irvine, California, USA
- 04:20 - 04:40pm:** A Tree-Based Hamiltonian for Fast Symplectic Integration
 Mark C. Lewis and Harold F. Levison
 Trinity University, San Antonio, Texas, USA;
 Southwest Research Institute, Boulder, Colorado, USA
- 04:40 - 06:00pm:** **During this period, CSC'08 attendees are encouraged to participate in sessions belonging to PDPTA'08, GCA'08, BIOCAMP'08, MSV'08, CGVR'08, FECS'08, FCS'08, or ERSA'08. These sessions discuss topics that overlap the scope of CSC'08.**
- 06:00 - 09:00pm:** Tutorials (please see the list of tutorials)
- 09:10 - 11:30pm:** CONFERENCE RECEPTION DINNER & BANQUET KEYNOTE - July 14 (Monday)
High Performance Computing and Computational Intelligence: Link to the Translational Medicine and Personalized Healthcare
Dr. Jack Y. Yang and Dr. Mary Qu Yang
Harvard University, Massachusetts, USA and
National Human Genome Research Institute, NIH, Bethesda, USA
(LOCATION: Ballrooms 1-5)
-

- 6:45am - 5:00pm: Registration (Second Floor, Conference Lobby: 1-5)**
- 08:00 - 10:20am: During this period, CSC'08 attendees are encouraged to participate in sessions belonging to PDPTA'08, GCA'08, BIOCOMP'08, MSV'08, CGVR'08, FECS'08, FCS'08, or ERSA'08. These sessions discuss topics that overlap the scope of CSC'08.**
- 10:20 - 10:40am: BREAK**
- SESSION 2-CSC: COMPUTATIONAL MODELS, SIMULATION, AND NOVEL METHODOLOGIES + HPC**
Chairs: Dr. William Spataro and Dr. Adrian Sfarti
University of Calabria, Italy
University of California, Berkeley, USA
July 15, 2008 (Tuesday); 10:40am - 01:00pm
(LOCATION: Platinum Room)
- 10:40 - 11:00am: Multicore Platforms for Scientific Computing: Cell BE and NVIDIA Tesla**
 Juan Fernandez, Manuel E. Acacio, Gregorio Bernabe,
 Jose L. Abellan, and Joaquin Franco
 Universidad de Murcia, Murcia, Spain
- 11:00 - 11:20am: Experimental Limits for the Verification of the Equivalence Principle**
 Adrian Sfarti
 University of California, Berkeley, California, USA
- 11:20 - 11:40am: The Tangherlini Theory Predictions for the Ives-Stillwell Experiment and for Waveguides**
 Adrian Sfarti
 University of California, Berkeley, California, USA
- 11:40 - 12:00pm: Hybrid Method to Predict Execution Time of Parallel Applications**
 Bernard Miegemolle and Thierry Monteil
 LAAS - CNRS, France
- 12:00 - 12:20pm: Ambiguity Degree and Its Arithmetic Operations**
 Rajan Alex
 West Texas A&M University, USA
- 12:20 - 12:40pm: An Algorithm for Solving Scaled Total Least Squares Problems**
 Sanzheng Qiao, Wei Xu, and Yimin Wei
 McMaster University, Canada; Fudan University, Shanghai, P.R. China
- 12:40 - 01:00pm: The Dirichlet Problem for the Laplace Equation in a Starlike Domain**
 Diego Caratelli and Paolo E. Ricci
 Universita di Roma, Roma, Italy
 Delft University of Technology, Delft, The Netherlands
- 01:00 - 02:00pm: LUNCH (On Your Own)**

02:00 - 03:00pm: During this period, CSC'08 attendees are encouraged to participate in sessions belonging to PDPTA'08, GCA'08, BIOCAMP'08, MSV'08, CGVR'08, FECS'08, FCS'08, or ERSA'08. These sessions discuss topics that overlap the scope of CSC'08.

03:00 - 03:40pm: DISCUSSION SESSION B-CSC (Refreshments will be available)
July 15, 2008 (Tuesday)
(LOCATION: Hallways - Ballrooms 1-5)

- O. Robust Numerical Windrow System Simulation for Decomposition of Organic Waste
 P. Ramasamy and C. Bokhoree
 University of Technology, Mauritius
- O. On the Interpolativeness of Discrete Legendre Functions
 Hyeong-Bin Cheong and Ja-Rin Park
 Pukyong National University, Korea
- O. Efficiency Factors of Cylindrical Porous Catalyzer, Using Computer Algebra
 Daniel-Esteban Sierra-Sosa
 EAFIT University, Medellin, Colombia
- O. Cubic B-Spline Interpolation Method for Singular Integral Equations with Logarithmic Singularities
 Moin Uddin, Sheo Kumar and A. L. Sangal
 Dr. B. R. Ambedkar National Institute of Technology, India
- O. Quadratic B-Spline Interpolation Method for Cauchy Type Singular Integral Equations with Generalised Kernels
 Moin Uddin, Sheo Kumar, and A. L. Sangal
 Dr. B. R. Ambedkar National Institute of Technology, Jalandhar, India
- O. Special Matrices Computations
 Zhao Chen; New York City College of Technology, USA

- SESSION 3-CSC: NOVEL APPLICATIONS AND ALGORITHMS + ENGINEERING PROBLEMS**
Chair: Dr. Zhao Chen, New York City College of Technology, USA
July 15, 2008 (Tuesday); 03:40pm - 06:20pm
(LOCATION: Platinum Room)
- 03:40 - 04:00pm: A Variable Step Scheme for Solving Ordinary Differential Equations
Adel N. Boules
University of North Florida, USA
- 04:00 - 04:20pm: Ising Games
Michael George and A. Ramirez
Southwestern College, Chula Vista, California, USA
- 04:20 - 04:40pm: Manufacturing Cells Formation in Group Technology
Jose Francisco Ferreira Ribeiro
University of Sao Paulo, Brazil
- 04:40 - 05:00pm: On the Random Walks of Geometrical Forms in Two-Dimensions
J. F. Nystrom
Ferris State University, Big Rapids, Michigan, USA
- 05:00 - 05:20pm: Generalized STFT for Simple and Efficient Time-Frequency Analysis
Andrey Khilko
Andrey Khilko Realtime Consulting, Redwood City, California, USA
- 05:20 - 05:40pm: A Gas-Kinetic BGK Solver for Two-Dimensional Turbulent Compressible Flow
Ong J. Chit, Ashraf A. Omar, Waqar Asrar, and Ahmad F. Ismail
International Islamic University Malaysia, Malaysia
- 05:40 - 06:00pm: A Novel Binary Division Algorithm Based on Vedic Mathematics
and Applications to Polynomial Division
Ashish Joglekar, Shaunak Vaidya, and Ajinkya Kale
College of Engineering, India
- 06:00 - 06:20pm: Approximation of MIMO Nonlinear Time Delay Problem
Yuanliang Zhang and Kil To Chong
Chonbuk National University, Korea
- 06:00 - 09:30pm: Tutorials (please see the list of tutorials)**
-

6:45am - 5:00pm: Registration (Second Floor, Conference Lobby: 1-5)

SESSION 4-CSC: NUMERICAL METHODS AND APPLICATIONS + SCIENTIFIC COMPUTING TOOLS
Chair: Prof. Rajan Alex, West Texas A&M University, USA
July 16, 2008 (Wednesday); 08:00am - 09:00am
(LOCATION: Platinum Room)

08:00 - 08:20am: FREE SLOT

08:20 - 08:40am: A High-Order Compact Boundary Value Method for Solving
Two-Dimensional Heat Equations
Hai-Wei Sun and Wei Wang
University of Macau, P. R. China; Chinese Univ. of Hong Kong

08:40 - 09:00am: Implementation of an H-Matrix Preconditioner
Suely Oliveira and Fang Yang
University of Iowa, USA

- SESSION 5-CSC: NOVEL APPLICATIONS AND ALGORITHMS + ENGINEERING PROBLEMS**
Chair: Dr. J.F. (Jim) Nystrom, Ferris State University, Michigan, USA
July 16, 2008 (Wednesday); 09:00am - 10:20am
(LOCATION: Platinum Room)
- 09:00 - 09:20am: Characterization of Shabu, Methamphetamine, Sold in Iloilo City
 Gretchen Bo-peep G. Giner
 Philippine Drug Enforcement Agency, Quezon City, Philippines and
 University of the Philippines, Iloilo, Philippines
- 09:20 - 09:40am: Complex Systems Modeling with Cellular Automata and Genetic
 Algorithms: an Application to Lava Flows
 William Spataro, Donato D. Ambrosio, Maria Vittoria Avolio,
 Salvatore Di Gregorio, and Rocco Rongo
 University of Calabria, Rende, Italy
- 09:40 - 10:00am: The Initial Value Problem in Triangular Mesh Parameterization
 Xiquan Shi, Shugao Xia/, Fengshan Liu, and Zhixun Su
 Delaware State University, Dover, Delaware, USA
 Dalian University of Technology, Dalian, P. R. China
- 10:00 - 10:20am: Symbolic Solution for Generalized Quantum Cylindrical Wells
 Using Computer Algebra
 Edward Yesid Villegas Pulgarin
 EAFIT University, Colombia
- 10:20 - 10:40am: BREAK**
- 10:40a - 12:00p: During this period, CSC'08 attendees are encouraged to participate
 in sessions belonging to PDPTA'08, GCA'08, BIOCOMP'08, MSV'08,
 CGVR'08, FECS'08, FCS'08, or ERSA'08. These sessions discuss
 topics that overlap the scope of CSC'08.**
- 12:00 - 01:00pm: LUNCH (On Your Own)**

SESSION 6-CSC: OPTIMIZATION TECHNIQUES AND APPLICATIONS
Chair: Dr. M. L. Liu, Lakehead University, Canada
July 16, 2008 (Wednesday); 01:00pm - 02:00pm
(LOCATION: Platinum Room)

01:00 - 01:20pm: A Hybrid Algorithm for the Quadratic Assignment Problem
Kien Ming Ng, Aldy Gunawan, and Kim Leng Poh
National University of Singapore, Singapore

01:20 - 01:40pm: A New Method for Container Loading Problem
Kun He and Wenqi Huang
Huazhong University of Science and Technology, Wuhan, P. R. China

01:40 - 02:00pm: Multilevel Approaches Applied to the Capacitated Clustering Problem
Demane Rodney, Alan Soper, and Chris Walshaw
University of Greenwich, United Kingdom

- SESSION 7-CSC: COMPUTATIONAL MODELS, SIMULATION, AND NOVEL METHODOLOGIES + HPC
Chairs: Dr. Kien Ming Ng and Gretchen Bo-peep G. Giner
National University of Singapore, Singapore
University of the Philippines & Philippine Drug Enforcement Agency
July 16, 2008 (Wednesday); 02:00pm - 03:00pm
(LOCATION: Platinum Room)
- 02:00 - 02:20pm: GPGPU Planetary Simulations with CUDA
Glenn D. Kavanagh, Mark C. Lewis and Berna L. Massingill
Trinity University, USA
- 02:20 - 02:40pm: Implementation of Integer Multiplication in Multiple-Precision
on POWER5+ Architecture
Tomoaki Hirota and Hisayasu Kuroda
University of Tokyo, Japan
- 02:40 - 03:00pm: An Open Source Parallel Interval Solver for Systems of Linear
Fredholm Integral Equations of the Second Kind
Markus Grimmer and Walter Kramer
University of Wuppertal, Germany

**03:00 - 03:40pm: DISCUSSION SESSION C-CSC (Refreshments will be available)
July 16, 2008 (Wednesday)
(LOCATION: Hallways - Ballrooms 1-5)**

- O. Product Integration Methods for First Kind ABEL Integral Equations Using Cubic B-Spline
Sheo Kumar and Harsh Kumar Verma
Dr. B. R. Ambedkar National Institute of Technology, India
- O. Relative Ranking - A Novel Approach for Star Rating
Zeeshan-ul-hassan Usmani, Talal Naveed Puri, and Tanya Shadieva
Florida Institute of Technology, Melbourne, Florida, USA;
Westminster International University, Tashkent, Uzbekistan
- O. Determination of Stresses in Center-Wound Rolls Using Refined Boundary Conditions
M. L. Liu; Lakehead University, Canada

03:40 - 06:00pm: During this period, CSC'08 attendees are encouraged to participate in sessions belonging to PDPTA'08, GCA'08, BIOCOMP'08, MSV'08, CGVR'08, FECS'08, FCS'08, or ERSA'08. These sessions discuss topics that overlap the scope of CSC'08.

06:00 - 09:30pm: Tutorials (please see the list of tutorials)

6:45am - 5:00pm: Registration (Second Floor, Conference Lobby: 1-5)

08:00 - 10:20am: During this period, CSC'08 attendees are encouraged to participate in sessions belonging to PDPTA'08, GCA'08, BIOCOMP'08, MSV'08, CGVR'08, FECS'08, FCS'08, or ERSA'08. These sessions discuss topics that overlap the scope of CSC'08.

10:20 - 10:40am: BREAK

SESSION 8-CSC: COMPUTATIONAL MODELS, SIMULATION, AND NOVEL METHODOLOGIES + HPC
Chair: Dr. H. G. W. Burchard, Oklahoma State Univ., Stillwater, USA
July 17, 2008 (Thursday); 10:40am - 12:40pm
(LOCATION: Platinum Room)

10:40 - 11:00am: A Variant Kantorovich Theorem and High Accuracy Error Estimates in Newton's Method
H. G. W. Burchard and L. B. Rall
Oklahoma State University, Stillwater, Oklahoma, USA

11:00 - 11:20am: Applying SuperLU-DIST to a Glacier Ice Sheet Model
Rodney Jacobs, James Fastook, and Aitbala Sargent
University of Maine, Orono, Maine, USA

11:20 - 11:40am: The Calculation of Axisymmetric Ducts Geometries for Incompressible Flow with Hagen-Poiseuille Flow and Modelling Body Forces
Vasos Pavlika
University of Westminster, Harrow, Middlesex, UK

11:40 - 12:00pm: Efficient and Effective Practical Algorithms for the Set-Covering Problem
Qi Yang, Jamie McPeck, and Adam Nofsinger
University of Wisconsin at Platteville, Wisconsin, USA

12:00 - 12:20pm: Parallel Evolutionary Computation in Very Large Scale Eigenvalue Problems
Hesam T. Dashti , Alireza F. Siahpirani , Liya Wang , and Amir Assadi
University of Wisconsin, Madison, Wisconsin, USA
University of Tehran, Iran

12:20 - 12:40pm: Eigenvalue Spectra Measurements of Complex Networks
K. A. Hawick
Massey University - Albany, Auckland, New Zealand

12:40 - 01:40pm: LUNCH (On Your Own)

01:40 - 03:00pm: During this period, CSC'08 attendees are encouraged to participate in sessions belonging to PDPTA'08, GCA'08, BIOCAMP'08, MSV'08, CGVR'08, FECS'08, FCS'08, or ERSA'08. These sessions discuss topics that overlap the scope of CSC'08.

03:00 - 03:40pm: DISCUSSION SESSION D-CSC (Refreshments will be available)
July 17, 2008 (Thursday)
(LOCATION: Hallways - Ballrooms 1-5)

O. Distributed Genetic Algorithms with Multi-Agents Systems
Emerson Romanhuki, Marcio Fuckner, Fabricio Enembreck,
Braulio Avila, and Edson E. Scalabrin
Pontifical Catholic University of Parana, Brazil

03:40 - 04:40pm: During this period, CSC'08 attendees are encouraged to participate in sessions belonging to PDPTA'08, GCA'08, BIOCAMP'08, MSV'08, CGVR'08, FECS'08, FCS'08, or ERSA'08. These sessions discuss topics that overlap the scope of CSC'08.

SESSION 9-CSC: NUMERICAL METHODS AND APPLICATIONS + SCIENTIFIC COMPUTING TOOLS
Chairs: Dr. George Dimitoglou and Dr. C. Bokhoree
Hood College, USA
University of Technology, Mauritius
July 17, 2008 (Thursday); 04:40pm - 05:40pm
(LOCATION: Platinum Room)

04:40 - 05:00pm: Strategic and Economic Study of Scientific Computing Software
A. Schmutz, J.-M. Davesnes, and S. Waharte
University of Waterloo, Canada; Oxalya, France;

05:00 - 05:20pm: Faster and Smoother Convergence in Turbulent Separated Flow Computation
Wen-Bin Tsai and Hsiu-Ying Lin
Far East University, Taiwan

05:20 - 05:40pm: B-Spline Interpolation Formula for the Numerical Solution of
Singular Integral Equations with Hilbert Kernel
Moin Uddin, Sheo Kumar and A. L. Sangal
Dr. B. R. Ambedkar National Institute of Technology, India

DMIN'08 CONFERENCE SCHEDULE

The 2008 International Conference on Data Mining

Monte Carlo Resort, Las Vegas, Nevada, July 14-17, 2008

Note 1:

There are a number of other sessions (not listed as part of DMIN'08 schedule) that are of significant interest to DMIN conference participants (sessions belonging to other joint conferences in this event.) Therefore, you are encouraged to also check the schedules for other joint conferences. In particular, some sessions in ICAI'08, GEM'08, MLMTA'08, ITSL'08, IKE'08, and EEE'08, discuss topics that are within the scope of DMIN; these have been scheduled so that DMIN attendees can also participate in them.

Note 2:

Each conference is divided into a number of topical sessions. These sessions are not necessarily scheduled in the same room/location. Therefore, conference attendees are to check the location of the session(s) they wish to attend - The conference room numbers appear in this document.

July 13

03:00 - 09:00pm: REGISTRATION (Second Floor, Conference Lobby; 1-5)

- 6:30am - 5:00pm: Registration (Second Floor, Conference Lobby: 1-5)
- 08:30 - 08:45am: WORLDCOMP'08 Opening Remarks
Prof. Hamid R. Arabnia (General Chair & Coordinator)
University of Georgia, Georgia, USA
(LOCATION: Lance Burton Theater)
- 08:45 - 09:35am: Keynote Lecture 1:
The Parallel Computing Landscape: A Berkeley View 2.0
Prof. David A. Patterson
Pardee Prof. of CS; Director, RAD Lab & Par Lab; Past
President, ACM; Member, National Academy of Engineering;
Member, National Academy of Sciences; Fellow of IEEE, ACM,
& AAAS; University of California at Berkeley.
(LOCATION: Lance Burton Theater)
- 09:40 - 10:25am: Keynote Lecture 2:
Searching in the "Real World"
Prof. Ophir Frieder
The Royden B. Davis, SJ, Chair in Interdisciplinary
Studies at Georgetown University; IITRI Chair Professor
of CS at Illinois Institute of Technology; Director,
Information Retrieval lab; Fellow of IEEE, ACM, and AAAS
(LOCATION: Lance Burton Theater)
- 10:30 - 11:15am: Keynote Lecture 3:
Achieving your Dreams
Anousheh Ansari
CEO, Chairman and Co-founder of Prodea Systems, Inc., USA;
Space Ambassador
(LOCATION: Lance Burton Theater)
- 11:15a - 12:00p: Keynote Lecture 4:
Dimensions in Reconfigurable Computing: A New Wave in
Electronic System Designs
Chris Phillips
Vice President of Engineering at ElementCXI, USA
(LOCATION: Lance Burton Theater)
- 12:00 - 01:00pm: LUNCH (On Your Own)

01:00 - 01:20pm: Welcome and Introduction (by DMIN'08 Co-Chairs)

SESSION 1-DMIN: OBJECT AND NOVELTY DETECTION (Chair: TBA)
July 14, 2008 (Monday); 01:00pm - 03:00pm
(LOCATION: Ballroom 1)

01:20 - 01:40pm: Data Mining For Outlier with Minimum Vector Variance
Dyah Erny Herwindiati, Ery Dewajani

01:40 - 02:00pm: Detecting Outliers in High-Dimensional Datasets with Mixed Attributes
Anna Koufakou, Michael Georgiopoulos, and Georgios Anagnostopoulos
University of Central Florida, USA

02:00 - 02:20pm: Naive Bayes Classifier for Extracting Bibliographic Information
from Biomedical Online Articles
Jongwoo Kim, Daniel X. Le, and George R. Thoma
National Library of Medicine, National Institutes of Health, USA

02:20 - 02:40pm: Fast Cryptographic Privacy Preserving Association Rules Mining
on Distributed Homogenous Data Base
Mahmoud Hussein, Ashraf El-Sisi, and Nabil Ismail
Dean, Menoufiya University, Shebin El Kom, Egypt

02:40 - 03:00pm: Approximate Computation of Object Distances by Locality-Sensitive Hashing
Selim Mimaroglu and Dan A. Simovici
University of Massachusetts at Boston, USA

03:00 - 03:20pm: BREAK

- SESSION 2-DMIN: FORECASTING AND TIME SERIES MODELLING (Chair: TBA)
July 14, 2008 (Monday); 03:20pm - 06:00pm
(LOCATION: Ballroom 1)**
- 03:20 - 03:40pm: Music Visualization with DISC and Structural Feature Diagram
Ya-Hung Tseng and Jia-Lien Hsu
Fu Jen Catholic University, Taiwan
- 03:40 - 04:00pm: Text Mining Post Project Reviews to Improve the Construction
Project Supply Chain Design
Alok Choudhary, Jenny Harding, Patricia Carrillo, and Paul Oluikpe
Loughborough University, United Kingdom
- 04:00 - 04:20pm: Default ARTMAP Neural Networks for Classification of Anthrax
Time Series from Inhalation Anthrax Models
Rui Xu, Robert Woodley, and Donald Wunsch
Missouri University of Science and Technology, USA
- 04:20 - 04:40pm: Case Based Reasoning Models to Predict Final Sales: A Test
of Railway Passenger Arrivals
Tsung-Hsien Tsai
Cornell University, USA
- 04:40 - 05:00pm: Neuro-Fuzzy Models in Real-Time Flood Forecasting
Dawei Han
University of Bristol, United Kingdom
- 05:00 - 05:20pm: Weight Initialization of Gaussian Neural Networks for Conditional
Mean and Variance Forecasts
Porntip Dechpichai and Pamela Davy
University of Wollongong, Australia
- 05:20 - 05:40pm: Forecasting Vertical Acceleration of Railway Wagons - A Comparative Study
GM Shafiullah, Scott Simson, Adam Thompson, Shawkat Ali, and Peter Wolfs
Central Queensland University, Australia
- 05:40 - 06:00pm: Forecasting High-Frequency Time Series with Neural Networks - An
Analysis of Modelling Challenges
Sven Crone and Nikolaos Kourentzes
Lancaster University Management School, United Kingdom
- 06:00 - 09:00pm: Tutorials (please see the list of tutorials)**
- 09:10 - 11:30pm: CONFERENCE RECEPTION DINNER & BANQUET KEYNOTE - July 14 (Monday)
High Performance Computing and Computational Intelligence: Link
to the Translational Medicine and Personalized Healthcare
Dr. Jack Y. Yang and Dr. Mary Qu Yang
Harvard University, Massachusetts, USA and
National Human Genome Research Institute, NIH, Bethesda, USA
(LOCATION: Ballrooms 1-5)**
-

6:45am - 5:00pm: Registration (Second Floor, Conference Lobby: 1-5)

SESSION 3-DMIN: SEGMENTATION AND CLUSTERING (Chair: TBA)
July 15, 2008 (Tuesday); 08:00am - 10:20am
(LOCATION: Ballroom 1)

08:00 - 08:20am: Algorithms and Software for Calculating and Visualizing the Cardinality of the GDB
 Sen Zhang and Katherine Herbert
 SUNY Oneonta, USA

08:20 - 08:40am: Genetic Algorithm for Profitability Based Segmentation
 Harsha Aeron, Ramasubramanian Sundararajan, Tarun Bhaskar, Ashwani Kumar, Moorthy Janakiraman
 Indian Institute of Management, India

08:40 - 09:00am: Algorithms for Model-Based Block Gaussian Clustering
 Mohamed Nadif and Gerard Govaert
 CRIP5, University of Paris Descartes, France

09:00 - 09:20am: Efficient Incremental Learning with Self-Organizing Neural Grove
 Hirotaka Inoue and Hiroyuki Narihisa
 Kure College of Technology, Japan

09:20 - 09:40am: Automated Taxonomy Generation for Summarizing Multi-Type Relational Datasets
 Tao Li and Sarabjot Anand
 University of Warwick, United Kingdom

09:40 - 10:00am: PCS: An Efficient Clustering Method for High-Dimensional Data
 Wei Li, Cindy Chen, and Jie Wang
 University of Massachusetts Lowell, USA

10:00 - 10:20am: Feature Extraction via Kernelized Signal Fraction Analysis vs Kernelized Principal Component Analysis
 Fatemeh Emdad, Michael Kirby, and Seyed A. Zekavat
 Michigan Tech University, USA

10:20 - 10:40am: BREAK

- SESSION 4-DMIN: KNOWLEDGE DISCOVERY PROCESSES AND APPLICATIONS (Chair: TBA)**
July 15, 2008 (Tuesday); 10:40am - 12:20pm
(LOCATION: Ballroom 1)
- 10:40 - 11:00am: Investigating the Relationship Between Canonical Correlation Analysis (CCA), and ...
Fatemeh Emdad, Michael Kirby, and Seyed A. Zekavat
Michigan Tech University, USA
- 11:00 - 11:20am: Data Warehousing: A Functional Overview
Srikanth Rokkam and Yijie Han
University of Missouri at Kansas City, USA
- 11:20 - 11:40am: KDD and Its Applications in Automotive Sector - A Brief Survey
Namburu Setu Madhavi, Prokhorov Danil, Chigusa Shunsuke, Qiao Liu,
and Krishna Pattipati
Toyota Motor Engineering and Management, USA
- 11:40 - 12:00pm: Application of Data Mining Techniques in the Identification of Key Weather Parameters Affecting ...
Azzam ul Asar and Amjad Amjad Ullah
NWFP University of Engineering and Technology
- 12:00 - 12:20pm: Use of Data Mining
Ilham Benyahia and Thomas Legault
Universite du Quebec en Outaouais, Canada
- 12:20 - 01:20pm: LUNCH (On Your Own) & Preparation for DMIN Poster Session**

01:20 - 02:00pm: DMIN - POSTER SESSION A (Chair: TBA)
 July 15, 2008 (Tuesday)
 (LOCATION: Ballroom 1 and Hallway)

- 0. Leakage Detection by Adaptive Process Modeling
 Jaakko Talonen, Miki Sirola, and Jukka Parviainen
 Helsinki University of Technology (CIS), Finland
- 0. Ranking of Health Plan Members for Proactive Intervention
 David Wright; Ingenix
- 0. Feature Weighting to Improve Class Discrimination in Subspaces
 Skrypnyk Iryna; University of Jyvaskyla, Finland
- 0. Using ANOVA to Analyze Modified Gini Index Decision Tree Classification
 Quocnam Tran; Lamar University, Texas, USA
- 0. Exploring Input Selection for Time Series Forecasting
 Hassan Rabie and Mohammed El-Beltagy; Cairo University, Egypt
- 0. Data Mining on Large Data Set for Predicting Salmon Spawning Habitat
 YuLong Xie, Christopher J. Murray, Timothy P. Hanrahan, and David R. Geist
 Pacific Northwest National Laboratory, USA
- 0. Forecasting Foreign Exchange Rates Using Time Delay Neural Networks
 Krishna Malkareddy and Naveen Kumar Boiroju
- 0. A New Construction of Classification Based on Asymmetrical Fuzzy
 Cognitive Map
 Bingru Yang and Zhen Peng
 University of Science and Technology Beijing, P. R. China
- 0. An Analysis of Data Anomalies in Data Mining and Knowledge
 Discovery in Data
 Malone Mary and Dullea James
 Comcast Cable Corporation, USA
- 0. Use of Data Mining Techniques in Understanding Home Interview
 Surveys Employed for Travel Demand ...
 Sai Hanuman Akundi, Sesham Anand, and Govardhan A
 GRIET, India
- 0. Evaluation of Syllabus Based Web Content Extractor
 Saba Hilal and S. A. M. Rizvi
 DAV Institute Of Management
- 0. Categorization of Users Using Unlabeled Query Logs
 Xiaoran Wang and Coskun Bayrak
 University of Arkansas at Little Rock, Arkansas, USA
- 0. Machine Learning Approach for Classification of Zeolite Crystals
 Shujiang Yang, Mohammed Lach-hab, Iosif I. Vaisman, and
 Estela Blaisten-Barojas
 George Mason University, Fairfax, Virginia, USA
- 0. The Role of Conceptual Hierarchies in the Diagnosis of Diabetes
 Sang C. Suh and Madhavi Latha Valasingam
 Texas A & M University - Commerce, USA

SESSION 5-DMIN: PARALLEL ALGORITHMS AND GRID-COMPUTING (Chair: TBA)
July 15, 2008 (Tuesday); 02:00pm - 03:20pm
(LOCATION: Ballroom 1)

02:00 - 02:20pm: Distributed Probabilistic Classification of Data Streams
Farid Seifi, Mohammad Reza Kangavari, Homan Abbasian
Iran University of Science and Technology, Iran

02:20 - 02:40pm: Exploring the Role of Activation Function Type in
Evolutionary Artificial Neural Networks
Kristina Davoian and Wolfram-M. Lippe
University of Muenster, Germany

02:40 - 03:00pm: Genetic Decision Lists for Concept Description
Ulf Johansson, Cecilia Sonstrod, Rikard Konig, and Lars Niklasson
University of Boras, Sweden

03:00 - 03:20pm: BREAK

03:20 - 06:00pm: During this period, DMIN'08 attendees are encouraged to participate
in sessions belonging to ICAI'08, GEM'08, MLMTA'08, ITSL'08,
IKE'08, or EEE'08. These sessions discuss topics that overlap
the scope of DMIN'08.

06:00 - 09:30pm: Tutorials (please see the list of tutorials)

6:45am - 5:00pm: Registration (Second Floor, Conference Lobby: 1-5)

SESSION 6-DMIN: WEB AND SOCIAL NETWORK MINING (Chair: TBA)
July 16, 2008 (Wednesday); 08:00am - 10:00am
(LOCATION: Ballroom 1)

08:00 - 08:20am: Guided Content Mining Approach for Automated Meta-Rule
Extraction and Information Retrieval
Muhammad Nadeem, Syed Shams Ul Haq, Muhammad Anwar Usman
SZABIST-Karachi, Anilogix Research, Pakistan

08:20 - 08:40am: Using Latent Semantic Analysis of Email to Detect Change
in Social Groups
Ian McCulloh, Eric Daimler, and Kathleen Carley
U.S. Military Academy, USA

08:40 - 09:00am: Web Page Classification Exploiting Likely Component Pages
Yuxin Wang and Keizo Oyama
The University of Tokyo, Japan

09:00 - 09:20am: A Framework for Improving Time-Oriented Heuristic in
Estimating User Session ...
Amithalal Caldera
University of Colombo, Sri Lanka

09:20 - 09:40am: Political Leaning Categorization by Exploring Subjectivities
in Political Blogs
Maojin Jiang and Shlomo Argamon
Illinois Institute of Technology, USA

09:40 - 10:00am: WebTrack: Mining and Tracking Content and Structure of Websites
Junlan Feng, Valerie Torres, Daniel G. Sheleheda, Cynthia Cama
AT&T Labs Research, USA

10:00 - 10:20am: BREAK

**SESSION 7-DMIN: DATA PRE-PROCESSING AND PREPARATION (Chair: TBA)
July 16, 2008 (Wednesday); 10:20am - 12:00noon
(LOCATION: Ballroom 1)**

- 10:20 - 10:40am: Privacy-Preserving Classification of Horizontally Partitioned Data via Random Kernels
Olvi Mangasarian and Edward Wild
University of Wisconsin-Madison, USA
- 10:40 - 11:00am: An Efficient Privacy-Preserving Data Mining Platform
Ronggong Song, Larry Korba, George Yee
National Research Council Canada, Canada
- 11:00 - 11:20am: A Brief Guide to Legal Issues for Data-Miners
Aaron Lai, Thomas Ho, Raymond Wan
Bank of America, USA
- 11:20 - 11:40pm: FREE SLOT
- 11:40 - 12:00pm: An Improved Distortion Technique for Privacy Preserving Frequent Itemset Mining
Ravi Chandra and Durvasula Somayajulu
National Institute of Technology
- 12:00 - 01:00pm: LUNCH (On Your Own)

SESSION 8-DMIN: ASSOCIATION RULE MINING (Chair: TBA)
July 16, 2008 (Wednesday); 01:00pm - 02:20pm
(LOCATION: Ballroom 1)

01:00 - 01:20pm: Exceptional Association Rule Mining Using Genetic Network Programming
Kaoru Shimada and Kotaro Hirasawa
Waseda University, Japan

01:20 - 01:40pm: FREE SLOT

01:40 - 02:00pm: Combined And/Or Association Rules
Kelly Yip and David Nembhard
Penn State University, USA

02:00 - 02:20pm: A New Algorithm for Discovery Maximal Frequent Itemsets
Mohammad Nadimi-Shahraki

02:20 - 02:40pm: BREAK

**SESSION 9-DMIN: CLASSIFICATION AND REGRESSION ANALYSIS I (Chair: TBA)
July 16, 2008 (Wednesday); 02:40pm - 04:40pm
(LOCATION: Ballroom 1)**

- 02:40 - 03:00pm: A Novel Scheme for the Detection of an Unknown Class in Classification
Mingjun Song and Sanguthevar Rajasekaran
University of Connecticut, USA
- 03:00 - 03:20pm: Effect of Nonlinear Resource Allocation on AIRS Classifier Accuracy
Shahram Golzari Hormozi, Shyamala Doriasamy, Md. Nasir B Sulaiman,
NurIzura Udzir
- 03:20 - 03:40pm: A 3-Class Boosting Technique for Improving Regression Models
Claudia Becerra, Fabio Gonzalez, and Sergio Gonzalo Jimenez Vargas
Universidad Nacional de Colombia, Colombia
- 03:40 - 04:00pm: Using Local Node Information in Decision Trees: Coupling a
Local Decision Rule with an Off-Centered
Nguyen-Khang Pham, Thanh-Nghi Do, Philippe Lenca, Stephane Lallich
Institut Telecom/Telecom Bretagne, Lab-STIC
- 04:00 - 04:20pm: Evolving a Locally Optimized Instance Based Learner
Ulf Johansson, Rikard Konig, and Lars Niklasson
University of Boras, Sweden
- 04:20 - 04:40pm: Data Mining of Modulation Types Using Cyclostationarity-Based
Decision Tree
Haifeng Xiao, Chunhua Chen, Wei Su, John Kosinski, Yun Q. Shi
New Jersey Institute of Technology, USA
- 04:40 - 06:00pm: **During this period, DMIN'08 attendees are encouraged to participate
in sessions belonging to ICAI'08, GEM'08, MLMTA'08, ITSL'08,
IKE'08, or EEE'08. These sessions discuss topics that overlap
the scope of DMIN'08.**
- 06:00 - 09:30pm: **Tutorials (please see the list of tutorials)**
-

6:45am - 5:00pm: Registration (Second Floor, Conference Lobby: 1-5)

**SESSION 10-DMIN: FEATURE SELECTION AND SAMPLING (Chair: TBA)
July 17, 2008 (Thursday); 08:00am - 10:20am
(LOCATION: Ballroom 1)**

08:00 - 08:20am: A New Method for Principal Component Analysis of High-Dimensional Data Using Compressive Sensing
Sebastian Klenk and Gunther Heidemann
AIS - University of Stuttgart, Germany

08:20 - 08:40am: Feature Selection as an Instrument to Improve the Usability of Classification Results of High-Dimensional Data
Christian Sassenberg, Christian Weber, Madjid Fathi, Alexander Holland, and Ralf Montino
ELMOS Central IT Services GmbH & Co KG, Dortmund, Germany; University of Siegen, Siegen, Germany

08:40 - 09:00am: The Influences of Number and Nature of Classifiers on Consensus Feature Selection
Kyriacos Chrysostomou, Sherry Chen, and Xiaohui Liu
Brunel University, United Kingdom

09:00 - 09:20am: A Comprehensive Study in Benchmarking Feature Selection and Classification Approaches for Tradition
Shyamala Doraisamy, Shahram Golzari Hormozi, Md. Nasir B Sulaiman, Nur Izura Udzir, and Noris Mohd. Norowi; Malaysia

09:20 - 09:40am: Use of Neural Networks for Integrated Assessments of Wetlands in the Gippsland Region of South-East
Anne Venables, Michelle Dickson, and Paul Boon
Victoria University, Australia

09:40 - 10:00am: Rule Based Base Classifier Selection for Bagging Algorithm
Shawkat Ali, Pang Ben, and Tackle Kevin
Central Queensland University, Australia

10:00 - 10:20am: Naive Credal Classifier 2: an Extension of Naive Bayes for Delivering Robust Classifications
Corani Giorgio and Marco Zaffalon; IDSIA

10:20 - 10:40am: BREAK

**SESSION 11-DMIN: CLASSIFICATION AND REGRESSION ANALYSIS II (Chair: TBA)
July 17, 2008 (Thursday); 10:40am - 11:40am
(LOCATION: Ballroom 1)**

10:40 - 11:00am: Large Data Sets Multi-Classification Using Classes Distribution
Jair Cervantes, Xiaou Li, and Wen Yu
Department of Computing. CINVESTAV, Mexico

11:00 - 11:20am: Discriminant Random Forests
Tracy Lemmond, Andrew Hatch, Barry Chen, David Knapp,
Lawrence Hiller, Marshall Mugge, and William Hanley
Lawrence Livermore National Laboratory, USA

11:20 - 11:40am: A Neural Mining Approach for Predicting Customer Loyalty in
Large Retail Databases
Cristian Figueroa
University of Chile, Chile

11:40a - 01:00p: LUNCH (On Your Own)

01:00 - 06:00pm: During this period, DMIN'08 attendees are encouraged to participate
in sessions belonging to ICAI'08, GEM'08, MLMTA'08, ITSL'08,
IKE'08, or EEE'08. These sessions discuss topics that overlap
the scope of DMIN'08.

EEE'08 CONFERENCE SCHEDULE

The 2008 International Conference on e-Learning, e-Business, Enterprise Information Systems, and e-Government

Monte Carlo Resort, Las Vegas, Nevada, July 14-17, 2008

Note 1:

There are a number of other sessions (not listed as part of EEE'08 schedule) that are of significant interest to EEE conference participants (sessions belonging to other joint conferences in this event.) Therefore, you are encouraged to also check the schedules for other joint conferences. In particular, some sessions in ICAI'08, MLMTA, ICOMP'08, SWWS'08, SAM'08, DMIN'08, IKE'08, and FECS'08, discuss topics that are within the scope of EEE; these have been scheduled so that EEE attendees can also participate in them.

Note 2:

Each conference is divided into a number of topical sessions. These sessions are not necessarily scheduled in the same room/location. Therefore, conference attendees are to check the location of the session(s) they wish to attend - The conference room numbers appear in this document.

July 13

03:00 - 09:00pm: REGISTRATION (Second Floor, Conference Lobby; 1-5)

- 6:30am - 5:00pm: Registration (Second Floor, Conference Lobby: 1-5)
- 08:30 - 08:45am: **WORLDCOMP'08 Opening Remarks**
 Prof. Hamid R. Arabnia (General Chair & Coordinator)
 University of Georgia, Georgia, USA
 (LOCATION: Lance Burton Theater)
- 08:45 - 09:35am: **Keynote Lecture 1:**
The Parallel Computing Landscape: A Berkeley View 2.0
 Prof. David A. Patterson
 Pardee Prof. of CS; Director, RAD Lab & Par Lab; Past
 President, ACM; Member, National Academy of Engineering;
 Member, National Academy of Sciences; Fellow of IEEE, ACM,
 & AAAS; University of California at Berkeley.
 (LOCATION: Lance Burton Theater)
- 09:40 - 10:25am: **Keynote Lecture 2:**
Searching in the "Real World"
 Prof. Ophir Frieder
 The Royden B. Davis, SJ, Chair in Interdisciplinary
 Studies at Georgetown University; IITRI Chair Professor
 of CS at Illinois Institute of Technology; Director,
 Information Retrieval lab; Fellow of IEEE, ACM, and AAAS
 (LOCATION: Lance Burton Theater)
- 10:30 - 11:15am: **Keynote Lecture 3:**
Achieving your Dreams
 Anousheh Ansari
 CEO, Chairman and Co-founder of Prodea Systems, Inc., USA;
 Space Ambassador
 (LOCATION: Lance Burton Theater)
- 11:15a - 12:00p: **Keynote Lecture 4:**
**Dimensions in Reconfigurable Computing: A New Wave in
 Electronic System Designs**
 Chris Phillips
 Vice President of Engineering at ElementCXI, USA
 (LOCATION: Lance Burton Theater)
- 12:00 - 12:40pm: LUNCH (On Your Own)
- 12:40 - 05:00pm: During this period, EEE'08 attendees are encouraged to participate
 in sessions belonging to ICAI'08, MLMTA, ICOMP'08, SWWS'08,
 SAM'08, DMIN'08, IKE'08, for FECS'08. These sessions discuss
 topics that overlap the scope of EEE'08.

- SESSION 1-EEE: TOOLS AND STRATEGIES + TUTORING**
Chair: Dr. Rose Joshua, All Nations University, Koforidua, Ghana
July 14, 2008 (Monday); 05:00pm - 06:20pm
(LOCATION: Gold Room)
- 05:00 - 05:20pm: Teaching a Foreign Language Over The Internet
Jie Liu, John Marsaglia, David Olson, and Weiwei Zhang
Western Oregon University, USA
- 05:20 - 05:40pm: Adaptation of the RUP Methodology for Life-Long Learning
Soulla Louca
University of Nicosia, Nicosia, Cyprus
- 05:40 - 06:00pm: Multichannel Course Management System
Vladimir Zanev and David Woolbright
Columbus State University, USA
- 06:00 - 06:20pm: A New Graphical Interface for Real-Time Operation and Management
of Power Distribution Networks
Sastry MKS and Sastry Kuruganty
University of West Indies, Trinidad and Tobago;
Universidad del Turabo, Puerto Rico
- 06:00 - 09:00pm: Tutorials (please see the list of tutorials)
- 09:10 - 11:30pm: CONFERENCE RECEPTION DINNER & BANQUET KEYNOTE - July 14 (Monday)
High Performance Computing and Computational Intelligence: Link
to the Translational Medicine and Personalized Healthcare
Dr. Jack Y. Yang and Dr. Mary Qu Yang
Harvard University, Massachusetts, USA and
National Human Genome Research Institute, NIH, Bethesda, USA
(LOCATION: Ballrooms 1-5)

6:45am - 5:00pm: Registration (Second Floor, Conference Lobby: 1-5)

SESSION 2-EEE: LEARNING TOOLS AND STRATEGIES + TUTORING
Chairs: Sherrene Bogle and Sastry MKS
University of Technology, Jamaica
University of West Indies
July 15, 2008 (Tuesday); 08:00am - 10:40am
(LOCATION: Gold Room)

08:00 - 08:20am: Public Relations System for Mobile Learning
Chul-Woo Kim, MiSook Lim, and Young-Min Chin
Infra Laboratory of KT, Seoul, Korea

08:20 - 08:40am: Developing Intelligent Agent to Support Legacy Software
Danielle Stack and Xiaoqin (Shelly) Zhang
University of Massachusetts Dartmouth, USA

08:40 - 09:00am: Dynamic Assessment and Customizable e-Learning Content Generator
Wei-Tek Tsai, Madhu Datla and Jingjing Xu
Arizona State University, USA

09:00 - 09:20am: Integrated, Intelligent, Adaptive Instructional Systems Framework
Barbara J. Hannibal and Jeffrey W. Wallace
Carpe Occasio Technology Systems (COTS), USA

09:20 - 09:40am: E-learning for the Improvement of the Peruvian Education System
Roberto Salas and Betsy Figueroa
Pontificia Universidad Catolica del Peru, Peru

09:40 - 10:00am: Ontology-Based Generic Learning Path Recommendations
Steffen Mencke, Martin Kunz and Reiner Dumke
Otto-von-Guericke University, Germany

10:00 - 10:20am: Synopsis of an Internet Spatial Decision Support Prototype
Joao Negreiros, Marco Painho, and Tiago Oliveira
Universidade Nova de Lisboa, Lisboa, Portugal

10:20 - 10:40am: Overview and Evaluation of Usability Evaluation Methods for E-learning Systems
Mahmood Doroodchi and Navid Nikmehr
Cardinal Stritch University, Milwaukee, WI, USA
Shiraz University, Iran

10:40a - 03:00p: During this period, EEE'08 attendees are encouraged to participate in sessions belonging to ICAI'08, MLMTA, ICOMP'08, SWWS'08, SAM'08, DMIN'08, IKE'08, for FECS'08. These sessions discuss topics that overlap the scope of EEE'08.

**03:00 - 03:40pm: DISCUSSION SESSION A-EEE (Refreshments will be available)
July 15, 2008 (Tuesday)
(LOCATION: Hallways - Ballrooms 1-5)**

- 0. User Centred Design for Engineering e-Government Web Usability
Amina Tariq
National University of Computer & Emerging Sciences, Pakistan
- 0. Learning Environment by Network Service
Brian (Se-Yeon) Won; DUNET, Seoul, South Korea
- 0. e-Government in Bangladesh: Exploring the Mindset of the Public
and Private Sector Professionals
Chowdhury Golam Hossan and Timothy Bartram
La Trobe University, Melbourne, Australia

03:40 - 06:00pm: During this period, EEE'08 attendees are encouraged to participate in sessions belonging to ICAI'08, MLMTA, ICOMP'08, SWS'08, SAM'08, DMIN'08, IKE'08, for FECS'08. These sessions discuss topics that overlap the scope of EEE'08.

06:00 - 09:30pm: Tutorials (please see the list of tutorials)

6:45am - 5:00pm: Registration (Second Floor, Conference Lobby: 1-5)

SESSION 3-EEE: LEARNING TOOLS AND STRATEGIES + TUTORING + ACCOUNTING
Chairs: Prof. Marco Painho and Jeffrey W. Wallace
New University of Lisbon, Portugal
Carpe Occasio Technology Systems (COTS), USA
July 16, 2008 (Wednesday); 08:00am - 10:20am
(LOCATION: Gold Room)

08:00 - 08:20am: GroupShare - Designing an Awareness Rich Online Groupware System
 Greg Baatard
 Edith Cowan University, Perth, Western Australia

08:20 - 08:40am: Accounting, Pricing and Charging Service Models for a
 GUISET Grid-Based Service Provisioning Environment
 Buthelezi, M.E., Ekabua, Iyilade J., O.O. and Adigun, M.O.
 University of Zululand, Kwa-Dlangezwa, South Africa

08:40 - 09:00am: Design and Implementation of an In-House e-Learning Application Framework
 Ghasem S. Alijani, Radhakrishna Jandhyala, Carlos Hernandez and Obyung
 Kwun
 Southern University at New Orleans, USA

09:00 - 09:20am: e-Course and its Applications in Blended-Learning Environment
 Duc-Long Le, Van-Hao Tran, Axel Hunger, and Dinh-Thuc Nguyen
 HCMc University of Pedagogy, Vietnam;
 University of Duisburg-Essen, Duisburg, Germany;
 HCMc National University, University of National Sciences, Vietnam

09:20 - 09:40am: Using Multimedia to Improve Medical E-learning
 Liana Stanescu, Dumitru Dan Burdescu, Anca Ion, and Cosmin Stoica
 University of Craiova, Romania

09:40 - 10:00am: Architectural Design for a Prototype eLearning System for
 the Ghana Educational Service
 Rose Joshua
 International Centre for Scientific and Strategic Studies,
 All Nations University, Koforidua, Ghana

10:00 - 10:20am: Virtual Learning Environments
 Alok Tiwari and Manoj Manuja
 Infosys Technologies, Ltd., India

10:20 - 10:40am: BREAK

10:40a - 03:00p: During this period, EEE'08 attendees are encouraged to participate in sessions belonging to ICAI'08, MLMTA, ICOMP'08, SWS'08, SAM'08, DMIN'08, IKE'08, for FECS'08. These sessions discuss topics that overlap the scope of EEE'08.

03:00 - 03:40pm: DISCUSSION SESSION B-EEE (Refreshments will be available)
July 16, 2008 (Wednesday)
(LOCATION: Hallways - Ballrooms 1-5)

- 0. Learner Model Oriented Intelligent Learning and Business Support System
Sungki Min (Hyanghee Kim); WIZI Corporation, Seoul, Korea
- 0. Developing an Online Library System for AOU as a Knowledge Management Tool
Bayan Abu Shawar; Arab Open University, Amman, Jordan
- 0. Exploitation of Tracking Information: An Automatic Mechanism to Keep Learning Designs Up-to-Date
Julien Broisin and Philippe Vidal
Universite Paul Sabatier, Toulouse, France
- 0. A Model for Developers of Web Based Computer Science Courses
Thompson Cummings and Margaret Bernard
St. George's Univ. Grenada; Univ. of the West Indies, Trinidad

- SESSION 4-EEE: E-BUSINESS + ENTERPRISE IS + SUPPLY CHAIN MANAGEMENT + FINANCIAL MARKETS**
Chairs: Dr. P.D.D. Dominic and Shashi kant Singh
Universiti Teknologi Petronas, Malaysia
IIIT, India
July 16, 2008 (Wednesday); 03:40pm - 05:00pm
(LOCATION: Gold Room)
- 03:40 - 04:00pm: Towards Holistic Approaches to Secure e-Business: A Critical Review
Ja'far Alqatawna, Jawed Siddiqi, and Babak Akhgar
Sheffield Hallam University, Sheffield, United Kingdom
- 04:00 - 04:20pm: Multimedia Tool to Help Small and Medium Enterprises in their
Enterprise Resource Planning and Business Process Change
Perfecto Marino, Miguel Angel Dominguez, Santiago Otero, & Miguel Marino
University of Vigo, Spain
- 04:20 - 04:40pm: A Holistic Framework for Secure e-Business
Ja'far Alqatawna, Jawed Siddiqi, and Babak Akhgar
Sheffield Hallam University, Sheffield, United Kingdom
- 04:40 - 05:00pm: On the Algorithmic Treatment of e-Business Problems and
Strategy Management Methodologies
Alexandra Lipitakis
University of Kent, Canterbury, Kent, England

- SESSION 5-EEE: TOOLS + WEB + SOCIAL ISSUES**
Chair: Dr. Rose Joshua, All Nations University, Koforidua, Ghana
July 16, 2008 (Wednesday); 05:00pm - 06:20pm
(LOCATION: Gold Room)
- 05:00 - 05:20pm: A Cyber University Framework for Web-Based Teaching
Ronnie Cheung
Hong Kong Polytechnic University, Hong Kong
- 05:20 - 05:40pm: Constructing Secure Commercial Vehicle Operation Systems
Based on XML and RFID Techniques
Woei-Jiunn Tsaur and Ying-Jui Huang
Da-Yeh University, Taiwan
- 05:40 - 06:00pm: Recommending Mobile Content using Content Diffusion and
Preference Transition
Tong Queue Lee, Eunchang Lee, Young Park and Yongtae Park
Seoul National University, Korea
- 06:00 - 06:20pm: Practical ERP Implementation in Government Organization
Khaled Alghathbar
King Saud University, Saudi Arabia
- 06:00 - 09:30pm: Tutorials (please see the list of tutorials)**
-

6:45am - 5:00pm: Registration (Second Floor, Conference Lobby: 1-5)

SESSION 6-EEE: GOVERNANCE AND RELATED ISSUES

**Chair: Dr. Jongwook Woo, California State University, USA
July 17, 2008 (Thursday); 08:00am - 09:40am
(LOCATION: Gold Room)**

08:00 - 08:20am: A Competence Based Approach to IT Governance in the Brazilian Government
Fabio Perez Marzullo, Carlos H. A. Moreira, Jose Roberto Blaschek,
and Jano Moreira de Souza
Federal University of Rio de Janeiro, Brazil;
State University of Rio de Janeiro, Brazil

08:20 - 08:40am: The Societal Dimension of E-Government in UK
Cyril E. Azenabor and Charles A. Shoniregun
University of East London, London, United Kingdom

08:40 - 09:00am: Comparative Review of e-Service Maturity Models: 6I Model
Mohammad Hjouj Btoush, Jawed Siddiqi, and Babak Akhgar
Sheffield Hallam University, United Kingdom

09:00 - 09:20am: Services Locating in a Semantic Based Environment for
e-Government Domain
Luis Alvarez Sabucedo, Luis Anido Rifon, and Ruben Miguez Perez
Universidade de Vigo, Spain

09:20 - 09:40am: An Institutional Architecture of Ontology-Based Models in
the Public Sector
Roberta Nannucci and Daniela Tiscornia
The Institute of Legal Information Theory and Techniques (ITTIG) of
the Italian National Research Council, Florence, Italy

09:40 - 10:00am: BREAK

- SESSION 7-EEE: E-BUSINESS + ENTERPRISE IS + SUPPLY CHAIN MANAGEMENT + FINANCIAL MARKETS**
Chairs: Amina Tariq and Thompson Cummings
National University of Computer & Emerging Sciences, Pakistan
St. George's University, Grenada
July 17, 2008 (Thursday); 10:00am - 12:20pm
(LOCATION: Gold Room)
- 10:00 - 10:20am: Monitoring Cross-Organizational Business Processes
Thomas Matheis and Peter Loos
Institute for Information Systems (IWi) at the German Research Center
for Artificial Intelligence (DFKI), Germany
- 10:20 - 10:40am: CMS in e-Business Application
Pete Petathirapat and Jongwook Woo
California State University, USA
- 10:40 - 11:00am: Software Engineering Internationally Distributed Business
Networks and Management: SE-IDBN
Serdar Turkeli
METU Science and Technology Policy, Turkey
- 11:00 - 11:20am: The Study of the UNEDocs Support System for Maritime
Transport Business's Single Window
KeyongRim Ahn, SunHo Park, and JinWook Chung
Sungkyunkwan University, SuWon, Korea; Korea University, Seoul, Korea
- 11:20 - 11:40am: Free or Not: Research on Business Model in China C2C Market
Yun Tang, Qian Meng, and Kaiyun Zhang
Tsinghua University, Beijing, P. R. China
- 11:40 - 12:00pm: A SCM Framework to Describe CRM
P. D. D. Dominic, P. Parthiban, and Goh Kim Nee
Universiti Teknologi Petronas, Perak, Malaysia;
National Institute of Technology, Tamilnadu, Malaysia
- 12:00 - 12:20pm: Consumer Behavior and Purchase Intention with Reference to
Brand Name and their Country of Origin in Pakistan
Shabana Irfan, Muhammad Shahbaz Shabbir, and Ahmed Kaleem
International Islamic University, Islamabad, Pakistan;
University of Malaya, Malaysia;
Lahore School of Economics Lahore, Pakistan
- 12:20 - 01:20pm: **LUNCH (On Your Own)**

- SESSION 8-EEE: LEARNING TOOLS AND STRATEGIES + TUTORING**
Chair: Dr. Chin-Chih Chang, Chung Hua University, Taiwan
July 17, 2008 (Thursday); 01:20pm - 03:00pm
(LOCATION: Gold Room)
- 01:20 - 01:40pm: Relationship Analysis on Academic Achievement and Learning Methods during Vacation: A Data Mining Approach
Hea-Suk Kim, Yang-Sae Moon, Jinho Kim, Suan Lee, and Woong-Kee Loh
Kangwon National University, Kangwon, Korea
Sungkyul University, Gyeonggi, Korea
- 01:40 - 02:00pm: Impact of Cultural Dimensions on E-Learning under Face-to-Face Learning Mode and Distance Learning Mode in Papua New Guinea
Pulapa Subba Rao, Ponnusamy Manohar, and Albert C. Mellam
University of Papua New Guinea, Papua New Guinea, New Guinea
- 02:00 - 02:20pm: Distance Education-Emerging Challenges and Opportunities in the Digital Divide of the Caribbean
Sherrene Bogle, Tamoya Irving, and Elorine Johnson
University of Technology, Jamaica
- 02:20 - 02:40pm: Classification of Weblogs for Collaborative E-Learning
Stefan Bitzer and Matthias Schumann
Georg-August-Universitat Gottingen, Germany
- 02:40 - 03:00pm: Designing a Rapid Prototype Model RPM Online Training Course for CDHS Pandemic Influenza Emergency Risk Communicators
Maria Lorna A. Kunnath
MLAKedusoln, USA

03:00 - 03:40pm: **DISCUSSION SESSION C-EEE (Refreshments will be available)**
July 17, 2008 (Thursday)
(LOCATION: Hallways - Ballrooms 1-5)

- 0. E-Learning Through Multimedia Technology: An Indian Prospective
Naushad Ali; Aligarh Muslim University, India
- 0. The Relationship Between Knowledge Management and e-Learning
Jehad Al-Sadi, Bayan Abu-Shawar, and Taleb Sarie; Jordan
- 0. Developing Fully Functional e-Portal: The Typical e-Government
Service Portal in Saudi Arabia
Abdulhameed Al-Elaiwi; TVTC, Riyadh College of Tech., Saudi Arabia
- 0. Etext Revolution?
Dolly Samson
Stamford International University, Thailand

- SESSION 9-EEE: TOOLS + WEB + E-LEARNING + SOCIAL ISSUES**
Chair: Dr. Justin Brown, Edith Cowan University, Perth, Western Australia
July 17, 2008 (Thursday); 03:40pm - 06:00pm
(LOCATION: Gold Room)
- 03:40 - 04:00pm: Towards a Bidirectional Transformation of UML and XML Models
 Ludovic Menet and Myriam Lamolle
 LINC, University of Paris8, France; Orchestra Networks, Pais, France
- 04:00 - 04:20pm: Implementing Standard Reference Models for e-Learning Systems
 Juan Manuel de Blas, Luis de Marcos, Roberto Barchino,
 Jose Maria Gutierrez, Jose Antonio Gutierrez, Jose Javier Martinez,
 Salvador Oton, and Jose Ramon Hilera
 Alcala University, Madrid, Spain
- 04:20 - 04:40pm: Telecom Information Tracking Application
 John L. Newman, Ali A. Humos, Tesfa Haile, and Hyunju Kim
 Jackson State University, Jackson, MS, USA
- 04:40 - 05:00pm: A Context-Aware English Learning System Based on Web Services
 Chin-Chih Chang and Hung-Chi Su
 Chung Hua University, Taiwan
 Arkansas State University, USA
- 05:00 - 05:20pm: Conversion of Semi-Structured E-Documents into XML Documents
 Azita Bahrani
 Armstrong Atlantic State University, Savannah, Georgia, USA
- 05:20 - 05:40pm: Online Peer-to-Peer Lending: a Lenders' Perspective
 Michael Klafft
 Fraunhofer ISST, Germany
- 05:40 - 06:00pm: A Software to Manage Risks in Project's Negotiations
 S. A. Rodrigues, M. A. Vaz, and J. M. Souza
 Federal University of Rio, Brazil

ERSA'08 CONFERENCE SCHEDULE

The 2008 International Conference on Engineering of Reconfigurable Systems and Algorithms

Monte Carlo Resort, Las Vegas, Nevada, July 14-17, 2008

Note 1:

There are a number of other sessions (not listed as part of ERSA'08 schedule) that are of significant interest to ERSA conference participants (sessions belonging to other joint conferences in this event.) Therefore, you are encouraged to also check the schedules for other joint conferences. In particular, some sessions in PDPTA'08, GCA'08, CDES'08, ESA'08, and FECS'08, discuss topics that are within the scope of ERSA; these have been scheduled so that ERSA attendees can also participate in them.

Note 2:

Each conference is divided into a number of topical sessions. These sessions are not necessarily scheduled in the same room/location. Therefore, conference attendees are to check the location of the session(s) they wish to attend - The conference room numbers appear in this document.

July 13

03:00 - 09:00pm: REGISTRATION (Second Floor, Conference Lobby; 1-5)

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- 08:30 - 08:45am: WORLDCOMP'08 Opening Remarks
Prof. Hamid R. Arabnia (General Chair & Coordinator)
University of Georgia, Georgia, USA
(LOCATION: Lance Burton Theater)
- 08:45 - 09:35am: Keynote Lecture 1:
The Parallel Computing Landscape: A Berkeley View 2.0
Prof. David A. Patterson
Pardee Prof. of CS; Director, RAD Lab & Par Lab; Past
President, ACM; Member, National Academy of Engineering;
Member, National Academy of Sciences; Fellow of IEEE, ACM,
& AAAS; University of California at Berkeley.
(LOCATION: Lance Burton Theater)
- 09:40 - 10:25am: Keynote Lecture 2:
Searching in the "Real World"
Prof. Ophir Frieder
The Royden B. Davis, SJ, Chair in Interdisciplinary
Studies at Georgetown University; IITRI Chair Professor
of CS at Illinois Institute of Technology; Director,
Information Retrieval lab; Fellow of IEEE, ACM, and AAAS
(LOCATION: Lance Burton Theater)
- 10:30 - 11:15am: Keynote Lecture 3:
Achieving your Dreams
Anousheh Ansari
CEO, Chairman and Co-founder of Prodea Systems, Inc., USA;
Space Ambassador
(LOCATION: Lance Burton Theater)
- 11:15a - 12:00p: Keynote Lecture 4:
Dimensions in Reconfigurable Computing: A New Wave in
Electronic System Designs
Chris Phillips
Vice President of Engineering at ElementCXI, USA
(LOCATION: Lance Burton Theater)
- 12:00 - 01:00pm: LUNCH (On Your Own)

- 01:00 - 01:20pm: Opening and Welcome: Dr. Toomas P Plaks; Conhard Design Ltd.
(LOCATION: Gold Room)
- 01:20 - 02:00pm: ERSA Keynote/Invited Talk:
Multicore Devices: The New Generation of Reconfigurable Architectures
Dr. Steven A. Guccione
Cmpware, Inc., USA
(LOCATION: Gold Room)
- 02:00 - 02:30pm: Invited Paper:
The GOMputer Project: Accelerating GO with FPGAs
Sven D?ohre, Markus Happe, Tobias Kenter, Ulf Lorenz, Marco Platzner,
Tobias Schumacher, Andre Send, Alexander Warkentin
University of Paderborn, Germany
(LOCATION: Gold Room)
- 02:30 - 03:00pm: Invited Paper:
Cellular Automata Architectures
Greg Leeming, Ralph Cavin, and Kosmas Galatsis
Microelectronics Advanced Research Corporation, USA;
Semiconductor Research Corporation, USA;
University of California, Los Angeles, USA
(LOCATION: Gold Room)
- 03:00 - 03:20pm: BREAK

- SESSION 1-ERSA: INVITED SESSION:
NEXT GENERATION RESEARCH CHALLENGES IN RECONFIGURABLE COMPUTING**
Chair: Prof. David Andrews, University of Kansas, USA
July 14, 2008 (Monday); 03:20pm - 05:00pm
(LOCATION: Gold Room)
- 03:20 - 03:40pm: Panel Presentation:
Modeling Abstractions for Next Generation Reconfigurable Computing
David Andrews
University of Kansas, USA
- 03:40 - 04:00pm: Panel Presentation:
Threats and Challenges in Reconfigurable Security
Ryan Kastner and Ted Huffmire
University of California, San Diego, USA
Naval Postgraduate School, Monterey, USA
- 04:00 - 04:20pm: Panel Presentation:
Design Productivity for Configurable Computing
Brent Nelson, Michael Wirthlin, Brad Hutchings, Peter Athanas, Shawn Bohner
Brigham Young University, USA; Virginia Tech, USA
- 04:20 - 04:40pm: Panel Presentation:
FPGAs or Distributed Systems?
Bernard Pottier
University of Bretagne Occidentale, France
- 04:40 - 05:00pm: Panel Presentation:
A New Tact in Reconfigurable Computing Research
John Watson
VP of ElementCXI, California, USA

05:00 - 06:30pm: During this period, ERSAs'08 attendees are encouraged to participate in sessions belonging to PDPTA'08, GCA'08, CDES'08, ESA'08, or FECS'08. These sessions discuss topics that overlap the scope of ERSAs'08.

06:30 - 07:40pm: PANEL
NEXT GENERATION RESEARCH CHALLENGES IN RECONFIGURABLE COMPUTING
Moderator: Prof. David Andrews, University of Kansas, USA
(LOCATION: Gold Room)

07:45 - 08:45pm: POSTER SESSION (Chair: TBA)
(LOCATION: Gold Room)

- 0. Non-Volatile Multi-Context FPGAs Using Hybrid Multiple-Valued/Binary Context Switching Signals
 Masanori Hariyama, Shota Ishihara, Noriaki Idobata, and Michitaka Kameyama; Tohoku University, Japan
- 0. Design of a Cellular Automata ASIC for Conformal Computing
 Mariam Hoseini, Chao You, and Mark Pavicic
 North Dakota State University, USA
- 0. FPGA Schemes with Optimized Routing for the Advanced Encryption Standard
 Jason Van Dyken, Jose G. Delgado-Frias, and Sirisha Medidi
 Washington State University, USA
- 0. Synthesis of Relocatable Tasks and Implementation of a Task Communication Bus in a General Purpose Hardware System
 Angel Luis Gonzalez Bravo, Hortensia Mecha Lopez, Julio Septien del Castillo, Sara Roman Navarro, & Daniel Mozos Munoz
 Universidad Complutense de Madrid, Spain
- 0. Performance Evaluation of FPGA-Based Hardware Accelerator: A Case Study
 Yidong Liu, Srinivasan Santhanam, and Jooheung Lee
 University of Central Florida, USA
- 0. FPGA Resource Management Using Internal RAM as Data Cache
 L. Sanchez, J. Septien, D. Mozos, and H. Mecha
 University Complutense of Madrid, Spain
- 0. Resource Management for Hw Multitasking in Three Dimensional FPGAs
 J. A. Valero, J. Septien, D. Mozos, H. Mecha
 University Complutense of Madrid, Spain

06:00 - 09:00pm: Tutorials (please see the list of tutorials)

09:10 - 11:30pm: CONFERENCE RECEPTION DINNER & BANQUET KEYNOTE - July 14 (Monday)
High Performance Computing and Computational Intelligence: Link to the Translational Medicine and Personalized Healthcare
Dr. Jack Y. Yang and Dr. Mary Qu Yang
Harvard University, Massachusetts, USA and
National Human Genome Research Institute, NIH, Bethesda, USA
(LOCATION: Ballrooms 1-5)

6:45am - 5:00pm: Registration (Second Floor, Conference Lobby: 1-5)

08:00 - 10:40am: During this period, ERSAs'08 attendees are encouraged to participate in sessions belonging to PDPTA'08, GCA'08, CDES'08, ESA'08, or FECS'08. These sessions discuss topics that overlap the scope of ERSAs'08.

SESSION 2-ERSA: RECONFIGURABLE COMPUTING FOR SPACE BASED APPLICATIONS
Chair: Dr. Aravind R. Dasu, Utah State University, USA
July 15, 2008 (Tuesday); 10:40am - 01:20pm
(LOCATION: Gold Room)

10:40 - 11:20am: Distinguished Paper:
TMR with More Frequent Voting for Improved FPGA Reliability
Brian Pratt, Michael Caffrey, Derrick Gibelyou, Paul Graham,
Keith Morgan, and Michael Wirthlin
Brigham Young University, USA; Los Alamos National Laboratory, USA

11:20 - 11:40am: An Introduction to Radiation-Induced Failure Modes and
Mitigation Methods For Xilinx SRAM-Based FPGAs
Heather Quinn, Keith Morgan, Paul Graham, Jim Krone, Michael Caffrey,
and Michael Wirthlin
Los Alamos National Laboratory, USA; Brigham Young University, USA

11:40 - 12:00pm: Multiparadigm Computing for Space-Based Synthetic Aperture Radar
Adam Jacobs, Grzegorz Cieslewski, Casey Reardon, & Alan D. George
University of Florida, USA

12:00 - 12:20pm: Scalable FPGA Architecture for DCT Computation Using Dynamic
Partial Reconfiguration
Jian Huang, Matthew Parris, Jooheung Lee, and Ronald F. DeMara
University of Central Florida, USA

12:20 - 01:20pm: LUNCH (On Your Own)

- 01:20 - 02:00pm: Invited Talk:**
Reconfigurable Mesh Techniques and Applications
Jerry L. Trahan
Louisiana State University, USA
(LOCATION: Gold Room)
- SESSION 3-ERSA: RECONFIGURABLE SYSTEM DESIGN TOOLS AND LANGUAGES**
Chair: Dr. Khaled Benkrid, University of Edinburgh, UK
July 15, 2008 (Tuesday); 02:00pm - 03:20pm
(LOCATION: Gold Room)
- 02:00 - 02:20pm: SystemC-Based Custom Reconfigurable IP Cores for Wireless Applications
Ali Ahmadinia, Balal Ahmad, Ahmet Erdogan, and Tughrul Arslan
The University of Edinburgh, Scotland, United Kingdom
- 02:20 - 02:40pm: Optimizing Pipelining in HDL Generated Automatically From C Source Codes
Wesley Holland and Yoginder S. Dandass
Mississippi State University, USA
- 02:40 - 03:00pm: A Framework to Improve IP Portability on Reconfigurable Computers
Miaoqing Huang, Ivan Gonzalez, Sergio Lopez-Buedo, & Tarek El-Ghazawi
The George Washington University, USA
- 03:00 - 03:20pm: High Level Languages for Reconfigurable Computing: An Equivalent
to Third Generation Software Languages?
Gavin Smith and Grant Wigley
University of South Australia, Australia
- 03:20 - 03:40pm: BREAK**

SESSION 4-ERSA: ADAPTIVE AND DYNAMICALLY RECONFIGURABLE SYSTEMS**Chair: TBA****July 15, 2008 (Tuesday); 03:40pm - 06:00pm****(LOCATION: Gold Room)**

- 03:40 - 04:00pm: Communication and Synchronization in Multithreaded Reconfigurable Computing Systems
Enno Luebbers and Marco Platzner
University of Paderborn, Germany
- 04:00 - 04:20pm: A New High Performance Multi Gigabit String Matching Engine
Adouko G., Charot F., and Wolinski C.
IRISA, INRIA, University of Rennes 1, France
- 04:20 - 04:40pm: System on a Programmable Chip Adaptation Through Active Partial Reconfiguration
Erik Anderson, Matthew French, and Dong-In Kang
University of Southern California, USA
- 04:40 - 05:00pm: A Quantitative Study of the Routing Architecture Exploring Routing Locality Property for Better Performance and Routability
Wai-Chung Tang, Catherine Lin Zhou, and Yu-Liang Wu
CUHK, Hong Kong
- 05:00 - 05:20pm: A New Efficient Architecture for Univariate Polynomial Interpolation Over $GF(2^m)$
Edgar Ferrer and Dorothy Bollman
University of Puerto Rico at Mayaguez, USA
- 05:20 - 05:40pm: FPGA Design Framework for Partial Run-Time Reconfiguration
Chris Conger, Ann Gordon-Ross, and Alan George
University of Florida, USA
- 05:40 - 06:00pm: Elemental Computing
Joseph Hassoun, Steven Kelem, Brian Box, Stephen Wasson, Robert Plunkett, and Chris Phillips
Element CXI, USA

**06:30 - 07:00pm: Industrial Workshop:
Architectural Synthesis for Reconfigurable Computing
Chris Eddington
Synplicity Inc.
(LOCATION: Gold Room)**

**07:15 - 08:45pm: POSTER SESSION FOR SHORT PAPERS (Chair: TBA)
(LOCATION: Gold Room)**

- 0. Dynamically Reconfigurable FFTs for Cognitive Radio on a Multiprocessor Platform
Qiwei Zhang, Karel H. G. Walters, Andre B. J. Kokkeler, and Gerard J. M. Smit
University of Twente, The Netherlands
- 0. SCARS: Scalable Self-Configurable Architecture for Reusable Space Systems
Adarsha Sreeramareddy, Jeff G. Josiah, and Ali Akoglu
University of Arizona, USA
- 0. A 770ns Holographic Reconfiguration of a Four-Contexts DORGA
Mao Nakajima and Minoru Watanabe
Shizuoka University, Japan
- 0. Selection and Use of Programmable Logic in Flight Applications
Gary Block, Paula J. Pingree, and Yunling Lou
Jet Propulsion Laboratory, California Institute of Technology, USA
- 0. High Performance Double Precision Reduction Circuit Implementation in FPGA
Andrea Suardi, Antonio Manenti, and Angelo Geraci
Politecnico di Milan, Italy
- 0. Hardware/Software Co-Designed Extended Kalman Filter on an FPGA
Robert Barnes and Aravind Dasu
Utah State University, USA
- 0. Multi-Criteria Optimization and Performance Measurement of Domain-Specific Reconfigurable Architectures Targeting Image and Video Processing Applications
Arjun K. Pai and Khaled Benkrid
Queen's University Belfast, United Kingdom;
The University of Edinburgh, United Kingdom

06:00 - 09:30pm: Tutorials (please see the list of tutorials)

6:45am - 5:00pm: Registration (Second Floor, Conference Lobby: 1-5)

08:00 - 10:40am: During this period, ERSa'08 attendees are encouraged to participate in sessions belonging to PDPTA'08, GCA'08, CDES'08, ESA'08, or FECS'08. These sessions discuss topics that overlap the scope of ERSa'08.

SESSION 5-ERSA: MULTI-CONTEXT DEVICES AND APPLICATIONS
Chair: Dr. Minoru Watanabe, Shizuoka University, Japan
July 16, 2008 (Wednesday); 10:40am - 12:00pm
(LOCATION: Gold Room)

10:40 - 11:00am: Implementation of a Multi-Context FPGA Based on Flexible-Context-Partitioning
Waidyasooriya Hasitha Muthumala, Masanori Hariyama, & Michitaka Kameyama
Tohoku University, Japan

11:00 - 11:20am: A Method for Capturing State Data on Dynamically Reconfigurable Processors
Vu Manh Tuan and Hideharu Amano
Keio University, Japan

11:20 - 11:40am: Evaluation of MuCCRA-D: A Dynamically Reconfigurable Processor With Directly Interconnected PEs
Masaru Kato, Yohei Hasegawa, and Hideharu Amano
Keio University, Japan

11:40a - 12:00p: MISC: Mono Instruction-Set Computer Based on Dynamic Reconfiguration - Proposal and a 6502 Perspective
Fuminori Kobayashi, Yasuyuki Morikawa and Minoru Watanabe
Kyushu Institute of Tech./Iizuka, Japan; Shizuoka University, Japan

12:00 - 01:00pm: LUNCH (On Your Own)

- SESSION 6-ERSA: APPLICATIONS OF RECONFIGURABLE SYSTEMS AND TOOLS (Chair: TBA)**
July 16, 2008 (Wednesday); 01:00pm - 03:00pm
(LOCATION: Gold Room)
- 01:00 - 01:20pm: Fast Realtime LIDAR Processing on FPGAs
Kuei-Tsung Shih, Arjun Balachandran, Karthik Nagarajan,
Brian Holland, Clint Slatton, and Alan George
University of Florida, USA
- 01:20 - 01:40pm: Gradient Run-Length Data Compression for Real-time Airborne Image
Processing
Zachary K. Baker and Justin L. Tripp
Los Alamos National Laboratory, USA
- 01:40 - 02:00pm: A Hardware Accelerator for k-th Nearest Neighbor Thinning
Tobias Schumacher, Robert Meiche, Paul Kaufmann, Enno Luebbbers,
Christian Plessl, and Marco Platzner
University of Paderborn, Germany
- 02:00 - 02:20pm: Qnet: A Modular Architecture for Reconfigurable Computing
Scott Lloyd and Quinn Snell
Brigham Young University, USA
- 02:20 - 02:40pm: Towards Understanding and Managing the Dynamic Behavior of
Run-Time Reconfigurable Architectures
Kehuai Wu, Esben Rosenlund Hansen, and Jan Madsen
Technical University of Denmark, Denmark
- 02:40 - 03:00pm: **Closing Remarks: Dr. Toomas P. Plaks**
- 03:00 - 03:20pm: **BREAK**
- 03:00 - 06:00pm: **During this period, ERSa'08 attendees are encouraged to participate
in sessions belonging to PDPTA'08, GCA'08, CDES'08, ESA'08, or
FECS'08. These sessions discuss topics that overlap the scope
of ERSa'08.**
- 06:00 - 09:30pm: **Tutorials (please see the list of tutorials)**
-

08:00a - 05:00p: During this period, ERSA'08 attendees are encouraged to participate in sessions belonging to PDPTA'08, GCA'08, CDES'08, ESA'08, or FECS'08. These sessions discuss topics that overlap the scope of ERSA'08.

ESA'08 CONFERENCE SCHEDULE

The 2008 International Conference on Embedded Systems and Applications

Monte Carlo Resort, Las Vegas, Nevada, July 14-17, 2008

Note 1:

There are a number of other sessions (not listed as part of ESA'08 schedule) that are of significant interest to ESA conference participants (sessions belonging to other joint conferences in this event.) Therefore, you are encouraged to also check the schedules for other joint conferences. In particular, some sessions in PDPTA'08, CDES'08, BIOCOMP'08, SERP'08, ICWN'08, SAM'08, FECS'08, CIC'08, and ERSAs'08, discuss topics that are within the scope of ESA; these have been scheduled so that ESA attendees can also participate in them.

Note 2:

Each conference is divided into a number of topical sessions. These sessions are not necessarily scheduled in the same room/location. Therefore, conference attendees are to check the location of the session(s) they wish to attend - The conference room numbers appear in this document.

July 13

03:00 - 09:00pm: REGISTRATION (Second Floor, Conference Lobby; 1-5)

- 6:30am - 5:00pm: Registration (Second Floor, Conference Lobby: 1-5)
- 08:30 - 08:45am: **WORLDCOMP'08 Opening Remarks**
Prof. Hamid R. Arabnia (General Chair & Coordinator)
University of Georgia, Georgia, USA
(LOCATION: Lance Burton Theater)
- 08:45 - 09:35am: **Keynote Lecture 1:**
The Parallel Computing Landscape: A Berkeley View 2.0
Prof. David A. Patterson
Pardee Prof. of CS; Director, RAD Lab & Par Lab; Past
President, ACM; Member, National Academy of Engineering;
Member, National Academy of Sciences; Fellow of IEEE, ACM,
& AAAS; University of California at Berkeley.
(LOCATION: Lance Burton Theater)
- 09:40 - 10:25am: **Keynote Lecture 2:**
Searching in the "Real World"
Prof. Ophir Frieder
The Royden B. Davis, SJ, Chair in Interdisciplinary
Studies at Georgetown University; IITRI Chair Professor
of CS at Illinois Institute of Technology; Director,
Information Retrieval lab; Fellow of IEEE, ACM, and AAAS
(LOCATION: Lance Burton Theater)
- 10:30 - 11:15am: **Keynote Lecture 3:**
Achieving your Dreams
Anousheh Ansari
CEO, Chairman and Co-founder of Prodea Systems, Inc., USA;
Space Ambassador
(LOCATION: Lance Burton Theater)
- 11:15a - 12:00p: **Keynote Lecture 4:**
**Dimensions in Reconfigurable Computing: A New Wave in
Electronic System Designs**
Chris Phillips
Vice President of Engineering at ElementCXI, USA
(LOCATION: Lance Burton Theater)
- 12:00 - 01:00pm: **LUNCH (On Your Own)**
- 01:00 - 05:00pm: **During this period, ESA'08 attendees are encouraged to participate
in sessions belonging to PDPTA'08, CDES'08, BIOCOMP'08, SERP'08,
ICWN'08, SAM'08, FECS'08, CIC'08, or ERSAs'08. These sessions
discuss topics that overlap the scope of ESA'08.**

- SESSION 1-ESA: TOOLS + SYSTEMS AND RELATED ISSUES**
Chair: Prof. Houcine Hassan, Universidad Politecnica de Valencia, Spain
July 14, 2008 (Monday); 05:00pm - 06:20pm
(LOCATION: Copper Room)
- 05:00 - 05:20pm: Achieving Industrial Strength Timing Predictions of Embedded System Behavior
Mikael Nolin, Jukka Maki-Turja, and Kaj Hanninen
Malardalen Real-Time Research Centre (MRTC), Vasteras, Sweden
- 05:20 - 05:40pm: Testing Real-Time Properties of Embedded Systems
Pawel Gburzynski and Bozena Kaminska
University of Alberta, Edmonton, Alberta, Canada
Simon Fraser University, Burnaby, BC, Canada
- 05:40 - 06:00pm: Security Observance Throughout the Life-Cycle of Embedded Systems
Seyyd Hasan Mirjalili and Arjen K. Lenstra
EPFL, Lausanne, Switzerland
- 06:00 - 06:20pm: Flexible Real-time Embedded Architecture for Advanced Service Robots
Jorge Vila, Carlos Dominguez, Houcine Hassan and Alfons Crespo
University Politecnica de Valencia, Spain
- 06:00 - 09:00pm: Tutorials (please see the list of tutorials)
- 09:10 - 11:30pm: CONFERENCE RECEPTION DINNER & BANQUET KEYNOTE - July 14 (Monday)
High Performance Computing and Computational Intelligence: Link to the Translational Medicine and Personalized Healthcare
Dr. Jack Y. Yang and Dr. Mary Qu Yang
Harvard University, Massachusetts, USA and
National Human Genome Research Institute, NIH, Bethesda, USA
(LOCATION: Ballrooms 1-5)
-

6:45am - 5:00pm: Registration (Second Floor, Conference Lobby: 1-5)

08:00a - 12:00p: During this period, ESA'08 attendees are encouraged to participate in sessions belonging to PDPTA'08, CDES'08, BIOCOMP'08, SERP'08, ICWN'08, SAM'08, FECS'08, CIC'08, or ERSAs'08. These sessions discuss topics that overlap the scope of ESA'08.

12:00 - 01:00pm: LUNCH (On Your Own)

- SESSION 2-ESA: NOVEL APPLICATIONS AND ALGORITHMS I**
Chairs: Dr. Bassam Shaer and Dr. Daniel Andresen
University of West Florida, USA
Kansas State University, USA
July 15, 2008 (Tuesday); 01:00pm - 03:00pm
(LOCATION: Copper Room)
- 01:00 - 01:20pm: Embedded Design Considerations for a Wearable Cattle Health Monitoring System
Steve Warren, Daniel Andresen, Daniel Wilson and Seth Hoskins
Kansas State University, USA
- 01:20 - 01:40pm: Mapping Parallel Workload onto Network Processors Using Simulated Annealing
Satish Dechu, Ning Weng, and Benfano Soewito
Southern Illinois University, Carbondale, Illinois, USA
- 01:40 - 02:00pm: A Compact and Affordable BLDC Motor Controller for a Microelectronics Remote Laboratory
Aaron Mohtar, Zorica Nedic, and Jan Machotka
University of South Australia, Australia
- 02:00 - 02:20pm: FREE SLOT
- 02:20 - 02:40pm: An Efficient Prefetching Technique for a Mobile Dictionary
Yang-Sae Moon, Soon-Jung Hong, Hea-Suk Kim, and Jinho Kim
Kangwon National University, Korea
- 02:40 - 03:00pm: Portable Chinese Phonetic Learning System for Hearing-Impaired
Yun-Long Lay, Minder Chen, Chern-Sheng Lin, and Hui- Jen Yang
National Chin-Yi University of Technology, Taiwan;
George Mason University, USA; Feng Chia University, Taiwan

03:00 - 03:40pm: **DISCUSSION SESSION A-ESA (Refreshments will be available)**
July 15, 2008 (Tuesday)
(LOCATION: Hallways - Ballrooms 1-5)

- 0. Dynamic Power Management System Considering Resource Characteristics of Mobile Devices
Kwang-Jung Kim, Chang-Hyeon Park, Myung-Sub Lee, Dong-Ha Lee
Yeungnam University, Korea
- 0. Predicting Power Consumption of CPU's Core for Base Cost of Data Processing Instructions
Andrii Borovyi and Volodymyr Kochan
Ternopil National Economic University, Ukraine
- 0. Smart Wireless Temperature Data Logger
Vivek Kumar Sehgal, Nitin, Rohit Sharma, Vikas Hastir, Yogeshwar Singh Dadwal, Mitesh Bansal, Rohit Puri, Shrey Abhi Pathania, and Abhay Thakur
Jaypee University of Information Technology, India
- 0. An Embedded Platform For GSM/CDMA Controlled Surveillance Robot
Rohit Sharma, Vivek Kumar Sehgal, Nitin, Puneet Dhawan, Anupam Prasad, Manas Srivastava and Ayushi Agarwal
Jaypee University of Information Technology, India
- 0. BIST-Based Group Testing for Diagnosis of Embedded FPGA Cores
Alireza Sarvi, Carthik A. Sharma, and Ronald F. DeMara
Xilinx, Inc., San Jose, California, USA;
University of Central Florida, Orlando, Florida, USA
- 0. Address Code Generation Based on Combined Offset Assignment and Modify Register Optimization for Digital Signal Processors
Kang-Hee Yu, Dong-Hyun Kim, and Jong-Yeol Lee
Chonbuk National University, Korea

- SESSION 3-ESA: NOVEL APPLICATIONS AND ALGORITHMS II**
Chair: Dr. Bassam Shaer, University of West Florida, USA
July 15, 2008 (Tuesday); 03:40pm - 05:20pm
(LOCATION: Copper Room)
- 03:40 - 04:00pm: Application of Embedded System in Remote Vehicle Control Unit
B. Shaer, G. Al Banna, T. McLaughlin and O. Nguyen
University of West Florida, USA
- 04:00 - 04:20pm: Design and Implementation of an Embedded System for Monitoring
and Controlling Light
A. Goswami, T. Bezboruah and K. C. Sarma
Gauhati University, India
- 04:20 - 04:40pm: Ultrasonic Surface Contour Mapping System
Phanisri Ch, Chandrasekhara Sastry A S, Rao G T,
Balasubrahmanyam N, Murty D S; GVPCOE, Visakhapatnam, India
- 04:40 - 05:00pm: Microprocessor Controlled Muscle Stimulation
K. Balasubramanian and A. Cellatoglu
European University of Lefke, Turkey
- 05:00 - 05:20pm: A LAN Based PC Interactive Embedded System for Monitoring and
Controlling Temperature
Siddhartha Baruah, Anjana Kakoty Mahanta, Kanak Ch Sharma
Gauhati University, India

SESSION 4-ESA: TOOLS + SYSTEMS AND RELATED ISSUES

Chair: Dr. Daniel Andresen, Kansas State University, USA

July 15, 2008 (Tuesday); 05:20pm - 06:00pm

(LOCATION: Copper Room)

05:20 - 05:40pm: A Toolkit for Distributed and Parallel Computing in Embedded Systems
Bryan Hughes, Brian Nutter, Per Anderson, and Daniel Cooke
Texas Tech University, Lubbock, Texas, USA

05:40 - 06:00pm: The Need of MTM Interface Specification for the Trusted Mobile Platform
HongIl Ju
Electronics and Telecommunications Research Institute (ETRI), Korea

06:00 - 09:30pm: Tutorials (please see the list of tutorials)

6:45am - 5:00pm: Registration (Second Floor, Conference Lobby: 1-5)

08:00a - 05:00p: During this period, ESA'08 attendees are encouraged to participate in sessions belonging to PDPTA'08, CDES'08, BIOCAMP'08, SERP'08, ICWN'08, SAM'08, FECS'08, CIC'08, or ERSA'08. These sessions discuss topics that overlap the scope of ESA'08.

SESSION 5-ESA: TOOLS + SYSTEMS AND RELATED ISSUES
Chair: Mohamed Watfa, American University of Beirut, Lebanon
July 16, 2008 (Wednesday); 05:00pm - 06:00pm
(LOCATION: Copper Room)

05:00 - 05:20pm: Optimal Dynamic Routing and Flow Control in Interconnection Networks on Chip
Vivek Kumar Sehgal, D. S. Chauhan, Nitin, Abhishek Shreevats, Ankit Khare, Sunny Kapoor, Avishek Gupta, and Abhishek Misra
Jaypee University of Information Technology, India

05:20 - 05:40pm: Debugging of Target Assembly Library Codes Using Host Debugging Tool
Jin-Gu Kang, Won-Yong Yang, and Jong-Yeol Lee
Chonbuk National University, Korea

05:40 - 06:00pm: Optimizing the Value of Preemption in Embedded Sensor Nodes
Mohamed Watfa and Mohamed Moubarak
American University of Beirut, Lebanon

06:00 - 09:30pm: Tutorials (please see the list of tutorials)

6:45am - 5:00pm: Registration (Second Floor, Conference Lobby: 1-5)

08:00a - 12:00p: During this period, ESA'08 attendees are encouraged to participate in sessions belonging to PDPTA'08, CDES'08, BIOCAMP'08, SERP'08, ICWN'08, SAM'08, FECS'08, CIC'08, or ERSA'08. These sessions discuss topics that overlap the scope of ESA'08.

12:00 - 01:00pm: LUNCH (On Your Own)

- SESSION 6-ESA: POWER EFFICIENCY POWER MANAGEMENT AND RELATED ISSUES**
Chair: Prof. Jong Tae Kim, Sungkyunkwan University, Republic of Korea
July 17, 2008 (Thursday); 01:00pm - 03:00pm
(LOCATION: Copper Room)
- 01:00 - 01:20pm: A Technique to Save More Energy Using Redundant Processors
in Hard Real-Time Systems with DVS
Hosung Song
University of Wisconsin - Green Bay, Wisconsin, USA
- 01:20 - 01:40pm: A New Approach for Inter Networks-on-Chip Communication in
Networks-in-Package
Vivek Kumar Sehgal, Nitin, and D. S. Chauhan
Jaypee University of Information Technology, India
- 01:40 - 02:00pm: On the Energy Efficiency of Java Virtual Machine
Yu Sun and Wei Zhang
Southern Illinois University Carbondale, USA
- 02:00 - 02:20pm: A Smoothing Method for Power Management
Seok Jin Byeon, Hyek Seong Kweon, and Byoungchul Ahn
Yeungnam University, GyungSan, Korea
- 02:20 - 02:40pm: Power Prediction of Application Software for Embedded System
Based on PXA270 Processor
Soongyu Kwon, Hojun Kim, Chaeseok Lim, Dae Jin Bae, and Jong Tae Kim
Sungkyunkwan University, Republic of Korea
- 02:40 - 03:00pm: FREE SLOT

03:00 - 03:40pm: **DISCUSSION SESSION B-ESA (Refreshments will be available)**
July 17, 2008 (Thursday)
(LOCATION: Hallways - Ballrooms 1-5)

- 0. Autonomous CHEF-BOT
M. Jambulingam, P. Chembian, Jesly Jose, and Aravindh Ganesh; India
- 0. An Implementation of RTD-1000A Based on ARM Processor
Minho Kim and InSik Hong; Soonchunhyang University, Korea
- 0. Inter-Range Instrumentation Group (IRIG)-B Binary Decoder Unit
Bassam Shaer, Jay M. Lalik Sr., and Carl Antonik Jr.
University of West Florida, Pensacola, Florida, USA
- 0. Analysis of Time and Frequency Domain Performance of MFIR Filters
Jean-Jacques Vandenbussche, Peter Lee and Joan Peuteman
University of Kent, UK
- 0. Teaching Embedded System at the Freshman Year Starting from
Requirements
John Hadjilojiou, Jimmy Garcia, and Javier Handal
Florida Institute of Technology, USA

- SESSION 7-ESA: TOOLS + SYSTEMS AND RELATED ISSUES**
Chairs: Dr. Vadim Geurkov and Prof. Tulin Mangir
Ryerson University, Toronto, Canada
Director, Nanotechnology & Wireless Communications Labs, CSULB, USA
July 17, 2008 (Thursday); 03:40pm - 06:20pm
(LOCATION: Copper Room)
- 03:40 - 04:00pm: A Comparison of Traditional On-Chip Interconnects with Network-on-Chip Architecture
Tulin Mangir and Sanjit Kurup
California State University, USA; Qualcomm CDMA Technologies, USA
- 04:00 - 04:20pm: Short-code Threading: a Memory-Saving and Efficient Approach to Accelerate the Token Threaded Code for embedded Systems
Ting-Wei Hou, Fuh-Gwo Chen, and Chin-Yang Lin
National Cheng Kung University, Taiwan; Hungkuang University, Taiwan
- 04:20 - 04:40pm: Testing Digital Systems by Error-Locating Codes
V. Geurkov
Ryerson University - ELCE, Canada
- 04:40 - 05:00pm: Real-Time Communication Support for Embedded Linux over Ethernet
Sang-Hun Lee and Hyun-Wook Jin
Konkuk University, Korea
- 05:00 - 05:20pm: Enabling Uniform CPU Allocation in the Presence of System Dynamics: Implementation and Experimental Evaluation
Frank Drews, William Leal, Pradeep K. Srinivasan
The Ohio State University, USA
- 05:20 - 05:40pm: A Middleware for Model-Based Embedded Systems
Wolfgang Haberl, Jan Birke and Uwe Baumgarten
Institut für Informatik, Germany
- 05:40 - 06:00pm: Java-Programmed Bootloading in Spite of Load-Time Code Patching on a Minimal Embedded Bytecode Processor
Thomas B. Preusser and Rainer G. Spallek
Technische Universität Dresden, Germany
- 06:00 - 06:20pm: Automatic Generation of Optimal Binary Codes for Real-Time Embedded Systems
Kiyofumi Tanaka and Kouhei Hayashi
Japan Advanced Institute of Science and Tech., Japan

FCS'08 CONFERENCE SCHEDULE

The 2008 International Conference on Foundations of Computer Science

Monte Carlo Resort, Las Vegas, Nevada, July 14-17, 2008

Note 1:

There are a number of other sessions (not listed as part of FCS'08 schedule) that are of significant interest to FCS conference participants (sessions belonging to other joint conferences in this event.) Therefore, you are encouraged to also check the schedules for other joint conferences. In particular, some sessions in PDPTA'08, BIOCOMP'08, CSC'08, GEM'08, ITSL'08, MSV'08, IKE'08, and FECS'08, discuss topics that are within the scope of FCS; these have been scheduled so that FCS attendees can also participate in them.

Note 2:

Each conference is divided into a number of topical sessions. These sessions are not necessarily scheduled in the same room/location. Therefore, conference attendees are to check the location of the session(s) they wish to attend - The conference room numbers appear in this document.

July 13

03:00 - 09:00pm: REGISTRATION (Second Floor, Conference Lobby; 1-5)

- 6:30am - 5:00pm: Registration (Second Floor, Conference Lobby: 1-5)
- 08:30 - 08:45am: WORLDCOMP'08 Opening Remarks
Prof. Hamid R. Arabnia (General Chair & Coordinator)
University of Georgia, Georgia, USA
(LOCATION: Lance Burton Theater)
- 08:45 - 09:35am: Keynote Lecture 1:
The Parallel Computing Landscape: A Berkeley View 2.0
Prof. David A. Patterson
Pardee Prof. of CS; Director, RAD Lab & Par Lab; Past
President, ACM; Member, National Academy of Engineering;
Member, National Academy of Sciences; Fellow of IEEE, ACM,
& AAAS; University of California at Berkeley.
(LOCATION: Lance Burton Theater)
- 09:40 - 10:25am: Keynote Lecture 2:
Searching in the "Real World"
Prof. Ophir Frieder
The Royden B. Davis, SJ, Chair in Interdisciplinary
Studies at Georgetown University; IITRI Chair Professor
of CS at Illinois Institute of Technology; Director,
Information Retrieval lab; Fellow of IEEE, ACM, and AAAS
(LOCATION: Lance Burton Theater)
- 10:30 - 11:15am: Keynote Lecture 3:
Achieving your Dreams
Anousheh Ansari
CEO, Chairman and Co-founder of Prodea Systems, Inc., USA;
Space Ambassador
(LOCATION: Lance Burton Theater)
- 11:15a - 12:00p: Keynote Lecture 4:
Dimensions in Reconfigurable Computing: A New Wave in
Electronic System Designs
Chris Phillips
Vice President of Engineering at ElementCXI, USA
(LOCATION: Lance Burton Theater)
- 12:00 - 12:40pm: LUNCH (On Your Own)

12:40 - 01:20pm: **DISCUSSION SESSION A-FCS (Refreshments will be available)**
July 14 (Monday)
(LOCATION: Hallways - Ballrooms 1-5)

- 0. The Pan-Weight System And Its Pan-Weight Reduction In Pansystems Theory
Wenlong Gao, Yongli Li, and Linhe
Lanzhou University, China
- 0. An Application of Pansystems Methodology to Path's Searching
Problems Solving
Pei Li Zhou and Jiang Yu
Monash University, Melbourne, Victoria, Australia;
Chengdu University of Information Technology, Chengdu, P. R. China
- 0. A Process Algebra for Specification and Analysis of Temporal
Properties of Agents Distributed over Networked Space
Jinho On, Jungrhan Choi, Moonkun Lee
Chonbuk National University, Korea
- 0. Development of a Scheduler for Hard Real-Time Emergency Medical
Systems Over Networked Space in a Process Algebra
Sujeong U, Gihwan Cho, and Moonkun Lee
Chonbuk National University, Korea

- SESSION 1-FCS: GRAPHS AND NETWORKS + AUTOMATA + FORMAL METHODS + LOGIC**
Chair: Chetan Yadati Narasimha, TUDelft, The Netherlands
July 14, 2008 (Monday); 01:20pm - 04:00pm
(LOCATION: Silver Room)
- 01:20 - 01:40pm: On Disjoint Connecting Paths and Unsplittable Flow
Andras Farago
University of Texas at Dallas, USA
- 01:40 - 02:00pm: Group Connectivity of Graphs Satisfying Ore-Condition
Jianhua Yin and Rui Xu
Hainan University, China; University of West Georgia, USA
- 02:00 - 02:20pm: Disjoint Cycles and Chorded Cycles in Graphs
Yunshu Gao, Guojun Li, Jin Yan, and Jonathan Z. Sun
University of Southern Mississippi, Mississippi, USA;
Shandong University, Jinan, P. R. China
- 02:20 - 02:40pm: Enumerating Circuits and Loops in Graphs with Self-Arcs and Multiple Arcs
K. A. Hawick and H. A. James
Massey University - Albany, Auckland, New Zealand
South Australian Partnership for Advanced Computing (SAPAC), Australia
- 02:40 - 03:00pm: Advances on C-Planarity Testing of Extrovert C-Graphs
Jonathan Z. Sun and Chaoyang Zhang
University of Southern Mississippi, USA
- 03:00 - 03:20pm: Formalizing MOF-Metamodels
Liliana Favre
Universidad Nacional del Centro de la Provincia de Buenos Aires, Argentina
- 03:20 - 03:40pm: A Quantum Algorithm for Real Time Rendering
Guntis Deksnis, Rusins Freivalds, Oksana Scegulnaja-Dubrovskaja,
Ruslan Tarasov and Solvita Zarina
University of Latvia, Latvia
- 03:40 - 04:00pm: Interconnection Graph Problem
Hongbing Fan and Yu-Liang Wu
Wilfrid Laurier University, Canada
- 04:00 - 06:00pm: **During this period, FCS'08 attendees are encouraged to participate in sessions belonging to PDPTA'08, BIOCAMP'08, CSC'08, GEM'08, ITSL'08, MSV'08, IKE'08, or FECS'08. These sessions discuss topics that overlap the scope of FCS'08.**
- 06:00 - 09:00pm: **Tutorials (please see the list of tutorials)**
- 09:10 - 11:30pm: **CONFERENCE RECEPTION DINNER & BANQUET KEYNOTE - July 14 (Monday)**
High Performance Computing and Computational Intelligence: Link to the Translational Medicine and Personalized Healthcare
Dr. Jack Y. Yang and Dr. Mary Qu Yang
Harvard University, Massachusetts, USA and
National Human Genome Research Institute, NIH, Bethesda, USA
(LOCATION: Ballrooms 1-5)
-

6:45am - 5:00pm: Registration (Second Floor, Conference Lobby: 1-5)

SESSION 2-FCS: ALGORITHMS AND APPLICATIONS
 Chairs: Prof. Reza Ahangar and Dr. Charlie Obimbo
 Texas A&M University-Kingsville, Texas, USA
 University of Guelph, Canada
 July 15, 2008 (Tuesday); 08:00am - 10:20am
 (LOCATION: Silver Room)

08:00 - 08:20am: Autonomous Scheduling
 Chetan Yadati, Cees Witteveen, Yingqian Zhang, Mengxiao Wu,
 and Han la Poutre
 Delft University of Technology, Delft, The Netherlands;
 Centrum voor Wiskunde Informatica, Amsterdam, The Netherlands

08:20 - 08:40am: Computing The Number of Rational Points - Applications to
 AG Coding Theory
 Robert J. McEliece and M. C. Rodriguez-Palanquex
 California Institute of Technology, Pasadena, California, USA;
 Universidad Complutense de Madrid, Madrid, Spain

08:40 - 09:00am: Solving Minimum B-Vertex Separator Problems in the
 Adleman-Lipton Model
 Ardashir Dolati, M. S. Haghghat, Hajar Mozaffar, Amin Khatami,
 and Saeed Safaei
 Shahed University, Tehran, Iran; Arak University, Iran;
 Cincinnati University, USA

09:00 - 09:20am: Secure and Efficient Multi-Secret Sharing Schemes with General
 Access Structures
 Jennifer Hui-Chan Tsai and Justie Su-Tzu Juan

09:20 - 09:40am: Fast Unison in Arbitrary Rooted Networks
 Christian Boulinier
 University of Picardie Jules Verne, France

09:40 - 10:00am: The Use Of Prime Residues As A Block Erasure Code With Linear Decoding
 Time
 James A. Moorer
 Adobe Systems, Incorporated, USA

10:00 - 10:20am: FREE SLOT

10:20 - 10:40am: BREAK

10:40a - 03:00p: During this period, FCS'08 attendees are encouraged to participate
 in sessions belonging to PDPTA'08, BIOCOMP'08, CSC'08, GEM'08,
 ITSL'08, MSV'08, IKE'08, or FECS'08. These sessions discuss topics
 that overlap the scope of FCS'08.

**03:00 - 03:40pm: DISCUSSION SESSION B-FCS (Refreshments will be available)
July 15, 2008 (Tuesday)
(LOCATION: Hallways - Ballrooms 1-5)**

- O. The Size of Integers that a Computer can Take
Wei-hu Hong and Ming-shen Wu
Clayton State University, Morrow, Georgia, USA;
University of Wisconsin, Stout, Wisconsin, USA
- O. Generalization of Reduction in Rough Sets Based on the Views of
Pansystems
He Lin and Xiao-xu Li; Lanzhou University, Gansu, P. R. China
- O. Research of Decision Rule in Rough Sets Based on Pansystems View
Xiao-xu Li and Yong-li Li
Lanzhou University, Gansu, P. R. China
- O. Efficient Searching Algorithms for Multi-Dimensional Space Data
Using Hilbert Space-Filling Curves
Chih-Sheng Chen, Jan-Yi Liang, Yi-Kun Lee, Min-Hsuan Fan and
Chua-Huang Huang, ...; Feng Chia University, Taiwan

03:40 - 06:00pm: During this period, FCS'08 attendees are encouraged to participate in sessions belonging to PDPTA'08, BIOCOMP'08, CSC'08, GEM'08, ITSL'08, MSV'08, IKE'08, or FECS'08. These sessions discuss topics that overlap the scope of FCS'08.

06:00 - 09:30pm: Tutorials (please see the list of tutorials)

6:45am - 5:00pm: Registration (Second Floor, Conference Lobby: 1-5)

08:00 - 10:40am: During this period, FCS'08 attendees are encouraged to participate in sessions belonging to PDPTA'08, BIOCOMP'08, CSC'08, GEM'08, ITSL'08, MSV'08, IKE'08, or FECS'08. These sessions discuss topics that overlap the scope of FCS'08.

- SESSION 3-FCS: **ALGORITHMS AND APPLICATIONS**
 Chairs: Prof. Leszek Kotulski and Prof. Seonggyu Kim
 AGH University of Science and Technology, Poland
 Anyang University, Korea
 July 16, 2008 (Wednesday); 10:40am - 11:40am
 (LOCATION: Silver Room)
- 10:40 - 11:00am: Stirling Numbers of the Second Kind and Primality
 Joe DeMaio
 Kennesaw State University, Kennesaw, Georgia, USA
- 11:00 - 11:20am: FREE SLOT
- 11:20 - 11:40am: NP-Hardness of the Sorting Buffer Problem on the Uniform Metric
 Yuichi Asahiro, Kenichi Kawahara, and Eiji Miyano
 Kyushu Sangyo University, Japan

- SESSION 4-FCS: INTERESTING RESULTS, NEW MODELS, AND METHODOLOGIES**
Chair: Ion Mierlus Mazilu
Technical University of Civil Engineering, Bucharest, Romania
July 16, 2008 (Wednesday); 11:40am - 12:40pm
(LOCATION: Silver Room)
- 11:40 - 12:00pm: Demonic Semantics: Are Equal
Fairouz Tchier
King Saud University, Saudi Arabia
- 12:00 - 12:20pm: Statistical Characterization of NP-Complete Problems
Jeffrey L. Duffany
Universidad del Turabo, PR
- 12:20 - 12:40pm: Optimal Control Solution to Nonlinear Causal Operator Systems
with Target State
Reza R. Ahangar
Texas A&M University, USA
- 12:40 - 02:00pm: **LUNCH (On Your Own)**

02:00 - 03:00pm: During this period, FCS'08 attendees are encouraged to participate in sessions belonging to PDPTA'08, BIOCAMP'08, CSC'08, GEM'08, ITSL'08, MSV'08, IKE'08, or FECS'08. These sessions discuss topics that overlap the scope of FCS'08.

03:00 - 03:40pm: DISCUSSION SESSION C-FCS (Refreshments will be available)
July 16, 2008 (Wednesday)
(LOCATION: Hallways - Ballrooms 1-5)

- 0. Matrix Cipher and Its Application in Computer Security
Ngoc-Bao Tran and Dinh-Thuc Nguyen
HCM City University of Pedagogy, Vietnam
- 0. Applying the Theory of Optimization Ordering to Devices with Limited Memory
Deborah Whitfield; Slippery Rock University, USA
- 0. On a Generalization of Hilbert's Inequality and its Applications
Baoju Sun
- 0. Agent Framework for Decomposing a Graph into the Equally Sized Subgraphs
Leszek Kotulski and Adam Sedziwy
Krakow, Poland
- 0. Solving Minimum K-Center Problem Adleman-Lipton Model
Saeed Safaei, Hajar Mozaffar, and Babak Esmaeili
Arak University, Iran; Isfahan University, Isfahan, Iran
- 0. Approximating the Vertex Cover Problem by Selection of Nodes of Maximum Degrees for use in Wireless Sensor Networks
Charlie Obimbo; University of Guelph, Canada
- 0. Fourier Transforms for Difference Operators
Yang Zhang; DePaul University, USA

03:40 - 06:00pm: During this period, FCS'08 attendees are encouraged to participate in sessions belonging to PDPTA'08, BIOCAMP'08, CSC'08, GEM'08, ITSL'08, MSV'08, IKE'08, or FECS'08. These sessions discuss topics that overlap the scope of FCS'08.

08:00a - 05:00p: During this period, FCS'08 attendees are encouraged to participate in sessions belonging to PDPTA'08, BIOCOMP'08, CSC'08, GEM'08, ITSL'08, MSV'08, IKE'08, or FECS'08. These sessions discuss topics that overlap the scope of FCS'08.

FECS'08 CONFERENCE SCHEDULE

The 2008 International Conference on Frontiers in Education: Computer Science and Computer Engineering

Monte Carlo Resort, Las Vegas, Nevada, July 14-17, 2008

Note 1:

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Note 2:

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July 13

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- 08:30 - 08:45am: WORLDCOMP'08 Opening Remarks
Prof. Hamid R. Arabnia (General Chair & Coordinator)
University of Georgia, Georgia, USA
(LOCATION: Lance Burton Theater)
- 08:45 - 09:35am: Keynote Lecture 1:
The Parallel Computing Landscape: A Berkeley View 2.0
Prof. David A. Patterson
Pardee Prof. of CS; Director, RAD Lab & Par Lab; Past
President, ACM; Member, National Academy of Engineering;
Member, National Academy of Sciences; Fellow of IEEE, ACM,
& AAAS; University of California at Berkeley.
(LOCATION: Lance Burton Theater)
- 09:40 - 10:25am: Keynote Lecture 2:
Searching in the "Real World"
Prof. Ophir Frieder
The Royden B. Davis, SJ, Chair in Interdisciplinary
Studies at Georgetown University; IITRI Chair Professor
of CS at Illinois Institute of Technology; Director,
Information Retrieval lab; Fellow of IEEE, ACM, and AAAS
(LOCATION: Lance Burton Theater)
- 10:30 - 11:15am: Keynote Lecture 3:
Achieving your Dreams
Anousheh Ansari
CEO, Chairman and Co-founder of Prodea Systems, Inc., USA;
Space Ambassador
(LOCATION: Lance Burton Theater)
- 11:15a - 12:00p: Keynote Lecture 4:
Dimensions in Reconfigurable Computing: A New Wave in
Electronic System Designs
Chris Phillips
Vice President of Engineering at ElementCXI, USA
(LOCATION: Lance Burton Theater)
- 12:00 - 12:40pm: LUNCH (On Your Own)

12:40 - 01:20pm: **DISCUSSION SESSION A-FECS (Refreshments will be available)**
July 14 (Monday)
(LOCATION: Hallways - Ballrooms 1-5)

- 0. Lessons Learned from the First-Time ABET Accreditation Process at a Small HBCU
Giti Javidi, Dawit Haile, and Huiqing H. Yang
Virginia State University, USA
- 0. Monitoring Students' Progress in Software Engineering Courses
Hassan Pournaghshband and Shahriar Movafaghi
Southern Polytechnic State University, USA
Southern New Hampshire University, USA
- 0. Embedded Assessment of Microcomputer Fundamentals for Embedded Systems Education
William A. Stapleton
Texas State University - San Marcos, USA
- 0. Preparing Graduates for Industry
Manoj Manuja and Anuradha Verma
Infosys Technologies Ltd., India
- 0. Teaching an Introductory Programming Course in a Virtual World
John Sigle
Louisiana State University in Shreveport, Louisiana, USA

SESSION 1-FECS: ACCREDITATION

**Chair: Prof. Art Gittleman, California State University Long Beach, USA
July 14, 2008 (Monday); 01:20pm - 03:00pm
(LOCATION: Platinum Room)**

- 01:20 - 01:40pm: Accreditation of a CS Program Under Emerging Criteria
Laxmi P. Gewali and John T. Minor
University of Nevada, Las Vegas, Nevada, USA
- 01:40 - 02:00pm: CS1 for an Early College Program
Chaya Gurwitz and Theodore Raphan
Brooklyn College of CUNY, Brooklyn, New York, USA
- 02:00 - 02:20pm: Will There Ever be Consensus on CS1?
Robert M. Siegfried, David Chays and Katherine G. Herbert
Adelphi University, USA
- 02:20 - 02:40pm: Predicting Proficiency of Computer Literacy Based on
Student's Characteristics
Soojung Lee
Gyeongin National University of Education, Kyunggi-do, Korea
- 02:40 - 03:00pm: Making a Case for Scripting Languages in CS 1
Augustine Ikeji
Eastern Michigan University, Ypsilanti, Michigan, USA
- 03:00 - 03:20pm: BREAK**

03:20 - 04:40pm: During this period, FECS'08 attendees are encouraged to participate in sessions belonging to SERP'08, MSV'08, CGVR'08, ICOMP'08, SWWS'08, SAM'08, EEE'08, or FCS'08. These sessions discuss topics that overlap the scope of FECS'08.

SESSION 2-FECS: EDUCATION AND THE WEB
Chairs: Dr. Shahriar Movafaghi and Felix Bollou
Southern New Hampshire University, USA
American University of Nigeria, Yola, Nigeria
July 14, 2008 (Monday); 04:40pm - 05:20pm
(LOCATION: Platinum Room)

04:40 - 05:00pm: Personalized Web Search Based on the Understanding Level of a User
Soojung Lee
Gyeongin National University of Education, Kyunggi-do, Korea

05:00 - 05:20pm: Use of Online Learning and new Evaluation Techniques for the Reduction of Specific Conceptual Shortcomings in Basic Disciplines, for Students of Engineering Courses, Using Moodle
Paulo A. Garcia, Jose Sidnei C. Martini, Marcos Stefanelli Vieira, and Gilberto Teixeira da Silva
Universidade Presbiteriana Mackenzie, Brazil

- SESSION 3-FECS: TOOLS AND EMULATORS**
Chairs: Dr. Daren Wilcox and Felix Bollou
Southern Polytechnic State University, USA
American University of Nigeria, Yola, Nigeria
July 14, 2008 (Monday); 05:20pm - 06:00pm
(LOCATION: Platinum Room)
- 05:20 - 05:40pm: **Computers and Physical Construction: Blending Fabrication into Computer Science Education**
Michael Eisenberg, Ann Eisenberg, Leah Buechley, and Nwanua Elumeze
University of Colorado, Boulder, Colorado, USA
- 05:40 - 06:00pm: **Dirac Delta in MATLAB**
M. Legua, I. Morales, and L. M. Sanchez Ruiz
ETSIA - Universidad Politecnica de Valencia, Spain
CPS - Universidad de Zaragoza, Spain
- 06:00 - 09:00pm: **Tutorials (please see the list of tutorials)**
- 09:10 - 11:30pm: **CONFERENCE RECEPTION DINNER & BANQUET KEYNOTE - July 14 (Monday)**
High Performance Computing and Computational Intelligence: Link to the Translational Medicine and Personalized Healthcare
Dr. Jack Y. Yang and Dr. Mary Qu Yang
Harvard University, Massachusetts, USA and
National Human Genome Research Institute, NIH, Bethesda, USA
(LOCATION: Ballrooms 1-5)
-

6:45am - 5:00pm: Registration (Second Floor, Conference Lobby: 1-5)

SESSION 4-FECS: SOFTWARE AND SOFTWARE ENGINEERING
Chairs: Dr. Donald R. Schwartz and Prof. Boleslaw Mikolajczak
Millsaps College, Jackson, MS, USA
University of Massachusetts Dartmouth, USA
July 15, 2008 (Tuesday); 08:00am - 09:40am
(LOCATION: Platinum Room)

08:00 - 08:20am: Teaching Software Modeling and Design Based on Relevant
Science of Software and Science of Learning
Sukhamay Kundu
Louisiana State University, USA

08:20 - 08:40am: General Software Competency: Is There Still a Need for
Software Training?
Laurie J. Patterson
University of North Carolina Wilmington, USA

08:40 - 09:00am: The Role of Software Entrepreneurship in Computer Science Curriculum
Kevin Daimi and Nassif Rayess
University of Detroit Mercy, USA

09:00 - 09:20am: The Real Value of Software Engineering in a Computer Science
Program (The Use of Case Studies and Projects)
Stuart Steele
Polytechnic University, USA

09:20 - 09:40am: CLOWNS - A Software Engineering Semester Project Currently
In-Use in Kindergarten Classes
Donald R. Schwartz
Millsaps College, USA

- SESSION 5-FECS: EVALUATION STRATEGIES + WEB-BASED SOFTWARE+ OTHER CS & CE EDUCATIONAL ISSUES**
Chair: Dr. Laurie J. Patterson, University of North Carolina Wilmington, USA
July 15, 2008 (Tuesday); 09:40am - 10:40am
(LOCATION: Platinum Room)
- 09:40 - 10:00am: Engaging Students in Computer Science Through Interdisciplinary Seminars
Karen Anewalt and Jennifer Polack
University of Mary Washington, USA
- 10:00 - 10:20am: Universal Instructional Design, Learning Styles and the Computing Classroom
Rebecca H. Rutherford and James Rutherford
Southern Polytechnic State University, Marietta, Georgia, USA
- 10:20 - 10:40am: A UML-Based Metric Approach to Estimate Total Effort Using Software Project Designs
Jeff Gordon; USA
- 10:40 - 11:00am: BREAK**
- 11:00a - 12:00p: During this period, FECS'08 attendees are encouraged to participate in sessions belonging to SERP'08, MSV'08, CGVR'08, ICOMP'08, SWS'08, SAM'08, EEE'08, or FCS'08. These sessions discuss topics that overlap the scope of FECS'08.**
- 12:00 - 01:00pm: LUNCH (On Your Own)**

- SESSION 6-FECS: EVALUATION STRATEGIES + WEB-BASED SOFTWARE+ OTHER CS & CE EDUCATIONAL ISSUES**
Chairs: Steele A. Russell and Chu J. Jong
Southeastern Louisiana University, USA
Illinois State University, Illinois, USA
July 15, 2008 (Tuesday); 01:00pm - 03:00pm
(LOCATION: Platinum Room)
- 01:00 - 01:20pm: FREE SLOT
- 01:20 - 01:40pm: Towards The Balance of Computer Science Curriculum
Yen-Hung Hu and Jean Muhammad
Hampton University, Hampton, Virginia, USA
- 01:40 - 02:00pm: A Software Development Capability GPA to Represent Student's Proficiency in Software Development
Rochelle Elva and David Workman
University of Central Florida, Orlando, Florida, USA
- 02:00 - 02:20pm: Understanding the Effectiveness of Problem-Based Learning Through the Lens of Boundary Objects
Timothy Olsen and Stefanie Markham
Georgia State University, Atlanta, Georgia, USA
- 02:20 - 02:40pm: Assessment of Student Performance in an Internet-Based Multimedia Classroom
Stephen Turner and Michael Farmer
University of Michigan-Flint, Michigan, USA
- 02:40 - 03:00pm: Multi-Lateral Constructive Learning Process with Hands-On Problem-Based Solving Technology
Chu J. Jong
Illinois State University, Illinois, USA

**03:00 - 03:40pm: DISCUSSION SESSION B-FECS (Refreshments will be available)
July 15, 2008 (Tuesday)
(LOCATION: Hallways - Ballrooms 1-5)**

- 0. The Development and Evaluation of Game Type Computer-Aided Phoneme Learning System for Hearing Impaired
Hui-Jen Yang, Minder Chen, and Yun-Long Lay
National Chin-Yi University of Technology, Taiwan;
George Mason University, Fairfax, Virginia, USA
- 0. Game Programming Production: A Practical Approach
Ziping Liu
Southeast Missouri State University, Missouri, USA
- 0. Game Programming Projects
Art Gittleman
California State University Long Beach, USA
- 0. Can Remote Laboratories Offer Collaborative Learning Environment?
Jan Machotka, Zorica Nedic and Aaron Mohtar
University of South Australia, Australia
- 0. Computer Science Students' Online Learning Experience and Workload: Perception versus Reality
Leann Christianson and Kevin Brown
California State University East Bay, California, USA

03:40 - 06:00pm: During this period, FECS'08 attendees are encouraged to participate in sessions belonging to SERP'08, MSV'08, CGVR'08, ICOMP'08, SWWS'08, SAM'08, EEE'08, or FCS'08. These sessions discuss topics that overlap the scope of FECS'08.

06:00 - 09:30pm: Tutorials (please see the list of tutorials)

6:45am - 5:00pm: Registration (Second Floor, Conference Lobby: 1-5)

08:00 - 10:20am: During this period, FECS'08 attendees are encouraged to participate in sessions belonging to SERP'08, MSV'08, CGVR'08, ICOMP'08, SWS'08, SAM'08, EEE'08, or FCS'08. These sessions discuss topics that overlap the scope of FECS'08.

SESSION 7-FECS: EVALUATION STRATEGIES + WEB-BASED SOFTWARE + OTHER CS AND CE EDUCATIONAL ISSUES

**Chair: Rochelle Elva, University of Central Florida, USA
July 16, 2008 (Wednesday); 10:20am - 11:00am
(LOCATION: Platinum Room)**

10:20 - 10:40am: Using Weighted Directed Graphs for Test Path Selection
Jack Ryder
Kean University, New Jersey, USA

10:40 - 11:00am: Exploring the Use of Virtual Synchronous Sessions in an
Online Foundational Programming Course
Eman El-Sheikh, John W. Coffey, and Laura J. White
University of West Florida, USA

- SESSION 8-FECS: COLLABORATIVE LEARNING AND LEARNING TECHNIQUES**
Chair: Dr. Ziping Liu, Southeast Missouri State University, USA
July 16, 2008 (Wednesday); 11:00am - 12:40pm
(LOCATION: Platinum Room)
- 11:00 - 11:20am: **Snack Attack: An Exploration of Collaborative Learning**
 James D Tyson, James C Kriigel, Jon Preston, Byron Jeff, Junfeng Qu
 Clayton State University, USA
- 11:20 - 11:40am: **Inclusion of Podcasting in a Computer Ethics Course**
 Steele Russell and Troy Kammerdiener
 Southeastern Louisiana University, USA
- 11:40 - 12:00pm: **War For Talent: Re-aligning Academic Pursuits with what Business Demands**
 Shekhar Murthy and Padmaja N
 Satyam Technology Centre Satyam Learning Centre, India
- 12:00 - 12:20pm: **Net4Voice - New Technologies for Voice-Converting in Barrier-Free Learning Environment**
 Daniela Tibaldi, Raffaella Primiani and Luca Garlaschelli
 Alma Mater Studiorum Universita di Bologna, Italy
- 12:20 - 12:40pm: **The Development of Computer-Aided Magnifer System with Digital Zooming for Eye-Impaired**
 Hui-Jen Yang, Yun-Long Lay, Chern-Sheng Lin, Minder Chen, and Bing-Feng Li Chen
 National Chin-Yi University of Technology, Taiwan
 Feng Chia University, Taiwan; George Mason University, USA
- 12:40 - 01:40pm: **LUNCH (On Your Own)**
- 01:40 - 03:00pm: **During this period, FECS'08 attendees are encouraged to participate in sessions belonging to SERP'08, MSV'08, CGVR'08, ICOMP'08, SWS'08, SAM'08, EEE'08, or FCS'08. These sessions discuss topics that overlap the scope of FECS'08.**

03:00 - 03:40pm: DISCUSSION SESSION C-FECS (Refreshments will be available)
July 16, 2008 (Wednesday)
(LOCATION: Hallways - Ballrooms 1-5)

- 0. Construction of Multi Queries and Consistency Principal for Emotion-Based Image Retrieval
Eun-Jong Park and Joon-Whoan Lee
Chonbuk National University, Korea
- 0. An Emotion-Based Image Retrieval System Based on CBIR
Joon-Whoan Lee, Lei Zhang, and Eun-Jong Park
Chonbuk National University, Korea
- 0. Small Dataset Size Clustering in MASCE
Hani Mahdi and Sally S. Attia
Ain Shams University, Egypt
- 0. A Learning Model for Discrete Mathematics
Christopher Wallace
East Tennessee State University, Johnson City, Tennessee, USA

SESSION 9-FECS: UNDERGRADUATE STUDIES

**Chair: Steele A. Russell, Southeastern Louisiana University, USA
July 16, 2008 (Wednesday); 03:40pm - 06:00pm
(LOCATION: Platinum Room)**

- 03:40 - 04:00pm: Reflections on a Mentoring Experience in an Undergraduate Computing Course at ? University
Iwona Miliszewska, Anne Venables, and Grace Tan
Victoria University, Melbourne, Australia
- 04:00 - 04:20pm: A Framework for Revitalizing Undergraduate Computer Science
Kevin Daimi
University of Detroit Mercy, Detroit, Michigan, USA
- 04:20 - 04:40pm: Pilot Studies on Teaching of Multimedia Technology for Undergraduate
Jiaoqing Mo and Zhiyun Chen
East China Normal University, Shanghai, P. R. China
- 04:40 - 05:00pm: FREE SLOT
- 05:00 - 05:20pm: Challenge for Programming Language Learning Objects
Ion Mierlus Mazilu
Technical University of Civil Engineering, Bucharest
- 05:20 - 05:40pm: FREE SLOT
- 05:40 - 06:00pm: Predicting Success in the Computer Science Degree Using ROC Analysis
Arturo Fornes, Jose A. Conejero, Antonio Molina, Antonio Perez,
Eduardo Vendrell, Andres Terrasa, and Emilio Sanchis
Universidad Politecnica de Valencia, Spain
- 06:00 - 09:30pm: Tutorials (please see the list of tutorials)**
-

6:45am - 5:00pm: Registration (Second Floor, Conference Lobby: 1-5)

SESSION 10-FECS: TEACHING STRATEGIES

Chair: Prof. Boleslaw Mikolajczak, University of Massachusetts Dartmouth, USA

July 17, 2008 (Thursday); 08:00am - 10:20am

(LOCATION: Platinum Room)

08:00 - 08:20am: Teaching Strategies in Large Class Programming Courses
Justin Brown and Greg Baatard
Edith Cowan University, Perth, WA, Australia

08:20 - 08:40am: Improving Teaching by Integrating Real-time Feedback Through Clickers into Class Video Recording
Taira Nakajima
Tohoku University, Japan

08:40 - 09:00am: Teaching Programming as a Process
Anastasia Tircuit
Seton Hill University, USA

09:00 - 09:20am: Petri Nets Across Graduate Computer Science Curriculum
Boleslaw Mikolajczak
University of Massachusetts Dartmouth, Massachusetts, USA;
Polish-Japanese School of Information Technology, Warsaw, Poland

09:20 - 09:40am: Integration of the Algorithmic and OO Approaches in the Curriculum
Mathias Fonkam and Felix Bollou
School of Information Technology & Communication, Nigeria

09:40 - 10:00am: Role Playing in Advanced Internet
Susan Loveland
Adams State College, Alamosa, Colorado, USA

10:00 - 10:20am: Importance of Service Learning in Electrical and Information Engineering Education
Andrew Nafalski and Ozdemir Gol
University of South Australia, Mawson Lakes, South Australia

10:20 - 10:40am: **BREAK**

10:40 - 11:40am: **During this period, FECS'08 attendees are encouraged to participate in sessions belonging to SERP'08, MSV'08, CGVR'08, ICOMP'08, SWWS'08, SAM'08, EEE'08, or FCS'08. These sessions discuss topics that overlap the scope of FECS'08.**

11:40a - 12:40p: **LUNCH (On Your Own)**

SESSION 11-FECS: EDUCATION AND THE WEB

Chair: Prof. Andrew Nafalski, University of South Australia, Australia
July 17, 2008 (Thursday); 12:40pm - 01:20pm
(LOCATION: Platinum Room)

12:40 - 01:00pm: Creating Wiki Communities in Blended Learning Environment and
the Creation of the Moodle New Wiki
Marc Alier
Universitat Politecnica de Catalunya, Spain

01:00 - 01:20pm: Assessment Practices for Mixed Mode Delivery of Web Programming
Topics: Increasing Learning and Reducing Cheating
Justin Brown
Edith Cowan University, Perth, Western Australia

SESSION 12-FECS: TOOLS AND EMULATORS

**Chair: Dr. Daren Wilcox, Southern Polytechnic State University, USA
July 17, 2008 (Thursday); 01:20pm - 03:00pm
(LOCATION: Platinum Room)**

- 01:20 - 01:40pm: The Radar-Graphic Phoneme Learning System
Yun-Long Lay, Minder Chen, Chern-Sheng Lin, and Hui-Jen Yang
National Chin-Yi University of Technology, Taiwan;
George Mason University, Fairfax, Virginia, USA;
Feng Chia University, Taiwan
- 01:40 - 02:00pm: Remote Laboratory for Inspection of Silicon Wafer
Aaron Mohtar, Zorica Nedic, and Jan Machotka
University of South Australia, Australia
- 02:00 - 02:20pm: Role of Simulation in the Study of Electromagnetism
Ozdemir Gol and Andrew Nafalski
University of South Australia, Mawson Lakes, South Australia
- 02:20 - 02:40pm: Department of Mathematics and Computer Science - The Synthesis
of Mathematical Foundations with Real World Applications in
Computer Science Education
Igor Balsim and Elie Feder
KBCC, City University of New York, New York, USA
- 02:40 - 03:00pm: Adapter for 8051 Emulation Using the C8051F360 and USB ToolStick
Gerd W. Wostenkuhler and Daren R. Wilcox
Southern Polytechnic State University, Marietta, Georgia, USA;
Hochschule Harz, University of Applied Studies & Research, Germany

03:00 - 03:40pm: DISCUSSION SESSION D-FECS (Refreshments will be available)
July 17, 2008 (Thursday)
(LOCATION: Hallways - Ballrooms 1-5)

- 0. The High Price of High Technology
Donald B. Hodges and Jongwook Woo
California State University, USA
- 0. Design Of Personal Record Software
Okonigene R.E., Ighalo G.I., and Ogbeifun E.
Ambrose Alli University, Nigeria
- 0. Another Take on the Introductory Computer Science Course
Timothy S. Meyer
Edinboro University of Pennsylvania, USA

- SESSION 13-FECS: GAME PROGRAMMING AND VIRTUAL WORLDS**
Chairs: Dr. Timothy S. Meyer and Dr. Mathias Fonkam
Edinboro University of Pennsylvania, USA
American University of Nigeria, Yola, Nigeria
July 17, 2008 (Thursday); 03:40pm - 04:40pm
(LOCATION: Platinum Room)
- 03:40 - 04:00pm: Google Earth as a Decision Support System for Targeting
College Admissions Drives
Leonidas Deligiannidis, Michael Werner, and John Russo
Wentworth Institute of Technology, Boston, MA, USA
- 04:00 - 04:20pm: Recruiting Students to Computer Science Program via Online Games
Nasser Tadayon, Ramin Tadayon, and Manghui Tu
Arizona State University, USA
- 04:20 - 04:40pm: Real Currency Economies: Using Real Money in Virtual Worlds
Billy Harris and Andy Novobilski
University of Tennessee at Chattanooga, USA
- 04:40 - 06:00pm: **During this period, FECS'08 attendees are encouraged to participate in sessions belonging to SERP'08, MSV'08, CGVR'08, ICOMP'08, SWWS'08, SAM'08, EEE'08, or FCS'08. These sessions discuss topics that overlap the scope of FECS'08.**

GCA'08 CONFERENCE SCHEDULE

The 2008 International Conference on Grid Computing and Applications

Monte Carlo Resort, Las Vegas, Nevada, July 14-17, 2008

Note 1:

There are a number of other sessions (not listed as part of GCA'08 schedule) that are of significant interest to GCA conference participants (sessions belonging to other joint conferences in this event.) Therefore, you are encouraged to also check the schedules for other joint conferences. In particular, some sessions in PDPTA'08, CDES'08, ICOMP'08, SWWS'08, SAM'08, IKE'08, EEE'08, FECS'08, and CIC'08, discuss topics that are within the scope of GCA; these have been scheduled so that GCA attendees can also participate in them.

Note 2:

Each conference is divided into a number of topical sessions. These sessions are not necessarily scheduled in the same room/location. Therefore, conference attendees are to check the location of the session(s) they wish to attend - The conference room numbers appear in this document.

July 13

03:00 - 09:00pm: REGISTRATION (Second Floor, Conference Lobby; 1-5)

- 6:30am - 5:00pm: Registration (Second Floor, Conference Lobby: 1-5)
- 08:30 - 08:45am: **WORLDCOMP'08 Opening Remarks**
Prof. Hamid R. Arabnia (General Chair & Coordinator)
University of Georgia, Georgia, USA
(LOCATION: Lance Burton Theater)
- 08:45 - 09:35am: **Keynote Lecture 1:**
The Parallel Computing Landscape: A Berkeley View 2.0
Prof. David A. Patterson
Pardee Prof. of CS; Director, RAD Lab & Par Lab; Past
President, ACM; Member, National Academy of Engineering;
Member, National Academy of Sciences; Fellow of IEEE, ACM,
& AAAS; University of California at Berkeley.
(LOCATION: Lance Burton Theater)
- 09:40 - 10:25am: **Keynote Lecture 2:**
Searching in the "Real World"
Prof. Ophir Frieder
The Royden B. Davis, SJ, Chair in Interdisciplinary
Studies at Georgetown University; IITRI Chair Professor
of CS at Illinois Institute of Technology; Director,
Information Retrieval lab; Fellow of IEEE, ACM, and AAAS
(LOCATION: Lance Burton Theater)
- 10:30 - 11:15am: **Keynote Lecture 3:**
Achieving your Dreams
Anousheh Ansari
CEO, Chairman and Co-founder of Prodea Systems, Inc., USA;
Space Ambassador
(LOCATION: Lance Burton Theater)
- 11:15a - 12:00p: **Keynote Lecture 4:**
**Dimensions in Reconfigurable Computing: A New Wave in
Electronic System Designs**
Chris Phillips
Vice President of Engineering at ElementCXI, USA
(LOCATION: Lance Burton Theater)
- 12:00 - 02:00pm: **LUNCH (On Your Own)**
- 02:00 - 04:00pm: **During this period, GCA'08 attendees are encouraged to participate
in sessions belonging to PDPTA'08, CDES'08, ICOMP'08, SWWS'08,
SAM'08, IKE'08, EEE'08, FECS'08, or CIC'08. These sessions discuss
topics that overlap the scope of GCA'08.**

- SESSION 1-GCA: GRID SERVICES, SCHEDULING, AND RESOURCE MANAGEMENT + RELATED ISSUES**
Chair: Dr. Lalit Kumar Awasthi, National Institute of Technology, India
July 14, 2008 (Monday); 04:00pm - 06:40pm
(LOCATION: Silver Room)
- 04:00 - 04:20pm: Network-aware Peer-to-Peer Based Grid Inter-Domain Scheduling
 Agustin Caminero, Omer Rana, Blanca Caminero, and Carmen Carrion
 The University of Castilla La Mancha, Albacete, Spain;
 Cardiff School of Computer Science, Cardiff, UK
- 04:20 - 04:40pm: Using a Web-based Framework to Manage Grid Deployments
 George Oikonomou and Theodore Apostolopoulos
 Athens University of Economics and Business, Greece
- 04:40 - 05:00pm: A QoS Guided Workflow Scheduling Algorithm for the Grid
 Fangpeng Dong
 Queen's University, Kingston, ON, Canada
- 05:00 - 05:20pm: A Grid Resource Broker with Dynamic Loading Prediction Scheduling
 Algorithm in Grid Computing Environment
 Yi-Lun Pan, Chang-Hsing Wu, and Weicheng Huang
 National Center High-performance Computing, Hsinchu, Taiwan
- 05:20 - 05:40pm: Measurement of Services for Performance Evaluation
 Niko Zenker and Martin Kunz
 Otto-von-Guericke Univeristt Magdeburg, Germany
- 05:40 - 06:00pm: Experience in Testing the Grid based Workload Management System
 of a LHC Experiment
 V. Miccio, A. Fanfani, D. Spiga, M. Cinquilli, G. Codispoti,
 F. Fanzago, F. Farina, S. Lacaprara, E. Vaandering, A. Sciab, S. Belforte
 CERN / University of Bologna
- 06:00 - 06:20pm: Auction Algorithms for Resource Management with Grouping of
 Gridlets in Grid Environment
 G. P. Bhole and Dhadiwal Gaurav T.
- 06:20 - 06:40pm: Implementation of Enhanced Reflective Meta Object to Address
 Issues Related to Contractual Resource Sharing within Ad-hoc
 Grid Environments
 Syed Alam, Norlaily Yaacob, and Anthony Godwin
 Coventry University, Coventry, UK
- 06:00 - 09:00pm: Tutorials (please see the list of tutorials)**
- 09:10 - 11:30pm: CONFERENCE RECEPTION DINNER & BANQUET KEYNOTE - July 14 (Monday)**
High Performance Computing and Computational Intelligence: Link
to the Translational Medicine and Personalized Healthcare
Dr. Jack Y. Yang and Dr. Mary Qu Yang
Harvard University, Massachusetts, USA and
National Human Genome Research Institute, NIH, Bethesda, USA
(LOCATION: Ballrooms 1-5)
-

6:45am - 5:00pm: Registration (Second Floor, Conference Lobby: 1-5)

08:00 - 10:20am: During this period, GCA'08 attendees are encouraged to participate in sessions belonging to PDPTA'08, CDES'08, ICOMP'08, SWWS'08, SAM'08, IKE'08, EEE'08, FECS'08, or CIC'08. These sessions discuss topics that overlap the scope of GCA'08.

SESSION 2-GCA: SECURITY AND RELIABILITY ISSUES + MONITORING STRATEGIES
Chair: Prof. Babak Akhgar, Sheffield Hallam University, UK
July 15, 2008 (Tuesday); 10:20am - 11:00am
(LOCATION: Silver Room)

10:20 - 10:40am: A Novel Proxy Certificate Issuance on Grid Portal Without Using MyProxy
Ng Kang Siong, Sea Chong Seak, Galoh Rashidah Haron, Tan Fui Bee,
and Azhar Abu Talib
Cyberspace Security Center, MIMOS Berhad Tech. Park Malaysia, Malaysia

10:40 - 11:00am: "Secure Thyself": Securing Individual Peers in Collaborative
Peer-to-Peer Environments
Ankur Gupta and Lalit K. Awasthi
Model Institute of Engineering and Technology, India

- SESSION 3-GCA: GRID COMPUTING APPLICATIONS + ALGORITHMS**
Chair: Dr. Xinlian Liu, Hood College, Frederick, Maryland, USA
July 15, 2008 (Tuesday); 11:00am - 12:40pm
(LOCATION: Silver Room)
- 11:00 - 11:20am: Rapid Prototyping Capabilities for Conducting Research of Sun-Earth System
T. Haupt, A. Kalyanasundaram, and I. Zhuk
Mississippi State University, USA
- 11:20 - 11:40am: The PS3 Grid-Resource Model
Martin Rehr and Brian Vinter
University of Copenhagen, Denmark
- 11:40 - 12:00pm: Numerical Computational Solution of Fredholm Integral Equations of the Second Kind by Using Multiwavelet
K. Maleknejad, T. Lotfi, and K. Nouri
Iran University of Science and Technology, Tehran, Iran;
I.A.U.H., Hamadan, Iran
- 12:00 - 12:20pm: A Grid-Based Context-Aware Recommender System for Mobile Healthcare Applications
Mohammad Mehedi Hassan, Ki-moon Choi, and Eui-Nam Huh
Kyung Hee University, Korea
- 12:20 - 12:40pm: The Effect of Sub Communities in a Community-Based Peer-to-Peer Model Based on Social Networks
Amir Modarresi, Ali B. Mamat, Hamidah Ibrahim and Norwati Mustapha
University Putra Malaysia, Malaysia
- 12:40 - 02:00pm: **LUNCH (On Your Own)**
- 02:00 - 03:00pm: **During this period, GCA'08 attendees are encouraged to participate in sessions belonging to PDPTA'08, CDES'08, ICOMP'08, SWWS'08, SAM'08, IKE'08, EEE'08, FECS'08, or CIC'08. These sessions discuss topics that overlap the scope of GCA'08.**

**03:00 - 03:40pm: DISCUSSION SESSION A-GCA (Refreshments will be available)
July 15, 2008 (Tuesday)
(LOCATION: Hallways - Ballrooms 1-5)**

O. Overbooking in Planning Based Scheduling Systems
Georg Birkenheuer, Matthias Hovestadt, Odej Kao, and Kerstin Voss
Universitat Paderborn, Germany

03:40 - 06:00pm: During this period, GCA'08 attendees are encouraged to participate in sessions belonging to PDPTA'08, CDES'08, ICOMP'08, SWWS'08, SAM'08, IKE'08, EEE'08, FECS'08, or CIC'08. These sessions discuss topics that overlap the scope of GCA'08.

06:00 - 09:30pm: Tutorials (please see the list of tutorials)

6:45am - 5:00pm: Registration (Second Floor, Conference Lobby: 1-5)

SESSION 4-GCA: GRID UTILITIES, SYSTEMS, TOOLS, AND ARCHITECTURES
Chair: Dr. Xinlian Liu, Hood College, Frederick, Maryland, USA
July 16, 2008 (Wednesday); 08:00am - 10:40am
(LOCATION: Silver Room)

08:00 - 08:20am: Grid-Enabling Complex System Applications with QosCosGrid: An Architectural Perspective
 Valentin Kravtsov, Assaf Schuster, David Carmeli, Krzysztof Kurowski, and Werner Dubitzky
 Technion - Israel Institute of Technology, Haifa, Israel;
 Poznan Supercomputing and Networking Center, Poland;
 Univ. of Queensland, Australia; Univ. of Ulster, Northern Ireland

08:20 - 08:40am: The Scientific Byte Code Virtual Machine
 Rasmus Andersen and Brian Vinter
 University of Copenhagen, Denmark

08:40 - 09:00am: CRAB: an Application for Distributed Scientific Analysis in Grid Projects
 D. Spiga, S. Lacaprara, M. Cinquilli, G. Codispoti, M. Corvo, A. Fanfani, F. Fanzagob, F. Farina, V. Miccio, C. Kavka, E. Vaandering
 University and INFN Perugia, Italy

09:00 - 09:20am: Fuzzy-Based Adaptive Replication Mechanism in Desktop Grid Systems
 Hong-Soo Kim, Joon-Min Gil, Jae-Hwa Chung, and Soon-Young Joung
 Korea University, Seoul, Republic of Korea

09:20 - 09:40am: FREE SLOT

09:40 - 10:00am: Optimizing Database Resources on the Grid
 Celso Henrique Poderoso de Oliveira
 FIAP - Faculdade de Informatica e Administracao Paulista, Brazil

10:00 - 10:20am: An Efficient Load Balancing Architecture for Peer to Peer Systems
 Sandeep kumar Samudrala, Guruprasad Khataniar, Brajesh Kumar Shrivastava, Diganta Goswami
 Indian Institute of Technology Guwahati, India

10:20 - 10:40am: Grid Performance Analysis in a Parallel Environment
 Y. S. Atmaca, O. Kandara and A. Tan
 Southern University and A&M College, USA

10:40a - 03:00p: During this period, GCA'08 attendees are encouraged to participate in sessions belonging to PDPTA'08, CDES'08, ICOMP'08, SWWS'08, SAM'08, IKE'08, EEE'08, FECS'08, or CIC'08. These sessions discuss topics that overlap the scope of GCA'08.

**03:00 - 03:40pm: DISCUSSION SESSION B-GCA (Refreshments will be available)
July 16, 2008 (Wednesday)
(LOCATION: Hallways - Ballrooms 1-5)**

- O. Realization of an Offer Mechanism for Service Level Agreements in Grids?
Dominic Batre, Matthias Hovestadt, and Odej Kao
Technische Universitat Berlin, Germany
- O. Germany, Belgium, France, and Back Again: Job Migration Using Globus
D. Batre, M. Hovestadt, O. Kao, A. Keller, K. Voss
Technische Univ. Berlin, Germany; Univ. of Paderborn, Germany
- O. Development of Grid Service Based Molecular Docking Application
HwaMin Lee, DooSoon Park, and HeonChang Yu
Soonchunhyang University, Korea; Korea University, Korea
- O. G-BLAST: A Grid Service for BLAST
Purushotham Bangalore and Enis Afgan
University of Alabama at Birmingham, USA

03:40 - 06:00pm: During this period, GCA'08 attendees are encouraged to participate in sessions belonging to PDPTA'08, CDES'08, ICOMP'08, SWWS'08, SAM'08, IKE'08, EEE'08, FECS'08, or CIC'08. These sessions discuss topics that overlap the scope of GCA'08.

06:00 - 09:30pm: Tutorials (please see the list of tutorials)

08:00a - 05:00p: During this period, GCA'08 attendees are encouraged to participate in sessions belonging to PDPTA'08, CDES'08, ICOMP'08, SWWS'08, SAM'08, IKE'08, EEE'08, FECS'08, or CIC'08. These sessions discuss topics that overlap the scope of GCA'08.

GEM'08 CONFERENCE SCHEDULE

The 2008 International Conference on Genetic and Evolutionary Methods

Monte Carlo Resort, Las Vegas, Nevada, July 14-17, 2008

Note 1:

There are a number of other sessions (not listed as part of GEM'08 schedule) that are of significant interest to GEM conference participants (sessions belonging to other joint conferences in this event.) Therefore, you are encouraged to also check the schedules for other joint conferences. In particular, some sessions in ICAI'08, MLMTA'08, BIOCOMP'08, IPCV'08, SAM'08, DMIN'08, IKE'08, EEE'08, and FECS'08, discuss topics that are within the scope of GEM; these have been scheduled so that GEM attendees can also participate in them.

Note 2:

Each conference is divided into a number of topical sessions. These sessions are not necessarily scheduled in the same room/location. Therefore, conference attendees are to check the location of the session(s) they wish to attend - The conference room numbers appear in this document.

July 13

03:00 - 09:00pm: REGISTRATION (Second Floor, Conference Lobby; 1-5)

- 6:30am - 5:00pm: Registration (Second Floor, Conference Lobby: 1-5)
- 08:30 - 08:45am: **WORLDCOMP'08 Opening Remarks**
 Prof. Hamid R. Arabnia (General Chair & Coordinator)
 University of Georgia, Georgia, USA
 (LOCATION: Lance Burton Theater)
- 08:45 - 09:35am: **Keynote Lecture 1:**
The Parallel Computing Landscape: A Berkeley View 2.0
 Prof. David A. Patterson
 Pardee Prof. of CS; Director, RAD Lab & Par Lab; Past
 President, ACM; Member, National Academy of Engineering;
 Member, National Academy of Sciences; Fellow of IEEE, ACM,
 & AAAS; University of California at Berkeley.
 (LOCATION: Lance Burton Theater)
- 09:40 - 10:25am: **Keynote Lecture 2:**
Searching in the "Real World"
 Prof. Ophir Frieder
 The Royden B. Davis, SJ, Chair in Interdisciplinary
 Studies at Georgetown University; IITRI Chair Professor
 of CS at Illinois Institute of Technology; Director,
 Information Retrieval lab; Fellow of IEEE, ACM, and AAAS
 (LOCATION: Lance Burton Theater)
- 10:30 - 11:15am: **Keynote Lecture 3:**
Achieving your Dreams
 Anousheh Ansari
 CEO, Chairman and Co-founder of Prodea Systems, Inc., USA;
 Space Ambassador
 (LOCATION: Lance Burton Theater)
- 11:15a - 12:00p: **Keynote Lecture 4:**
**Dimensions in Reconfigurable Computing: A New Wave in
 Electronic System Designs**
 Chris Phillips
 Vice President of Engineering at ElementCXI, USA
 (LOCATION: Lance Burton Theater)
- 12:00 - 01:00pm: LUNCH (On Your Own)
- 01:00 - 06:00pm: During this period, GEM'08 attendees are encouraged to participate
 in sessions belonging to ICAI'08, MLMTA'08, BIOCOMP'08, IPCV'08,
 SAM'08, DMIN'08, IKE'08, EEE'08, or FECS'08. These sessions
 discuss topics that overlap the scope of GEM'08.
- 06:00 - 09:00pm: Tutorials (please see the list of tutorials)
- 09:10 - 11:30pm: **CONFERENCE RECEPTION DINNER & BANQUET KEYNOTE - July 14 (Monday)**
**High Performance Computing and Computational Intelligence: Link
 to the Translational Medicine and Personalized Healthcare**
 Dr. Jack Y. Yang and Dr. Mary Qu Yang
 Harvard University, Massachusetts, USA and
 National Human Genome Research Institute, NIH, Bethesda, USA
 (LOCATION: Ballrooms 1-5)
-

6:45am - 5:00pm: Registration (Second Floor, Conference Lobby: 1-5)

08:00a - 03:00p: During this period, GEM'08 attendees are encouraged to participate in sessions belonging to ICAI'08, MLMTA'08, BIOCAMP'08, IPCV'08, SAM'08, DMIN'08, IKE'08, EEE'08, or FECS'08. These sessions discuss topics that overlap the scope of GEM'08.

03:00 - 03:40pm: DISCUSSION SESSION A-GEM (Refreshments will be available)
July 15, 2008 (Tuesday)
(LOCATION: Hallways - Ballrooms 1-5)

- 0. Hybrid Approach to Retrieval of Reusable Component from a Repository Using Genetic Algorithms and Ant Colony
Navneet Kaur and Jaspreet Singh Budwal
Apeejay Institute of Management, India
- 0. Coevolving Partial Strategies for the Game of Go
Peter Drake and Yung-Pin Chen
Lewis & Clark College, USA
- 0. An Experimental Study of New Continuous Ant Colony Optimization Algorithm
Hussam Al-shorman
Balqa Applied University, Amman

- SESSION 1-GEM: GENETIC AND EVOLUTIONAY ALGORITHMS**
Chairs: Dr. Peter Drake and Dr. Pedro A. Diaz-Gomez
Lewis & Clark College, Oregon, USA
Cameron University, Lawton, Oklahoma, USA
July 15, 2008 (Tuesday); 03:40pm - 06:00pm
(LOCATION: Silver Room)
- 03:40 - 04:00pm: Using a Stochastic Funnel to find NLR Starting Values
 Adrian O'Connor, Junbin Gao, and John Louis
 Sharjah Men's College, Sharjah, United Arab Emirates;
 Charles Sturt University, Bathurst, Australia
- 04:00 - 04:20pm: Deception, Order and Epistasis
 Concepcion Vidal, Maria Teresa Iglesias, and Alain Verschoren
 University of A Coruna, Spain
- 04:20 - 04:40pm: Genetic Algorithm Tuned Fuzzy and Classical Controllers
 for Six DOF Robot
 Sufian Ashraf Mazhari and Surendra Kumar
 Indian Institute of Technology Roorkee, India
- 04:40 - 05:00pm: Comparative Evaluation of Genetic Algorithms for Force-Based
 Self-Deployment of Mobile Agents in MANETs
 Elkin Urrea, C. Safak Sahin, M. Umit Uyar, Michael Conner,
 Ibrahim Hokelek, Giorgio Bertoli and Christian Pizzo
 City College of New York, USA
- 05:00 - 05:20pm: Feature Selection and Classification via a GA - SVM Hybrid
 Eu-Jin Teoh and Cheng Xiang
 National University of Singapore, Singapore
- 05:20 - 05:40pm: Optimizing Turbo Codes Free Distance Computation Garello's
 Method by Genetic Algorithms
 Nabil Ouddane, Pavel Kromer, Vaclav Snasel, and Jan Platos
 CESNET, National Research and Education Network, Czech Republic;
 VSB - Technical University of Ostrava, Czech Republic
- 05:40 - 06:00pm: Parameter Tuning for PBIL Algorithm in Geometric Constraint
 Solving Systems
 R. Joan-Arinyo, M.V. Luzon, and E. Yeguas
 Universitat Politecnica de Catalunya, Spain
- 06:00 - 09:30pm: Tutorials (please see the list of tutorials)**
-

6:45am - 5:00pm: Registration (Second Floor, Conference Lobby: 1-5)

08:00a - 12:00p: During this period, GEM'08 attendees are encouraged to participate in sessions belonging to ICAI'08, MLMTA'08, BIOCOMP'08, IPCV'08, SAM'08, DMIN'08, IKE'08, EEE'08, or FECS'08. These sessions discuss topics that overlap the scope of GEM'08.

12:00 - 01:00pm: LUNCH (On Your Own)

SESSION 2-GEM: NOVEL APPLICATIONS
 Chair: Dr. Peter Drake, Lewis & Clark College, Oregon, USA
 July 16, 2008 (Wednesday); 01:00pm - 03:00pm
 (LOCATION: Silver Room)

01:00 - 01:20pm: Genetic Algorithms with Pull Moves for Protein Structure Prediction Problem
 Berenboym Igor and Avigal Mireille
 The Open University, Israel

01:20 - 01:40pm: Evaluating Automated Trading Systems Using Random Walk Securities
 Tomoyasu Oya
 Waseda University, Tokyo, Japan

01:40 - 02:00pm: A Genetic Algorithm Approach to Dock Door Assignment in Automated Cross-docking Terminal with Restricted Layout
 Chang Seong Ko, Hae Kyeong Lee, Eun Jin Choi, and Taioun Kim
 Kyungshung University, Industrial Engineering, Busan, Korea

02:00 - 02:20pm: FREE SLOT

02:20 - 02:40pm: Evolution and Behavior Analysis of the Autonomous Robot Neuro-Controller
 Roman Neruda, Stanislav Slusny, and Petra Vidnerova
 Academy of Science of the Czech Republic, Czech Republic

02:40 - 03:00pm: FREE SLOT

**03:00 - 03:40pm: DISCUSSION SESSION B-GEM (Refreshments will be available)
July 16, 2008 (Wednesday)
(LOCATION: Hallways - Ballrooms 1-5)**

- O. LQR Control for a Rotary Double Inverted Pendulum
Carolina Mira Hernandez
Eafit University, Medellin, Colombia
- O. Fast Selection of Cellular Automata Genes Based on Uncertainty Profiles of Cells
R. Dogaru, Shi Wang, and Hyongsuk Kim
Chonbuk National Univ., Korea; Univ. "Politehnica" of Bucharest, Romania
- O. Data Encryption Based On Protein Synthesis
S. R. Alisobhani, F. Mehrabanpoor, Y. Nosrati, and B. Sadeghi B.
Faculty of Information Technology, Iran

03:40 - 06:00pm: During this period, GEM'08 attendees are encouraged to participate in sessions belonging to ICAI'08, MLMTA'08, BIOCOMP'08, IPCV'08, SAM'08, DMIN'08, IKE'08, EEE'08, or FECS'08. These sessions discuss topics that overlap the scope of GEM'08.

06:00 - 09:30pm: Tutorials (please see the list of tutorials)

6:45am - 5:00pm: Registration (Second Floor, Conference Lobby: 1-5)

08:00 - 10:00am: During this period, GEM'08 attendees are encouraged to participate in sessions belonging to ICAI'08, MLMTA'08, BIOCOMP'08, IPCV'08, SAM'08, DMIN'08, IKE'08, EEE'08, or FECS'08. These sessions discuss topics that overlap the scope of GEM'08.

SESSION 3-GEM: SWARM + ANT COLONY OPTIMIZATION + BIO-INSPIRED SYSTEMS
Chair: Pedro A. Diaz-Gomez, Cameron University, Lawton, Oklahoma, USA
July 17, 2008 (Thursday); 10:00am - 11:20am
(LOCATION: Silver Room)

10:00 - 10:20am: BAF: A Bio-Inspired Agent Framework for Distributed Pervasive Applications
O. Brousse, G. Sassatelli, T. Gil, Y. Guillemenet, M. Robert, L. Torres, and F. Grize
LIRMM, Univ. Montpellier 2, France;
Universit de Lausanne Quartier UNIL-Dorigny Btiment Internef, Suisse

10:20 - 10:40am: GA, EO, and PSO Applied to the Discrete Network Configuration Problem
M. Martin, E. Drucker, and W. D. Potter
University of Georgia, Athens, Georgia, USA

10:40 - 11:00am: Hardware Architecture of Pheromone-Balance Aware Ant Colony Optimization
Masaya Yoshikawa and Hidekazu Terai
Meijo University, Japan; Ritsumeikan university, Japan

11:00 - 11:20am: A Evolutionary Algorithm for the Knowledge Reduction Based on Granular Computing
Yong-Qin Tao, Du-Wu Cui, and Tai-Shan Yan
Xi'an University of Technology, Shann'xi, P. R. China;
Xi'an Jiaotong University, Shann'xi, P. R. China

- SESSION 4-GEM: GENETIC AND EVOLUTIONAY ALGORITHMS I**
Chair: Prof. Sung-Hyuk Cha, Pace University, USA
July 17, 2008 (Thursday); 11:20am - 03:00pm
(LOCATION: Silver Room)
- 11:20 - 11:40am: Hybrid Evolutionary One-Step Gradient Descent for training RNNs
Rohitash Chandra and Christian W. Omlin
Middle East Technical University, Cyprus
- 11:40 - 12:00pm: Self-Adaptive Inversion Mutation for Combinatorial Representations
Oliver Kramer
University of Dortmund, Dortmund, Germany
- 12:00 - 12:20pm: Testbed for Genetic Algorithm for Self Spreading Nodes in MANETs
Cevher Dogan, M. Umit Uyar, Elkin Urrea, C. Safak Sahin, and
Ibrahim Hokelek
The City University of New York, New York, USA;
Telcordia Technologies, Inc., Piscataway, New Jersey, USA
- 12:20 - 01:20pm: LUNCH (On Your Own)**
- 01:20 - 01:40pm: A New Approach for Global Optimization in High Dimension Problems
S. Jafari, H. R. Abdolmohammadi, M. E. Nazari, and H. A. Shayanfar
Iran University of Science and Technology (IUST), Tehran, Iran;
Amirkabir University of Technology, Tehran, Iran
- 01:40 - 02:00pm: Pseudo-Genetic Algorithmic Composition
Harald Schmidl
Central Carolina Community College, Sanford, North Carolina, USA
- 02:00 - 02:20pm: Better Huffman Coding via Genetic Algorithm
Cody Boisclair and Markus Wagner
University of Georgia, Athens, Georgia, USA;
University of Koblenz-Landau, Germany
- 02:20 - 02:40pm: Near Real-Time Event Detection and Prediction
Jeremy B. Noel and Phil Palmer
Surrey Space Center, University of Surrey, Guildford, United Kingdom
- 02:40 - 03:00pm: Constructing Binary Decision Trees Using Genetic Algorithm
Sung-Hyuk Cha and Charles Tappert
Pace University, USA

**03:00 - 03:40pm: DISCUSSION SESSION C-GEM (Refreshments will be available)
July 17, 2008 (Thursday)
(LOCATION: Hallways - Ballrooms 1-5)**

- 0. The Use of Logistic Map as a Pseudorandom Number Generator for Particle Swarm Optimization
Ipek Eker, Kubilay Ecerkale, and S. Akir Esnaf
Fatih University, Turkey
- 0. Learning in Negotiation with Genetic Algorithms
Emerson Romanhuki, Marcio Fuckner, Fabricio Enembreck, Braulio Avila, Edson E. Scalabrin
Pontifical Catholic University of Parana, Brazil

SESSION 5-GEM: GENETIC AND EVOLUTIONAY ALGORITHMS II
Chair: Dr. Wayne Iba, Westmont Computer Science Program, USA
July 17, 2008 (Thursday); 03:40pm - 04:20pm
(LOCATION: Silver Room)

03:40 - 04:00pm: Initial Population Diversity Does Not Influence Performance
Pedro A. Diaz-Gomez and Dean F. Hougen
Cameron University, Lawton, Oklahoma, USA;
University of Oklahoma, Norman, Oklahoma, USA

04:00 - 04:20pm: Genetic Algorithms for the N-Queens Problem
Josef Hynek
University of Hradec Kralove, Czech Republic

SESSION 6-GEM: NOVEL APPLICATIONS
Chair: Dr. Curry I. Guinn, University of North Carolina Wilmington, USA
July 17, 2008 (Thursday); 04:20pm - 06:00pm
(LOCATION: Silver Room)

04:20 - 04:40pm: Evaluating a Parallel Evolutionary Algorithm on the Chess Endgame Problem
Wayne Iba, Kelsey Marshman, and Benjamin Fisk
Westmont Computer Science Program, USA

04:40 - 05:00pm: The Parallelization of Membrane Computers to Find Near Optimal
Solutions to Cost-Based Abduction
Curry I. Guinn, William Shipman, and Ed Addison
University of North Carolina Wilmington, USA

05:00 - 05:20pm: Memetic Approach for Multi-Objective Flexible Process Sequencing Problems
Jian-Hung Chen
Chung-Hua University, Taiwan

05:20 - 05:40pm: Optimized Back-Propagation Algorithm for Pattern Recognition
Mohammed Abu Zalata and Ziad A. AlQadi
Al-Balqa' Applied University, Amman, Jordan

05:40 - 06:00pm: FREE SLOT

ICAI'08 CONFERENCE SCHEDULE

The 2008 International Conference on Artificial Intelligence

Monte Carlo Resort, Las Vegas, Nevada, July 14-17, 2008

Note 1:

There are a number of other sessions (not listed as part of ICAI'08 schedule) that are of significant interest to ICAI conference participants (sessions belonging to other joint conferences in this event.) Therefore, you are encouraged to also check the schedules for other joint conferences. In particular, some sessions in DMIN'08, GEM'08, MLMTA'08, IKE'08, and EEE'08, discuss topics that are within the scope of ICAI; these have been scheduled so that ICAI attendees can also participate in them.

Note 2:

Each conference is divided into a number of topical sessions. These sessions are not necessarily scheduled in the same room/location. Therefore, conference attendees are to check the location of the session(s) they wish to attend - The conference room numbers appear in this document.

July 13

03:00 - 09:00pm: REGISTRATION (Second Floor, Conference Lobby; 1-5)

- 6:30am - 5:00pm: Registration (Second Floor, Conference Lobby: 1-5)
- 08:30 - 08:45am: **WORLDCOMP'08 Opening Remarks**
 Prof. Hamid R. Arabnia (General Chair & Coordinator)
 University of Georgia, Georgia, USA
 (LOCATION: Lance Burton Theater)
- 08:45 - 09:35am: **Keynote Lecture 1:**
The Parallel Computing Landscape: A Berkeley View 2.0
 Prof. David A. Patterson
 Pardee Prof. of CS; Director, RAD Lab & Par Lab; Past
 President, ACM; Member, National Academy of Engineering;
 Member, National Academy of Sciences; Fellow of IEEE, ACM,
 & AAAS; University of California at Berkeley.
 (LOCATION: Lance Burton Theater)
- 09:40 - 10:25am: **Keynote Lecture 2:**
Searching in the "Real World"
 Prof. Ophir Frieder
 The Royden B. Davis, SJ, Chair in Interdisciplinary
 Studies at Georgetown University; IITRI Chair Professor
 of CS at Illinois Institute of Technology; Director,
 Information Retrieval lab; Fellow of IEEE, ACM, and AAAS
 (LOCATION: Lance Burton Theater)
- 10:30 - 11:15am: **Keynote Lecture 3:**
Achieving your Dreams
 Anousheh Ansari
 CEO, Chairman and Co-founder of Prodea Systems, Inc., USA;
 Space Ambassador
 (LOCATION: Lance Burton Theater)
- 11:15a - 12:00p: **Keynote Lecture 4:**
**Dimensions in Reconfigurable Computing: A New Wave in
 Electronic System Designs**
 Chris Phillips
 Vice President of Engineering at ElementCXI, USA
 (LOCATION: Lance Burton Theater)
- 12:00 - 12:40pm: LUNCH (On Your Own)

12:40 - 01:20pm: **DISCUSSION SESSION A-ICAI (Refreshments will be available)**
July 14, 2008 (Monday)
(LOCATION: Hallways - Ballrooms 1-5)

- 0. A Tabu Based Neural Network Training Algorithm for Equalization of Communication Channels
J. K. Satapathy and K. R. Subhashini; NIT, Rourkela, India
- 0. A Noisy Chaotic Neural Network for Solving Attributed Relational Graph Matching Problem
Kushan Ahmadian, Abbas Golestani, M. R. Jahed Motlagh, & Nasser Mozayani
Iran University of Science and Technology, Iran
- 0. A Framework for Distributed Decision Support Multi-Agent Intelligent System
Ali I. El-Desouky and Sally M. El-Ghamrawy
Mansoura University, Egypt
- 0. A New BSS Arithmetic and Applications Based on Sub-Band Function and Wavelet Transform
Xiefeng Cheng, Yewei Tao, Shoubai Zhang, and Yufeng Guo
Nanjing University of Posts and Telecommunications, P. R. China;
University of Jinan, Shandong, P. R. China
- 0. A Gene Regulatory Network Approach for Failure Rate Prediction in Distributed Systems
Sanjoy Das, Anil Pahwa, Dapeng Li, Bijaya K. Panigrahi, and Stephen M. Welch
Kansas State University, Manhattan, Kansas, USA;
Indian Institute of Delhi, New Delhi, India
- 0. Using L-System Grammars for Music Automatic Generation
M. C. Francisco Edgar Castillo Barrera
University of San Luis Potosi, Mexico

SESSION 1-ICAI: FUZZY LOGIC AND APPLICATIONS

**Chair: David Dodds, Director, Open-Meta Computing Inc, Canada
July 14, 2008 (Monday); 01:20pm - 03:00pm
(LOCATION: Ballroom 2)**

01:20 - 01:40pm: A PHP-CLIPS Based Intelligent System for Diabetic Self-Diagnosis
Huiqing H. Yang and Sharnei Miller
Virginia State University, Petersburg, Virginia, USA

01:40 - 02:00pm: Constructing an Intelligent System for Selecting People
Canos, L., Canos, M.J., Casasus, T., Lara, T., Liern, V., Perez, J.C.
Universidad Politecnica de Valencia, Spain

02:00 - 02:20pm: Navigation in Dynamic Environments Utilizing Translation of Fuzzy Sets
Irvin Jones, Arjun Mitra, and Shounak Mitra
University of Denver, USA

02:20 - 02:40pm: A Fuzzy Data Sifter for Constructing a Takagi-Sugeno Fuzzy Model
Horng-Lin Shieh and Ying-Kuei Yang
National Taiwan University of Science & Technology, Taiwan

02:40 - 03:00pm: A Real-Time Facial Emotion Recognition System Using Fuzzy
Neural Networks
Siu-Yeung Cho and Teik-Toe Teoh
Nanyang Technological University, Singapore

03:00 - 03:20pm: BREAK

- SESSION 2-ICAI: AGENT TECHNOLOGIES**
Chairs: Dr. Anne Hakansson and Dr. Ronald L. Hartung
Uppsala University, Uppsala, Sweden
Franklin University, Columbus, Ohio, USA
July 14, 2008 (Monday); 03:20pm - 06:00pm
(LOCATION: Ballroom 2)
- 03:20 - 03:40pm: Autonomously Creating a Hierarchy of Intelligent Agents Using Clustering in a Multi-Agent System
 Anne Hakansson and Ronald L. Hartung
 Uppsala University, Uppsala, Sweden;
 Franklin University, Columbus, Ohio, USA
- 03:40 - 04:00pm: Research on Intelligent Distribution Control and Automation System
 Xusheng Yang, Wanxing Sheng, Qi Cheng, Xiaomu Yu and Jihu Wang
 Electric Power Research Institute, China
- 04:00 - 04:20pm: Communication Scheme Comparison for a Distributed Multi-Agent System
 Matthew Conforth and Yan Meng
 Stevens Institute of Technology, USA
- 04:20 - 04:40pm: Energy Flow and Conservation in an Artificial Life Agent Model
 C. J. Scogings and K. A. Hawick
 Massey University, New Zealand
- 04:40 - 05:00pm: Performance Evaluation of DPS Coordination Strategies Modeled in Pi-Calculus
 Norman Carver, Elham S. Khorasani, and Shahram Rahimi
 Southern Illinois University, Carbondale, Illinois, USA
- 05:00 - 05:20pm: A Web Site Architecture for Interaction Between Avatars and Intelligent Animated Agents
 Fco. Edgar Castillo Barrera
 Autonomous University of San Luis Potosi, Mexico
- 05:20 - 05:40pm: Congestion Avoidance in Multi-Agent-Based Egress Simulation
 Bikramjit Banerjee, Matthew Bennett, Mike Johnson, and Adel Ali
 University of Southern Mississippi, Hattiesburg, Mississippi, USA
- 05:40 - 06:00pm: A New Load Balancing Scheme for Distributed Multi-Agent Simulations
 Phillip Coleman, Michael Pellon and Yu Zhang
- 06:00 - 09:00pm: Tutorials (please see the list of tutorials)**
- 09:10 - 11:30pm: CONFERENCE RECEPTION DINNER & BANQUET KEYNOTE - July 14 (Monday)**
High Performance Computing and Computational Intelligence: Link to the Translational Medicine and Personalized Healthcare
Dr. Jack Y. Yang and Dr. Mary Qu Yang
Harvard University, Massachusetts, USA and
National Human Genome Research Institute, NIH, Bethesda, USA
(LOCATION: Ballrooms 1-5)

6:45am - 5:00pm: Registration (Second Floor, Conference Lobby: 1-5)

SESSION 3-ICAI: NATURAL LANGUAGE PROCESSING

Chairs: Dr. Raymond A. Liuzzi and Dr. Peter M. LaMonica;
Raymond Technologies, USA and US Air Force Research Lab, AFRL/IFED, USA)
July 15, 2008 (Tuesday); 08:00am - 09:00am
(LOCATION: Ballroom 2)

08:00 - 08:20am: Improving Upon Semantic Classification of Spoken Diary Entries
Using Pragmatic Context Information
Daniel J. Rayburn Reeves and Curry I. Guinn
University of North Carolina Wilmington, USA

08:20 - 08:40am: Improved Version of the Natural Language Dialog System DST and Its
Application for Discovery of Logical Constructions in Children's Speech
Erika Matsak
Tallinn University of Technology, Estonia

08:40 - 09:00am: An Object-Oriented Approach in Representing and Parsing the English
Grammar
Waleed Faris and Kam-Hoi Cheng
University of Houston, Houston, Texas, USA

SESSION 4-ICAI: DATABASES + INFORMATION RETRIEVAL + SEARCH METHODS AND RELATED ALGORITHMS
Chairs: Dr. Raymond A. Liuzzi and Dr. Peter M. LaMonica;
Raymond Technologies, USA and US Air Force Research Lab, AFRL/IFED, USA)
July 15, 2008 (Tuesday); 09:00am - 09:40am
(LOCATION: Ballroom 2)

09:00 - 09:20am: Enhancing Available-Memory Cost-Bounded Iterative-Deepening Search
Sandeep K. Namilikonda and Nihar R. Mahapatra
Michigan State University, East Lansing, Michigan, USA

09:20 - 09:40am: Optimized Sorting Functions for a Distributed Deductive Database
Martin Maskarinec and Kathleen Neumann
Western Illinois University, Macomb, Illinois, USA

- SESSION 5-ICAI: NOVEL APPLICATIONS, METHODOLOGIES, AND ALGORITHMS I**
Chair: Jeffrey W. Wallace, Carpe Occasio Technology Systems (COTS), USA
July 15, 2008 (Tuesday); 09:40am - 12:20pm
(LOCATION: Ballroom 2)
- 09:40 - 10:00am: ECG Biometric System
Abdul Wahab and Wu Zhengning
Nanyang Technological University, Singapore
- 10:00 - 10:20am: Multi-Agent Object Transportation Inspired by the Innate and
Adaptive Immune Responses
Fredy Fernando Munoz and Luis Fernando Nino
University of Colombia, Colombia
- 10:20 - 10:40am: BREAK**
- 10:40 - 11:00am: Real Time Driving Data Collection and Driver Verification Using
CMAC-MFCC
Mohammad Khalid, Abdul Wahab and Norhaslinda Kamaruddin
Nanyang Technological University, Singapore
- 11:00 - 11:20am: A Model of Active Agent Design to Cope Hypertension's Emergencies
Situation Rapidly Home Healthcare
Eungyeong Kim and Malrey Lee
ChonBuk National University, ChonBuk, South Korea
- 11:20 - 11:40am: Region Restricted V-Detector Algorithm for Automatic Bearing
Testing Machines
Eduard Plett and Sanjoy Das
Kansas State University, Manhattan, Kansas, USA;
Kansas State University, Salina, Kansas, USA
- 11:40 - 12:00pm: Revealing Topological Properties of Terrorist Networks
Nicholas Harkiolakis, Nasrullah Memon, David L. Hicks, and Claus Atzenbeck
Hellenic American University, Athens, Greece
Aalborg University, Esbjerg, Denmark
- 12:00 - 12:20pm: Artificial Neural Networks Application in Forecast Population
Chlorophyll Content from Cotton Plant Digital Images
Xingmei Suo, Yingtao Jiang, Mei Yang, Shaokun Li, Keru Wang
Central University for Nationalities, China;
University of Nevada, USA
- 12:20 - 01:20pm: LUNCH (On Your Own)**

SESSION 6-ICAI: NOVEL APPLICATIONS, METHODOLOGIES, AND ALGORITHMS II
Chair: Dr. Orlando De Jesus, Halliburton Carrollton Technology Center, USA
July 15, 2008 (Tuesday); 01:20pm - 03:00pm
(LOCATION: Ballroom 2)

01:20 - 01:40pm: A New Type of Structured Artificial Neural Networks Based
on the Matrix Model of Computation
Sergio Pissanetzky
Research Scientist, Texas, USA

01:40 - 02:00pm: Applied Real Time Bearing Fault Diagnosis Based On Vibration
and Current Analysis
Cuneyt Aliustaoglu, H. Metin Ertunc, Hasan Ocak
Kocaeli University, Turkey

02:00 - 02:20pm: FREE SLOT

02:20 - 02:40pm: CMAC-GMM Driver Verification
Abdul Wahab, Ho Wai Keat and Norhaslinda Kamaruddin
Nanyang Technological University, Singapore

02:40 - 03:00pm: A.I. System for Automatic Synthesis of Trading Technologies and
Portfolios for Hedge Funds
Ekaterina Shalamitskaya, Sviatlana Staleuskaya and Valery Tsourikov
NILITIS LLC, Republic of Belarus

03:00 - 03:40pm: **DISCUSSION SESSION B-ICAI (Refreshments will be available)**
July 15, 2008 (Tuesday)
(LOCATION: Hallways - Ballrooms 1-5)

- 0. An Efficient Realization of an OCR System Using HDL
Azam Beg; UAE University Al-Ain, United Arab Emirate
- 0. An Architecture for Intelligent Email Based Workflow Interface
to Business Applications
Shefali Mohan Bhat, C. Anantaram, and Hemant Jain
Tata Consultancy Services, Gurgaon, India
- 0. Hybrid Knowledge Representation Scheme for Expert System
Hussein H. Owaied and Monzer Moh'd Qasem
Philadelphia University, Jordan;
The Arab Academy for Banking and Financial Sciences
- 0. Knowledge Discovery Based on Quantum Mechanism and Its Application
Keun-Chang Kwak; Chosun University, Korea
- 0. Solving the Constraint Satisfaction Problem Using Genetic Algorithms
Hassan Najadat, Hadeel Ammari, and Ismail Hmeidi
Jordan University for Science and Technology, Irbid, Jordan
- 0. Object Detection and Localization System Based on Neural Networks
for Robo-Pong
Reza Sabzevari, A. Shahri, A. R. Fasih, Saeid Masoumzadeh and
Mahdi Rezaei Ghahroudi
Islamic Azad University of Qazvin, Iran

SESSION 7-ICAI: NOVEL APPLICATIONS, METHODOLOGIES, AND ALGORITHMS III
Chair: Dr. Feng-Jen Yang, Prairie View A&M University, USA
July 15, 2008 (Tuesday); 03:40pm - 04:20pm
(LOCATION: Ballroom 2)

03:40 - 04:00pm: FREE SLOT

04:00 - 04:20pm: On the Development of an Automated Garphology System
P. Ahmed and Hassan I. Mathkour
King Saud University, Saudi Arabia

- SESSION 8-ICAI: ROBOTICS - AUTONOMOUS MOBILE ROBOTICS**
Chairs: Dr. Gene Simmons, Dr. Georgios Demetriou, and Dr. Michael Doran;
USA
July 15, 2008 (Tuesday); 04:20pm - 06:00pm
(LOCATION: Ballroom 2)
- 04:20 - 04:40pm: FREE SLOT
- 04:40 - 05:00pm: JagBot: A Robotic Campus Tour Guide
Michael V. Doran
University of South Alabama, Alabama, USA
- 05:00 - 05:20pm: 12-TET Walker Using a Quadrupedal Walking Algorithm
R. Marsh and K. Ogaard
University of North Dakota, Grand Forks, North Dakota, USA
- 05:20 - 05:40pm: FREE SLOT
- 05:40 - 06:00pm: Behavior-Based Perceptual Navigation for Semi-Autonomous
Wheelchair Operations
H. Uchiyama and W. D. Potter
University of Georgia, USA
- 06:00 - 09:30pm: Tutorials (please see the list of tutorials)**

6:45am - 5:00pm: Registration (Second Floor, Conference Lobby: 1-5)

SESSION 9-ICAI: KNOWLEDGE BASES FOR LEARNING

**Chairs: Dr. Raymond A. Liuzzi and Dr. Peter M. LaMonica;
Raymond Technologies, USA and US Air Force Research Lab,
AFRL/IFED, USA)**

**July 16, 2008 (Wednesday); 08:00am - 10:20am
(LOCATION: Ballroom 2)**

- 08:00 - 08:20am: Graph Mining Using Graph Pattern Profiles
Sofus A. Macskassy and Claude C. Nanjo
Fetch Technologies, El Segundo, California, USA
- 08:20 - 08:40am: Semi-Automated Framework for Ontology Management and Learning
Perakath Benjamin, Richard Mayer, and Dan Corlette
Knowledge Based Systems, Inc.
- 08:40 - 09:00am: Characterizing Documents for Information Extraction
Jeffrey Hudack, Mark Zappavigna, Warren Geiler, and Michael Corey
Air Force Research Laboratory, Rome, New York, USA
- 09:00 - 09:20am: Information Discovery - NLP Parsing Using Semantic Ontological Patterns
Anthony P. Stirtzinger and Sheri A. Stirtzinger
Securborator Corporation, Melbourne, Florida, USA
- 09:20 - 09:40am: The Cybercraft System Ontology: An Ontology for Reasoning about
Distributed Agent Capabilities
Aaron Wheeler, Jim Dike, Mark Wallace, Michael Winburn, and John Maxey
3-Sigma Research, Inc., Indialantic, Florida, USA;
Air Force Research Laboratory / RIGB, Rome, New York, USA
- 09:40 - 10:00am: Leveraging OWL-DL, SPARQL, and XSLT to Automate Cybercraft Configuration
Aaron Wheeler, Jim Dike, Mark Wallace, Michael Winburn, and John Maxey
3-Sigma Research, Inc., Indialantic, Florida, USA;
Air Force Research Laboratory / RIGB, Rome, New York, USA
- 10:00 - 10:20am: Net-Centric Rule Engines for Decision Support
Brian Xu, Andrew Kostrzewski, Peter LaMonica, Robert B. Jurgens
Physical Optics Corporation, California, USA;
Air Force Research Laboratory, Rome, New York, USA;
MITRE Corporation, Colorado Springs, Colorado, USA
- 10:20 - 10:40am: BREAK**

SESSION 10-ICAI: NEURAL NETWORKS AND APPLICATIONS I

Chairs: Dr. Feng-Jen Yang and Dr. D. V. Kodavade
Prairie View A&M University, USA

D.K.T.E.Society's Textile & Engineering Institute, India
July 16, 2008 (Wednesday); 10:40am - 12:20pm
(LOCATION: Ballroom 2)

10:40 - 11:00am: Speaker Independent Emotion Recognition System - SIERS
Norhaslinda Kamaruddin and Abdul Wahab
Nanyang Technological University, Singapore

11:00 - 11:20am: A Case Study Using Neural Networks Algorithms: Horse Racing
Predictions In Jamaica
Janett Williams and Yan Li
University of Technology, Jamaica
University of Southern Queensland, Australia

11:20 - 11:40am: Use of Neural Networks to Detect Impaired Cheating on the
Computerized CERAD Word List Memory Test
Timothy Chan and Amar Raheja
California State Polytechnic University, California, USA

11:40 - 12:00pm: A Comparison of Neural Network Architectures for Handwritten
Digit Recognition
Eman M. El-Sheikh, Bradley A. Swain, and Mohamed A. Khabou
University of West Florida, USA

12:00 - 12:20pm: Is Your Neural Network Learning or Memorizing?
Feng-Jen Yang
Prairie View A & M University, Prairie View, Texas, USA

12:20 - 01:20pm: LUNCH (On Your Own)

SESSION 11-ICAI: NEURAL NETWORKS AND APPLICATIONS II
Chair: Janett Williams, University of Technology, Jamaica and
University of Southern Queensland, Australia
July 16, 2008 (Wednesday); 01:20pm - 02:40pm
(LOCATION: Ballroom 2)

01:20 - 01:40pm: A Neural Network Controller for Nonlinear Time Delay Systems
Yuanliang Zhang and Kil To Chong
Chonbuk National University, Korea

01:40 - 02:00pm: Backpropagation Through Time for General Dynamic Networks
Orlando De Jesus and Martin T. Hagan
Halliburton Energy Services, USA;
Oklahoma State University, USA

02:00 - 02:20pm: A New Study on Gas Turbine Thermodynamic Component Performance
Degradation Assessment Based on RBF and SOM Neural Networks
Yongshan Ding, Dongxiang Jiang, Liangyou Hong, and Qian Huang
Tsinghua University, Beijing, P. R. China

02:20 - 02:40pm: FREE SLOT

02:40 - 03:00pm: FREE SLOT

03:00 - 03:40pm: **DISCUSSION SESSION C-ICAI (Refreshments will be available)**
July 16, 2008 (Wednesday)
(LOCATION: Hallways - Ballrooms 1-5)

- O. A New Non-Autonomous Chaotic Neural Network for Solving TSP
Kushan Ahmadian, Abbas Golestani, M. R. Jahed Motlagh and
Nasser Mozayani; Iran Univ. of Science & Technology, Iran
- O. Knowledge Object Modelling For Fault Diagnosis in Digital Hardware
D. V. Kodavade and S. D. Apt
D.K.T.E.Society's Textile & Engineering Institute, India
- O. Radiation Pattern Reconstruction For Localization Using
Artificial Neural Network
Jong Tae Kim; Sungkyunkwan University, South Korea
- O. SLAM for HAGAR
Nathaniel H. Stickney
United States Military Academy, USA

SESSION 12-ICAI: GENETIC AND EVOLUTIONARY ALGORITHMS AND APPLICATIONS
Chair: Janett Williams, University of Technology, Jamaica and
University of Southern Queensland, Australia
July 16, 2008 (Wednesday); 03:40pm - 04:40pm
(LOCATION: Ballroom 2)

- 03:40 - 04:00pm: A Multi-Objective Memetic Algorithm Based Clustering Method
Anh-Duc Do, Siu-Yeung Cho, and Yew-Soon Ong
Nanyang Technological University, Singapore
- 04:00 - 04:20pm: A Comparison of Memetic Algorithms and Grasp in a Rostering Problem
David de la Fuente Garcia and Jesus Lozano Mosterin
Superior Politechnic School of Engineering, Gijon, Spain
- 04:20 - 04:40pm: Car-Parking System Management Using Modular Generic Neural Networks
A. Cellatoglu, K. Balasubramanian and V. Joseph Raj
European University of Lefke, Turkey

SESSION 13-ICAI: SWARM OPTIMIZATION + ANT/BEEES COLONY SYSTEMS AND APPLICATIONS
Chair: Dr. D. V. Kodavade, D.K.T.E.Society's Textile & Engineering
Institute, India
July 16, 2008 (Wednesday); 04:40pm - 06:00pm
(LOCATION: Ballroom 2)

04:40 - 05:00pm: Plotting of Complete Bifurcation Diagrams Using Dynamic Environment Particle Swarm Optimization Algorithm
Julio Barrera, Juan J. Flores, and Claudio Fuerte-Esquivel
Universidad Michoacana de San Nicolas de Hidalgo, Mexico

05:00 - 05:20pm: Reliability Optimization of Series-Parallels Systems Using PSO Technique
H. Shayeghi, H. A. Shayanfar, M. Fotuhi Firuzabad, A. Jalili, and S. Molla Mohammadi Behnagh
Univ. of Mohaghegh Ardabili, Iran; Iran Univ. of Science & Tech., Iran; Islamic Azad Univ., Science & Research Branch, Tehran, Iran; Islamic Azad Univ., Ardabil Branch, Iran; Badr Tejarat Company, Tehran, Iran

05:20 - 05:40pm: Optimization of Neural Networks Using Swarm Intelligence
Matthew Conforth and Yan Meng
Stevens Institute of Technology, USA

05:40 - 06:00pm: Economic Dispatch of Power System Using the Modified Particle Swarm Optimization Algorithm
H. A. Shayanfar, H. Shayeghi, A. Shojaei, and A. Jalili
Islamic Azad Univ., Tehran Branch, Iran; Univ. of Mohaghegh Ardabili, Iran; Islamic Azad Univ., Ardebil branch, Iran

06:00 - 09:30pm: Tutorials (please see the list of tutorials)

6:45am - 5:00pm: Registration (Second Floor, Conference Lobby: 1-5)

SESSION 14-ICAI: APPLICATIONS OF ADVANCED AI TECHNIQUES TO INFORMATION MANAGEMENT FOR SOLVING COMPANY-RELATED PROBLEMS
Chairs: Dr. David de la Fuente and Dr. Jose A. Olivas; Spain
July 17, 2008 (Thursday); 08:00am - 12:00pm
(LOCATION: Ballroom 2)

08:00 - 08:20am: Parking Revenue Management
 Guadix J., Cortes P., Munuzuri J., Onieva L.
 University of Seville, Seville, Spain

08:20 - 08:40am: Flow Line System with Possibilistic Priority-Discipline:
 Adaptation and Development of Prade's Methodology
 De la Fuente D., Prado Ma J.
 Basque Country University, Bilbao, Spain

08:40 - 09:00am: FREE SLOT

09:00 - 09:20am: FREE SLOT

09:20 - 09:40am: C3NET: Smart Environment for .Net Code Generation using MDA
 Garcia-Diaz V., Fernandez-Fernandez H., Palacios-Gonzalez E.,
 Pelayo C., Cueva J. M.
 Universidad de Oviedo, Oviedo, Spain

09:40 - 10:00am: A Review of Intelligent Software Development Tools
 Palacios-Gonzalez E., Fernandez-Fernandez H., Garcia-Diaz V.,
 Pelayo C., Cueva J. M.
 Universidad de Oviedo, Oviedo, Spain

10:00 - 10:20am: Design of Intelligent Business Applications Based in BPM and MDE
 Fernandez-Fernandez H., Palacios-Gonzalez E., Garcia-Diaz V.,
 Pelayo C., Cueva J. M.
 Universidad de Oviedo, Oviedo, Spain

10:20 - 10:40am: BREAK

10:40 - 11:00am: Demand and Price Forecasting in Hotel Management
 De la Fuente D., Pino R., Parreino J.
 Universidad de Oviedo, Oviedo, Spain

11:00 - 11:20am: Fuzzy Search Method Applied to XML Native Databases
 Francisco P. Romero, Pablo Garces, Jesus Serrano-Guerrero, Jose A. Olivas
 University of Castilla La Mancha, Ciudad Real

11:20 - 11:40am: Agent-Enabled Design of Revenue Management Decision Support
 Systems for Small and Medium Hotel Enterprises
 Isabel Garcia and Alfonso Duran
 Universidad Carlos III de Madrid, Madrid, Spain

11:40 - 12:00pm: Generating Digital Fingerprints using Artificial Neural Networks
 Zapico D., Gonzalez R., Sanjuan O., Pelayo C.
 Universidad de Oviedo, Oviedo, Spain

- SESSION 15-ICAI: SWARM OPTIMIZATION + ANT/BEEES COLONY SYSTEMS AND APPLICATIONS**
Chair: Dr. D. V. Kodavade, D.K.T.E.Society's Textile & Engineering Institute, India
July 17, 2008 (Thursday); 12:00pm - 02:00pm
(LOCATION: Ballroom 2)
- 12:00 - 12:20pm: PSO Based Solution for Generation Expansion Planning
H. Shayeghi, H. A. Shayanfar, A. Jalili, and M. Hosseinzadeh
Univ. of Mohaghegh Ardabili, Iran; Islamic Azad Univ., Iran;
Univ. of Applied Science & Tech., Tehran, Iran
- 12:20 - 12:40pm: Application of Particle Swarm Optimization for Fuzzy AGC Design
H. A. Shayanfar, A. Jalili, and H. Shayeghi
Islamic Azad Univ., South Tehran Branch, Iran; Islamic Azad Univ.,
Ardebil branch, Iran; Univ. of Mohaghegh Ardabili, Iran
- 12:40 - 01:20pm: LUNCH (On Your Own)**
- 01:20 - 01:40pm: A Study of Combination Genetic Algorithm and MMAS for VRP Problem
Yupeng Zhang, MaRey Lee and Thomas Gatton
ChonBuk National University, Korea
- 01:40 - 02:00pm: Modeling Artificial Bees-Colony System
Hussein H. Owaied and Saif Mahmood Sa'ab
Philadelphia University, Jordan;
The Arab Academy for Banking and Financial Sciences

- SESSION 16-ICAI: SOCIAL NETWORKS + KNOWLEDGE ENGINEERING, DISCOVERY, AND DATA MINING I**
Chairs: Dr. Anne Hakansson and Dr. Ronald L. Hartung
Uppsala University, Uppsala, Sweden
Franklin University, Columbus, Ohio, USA
July 17, 2008 (Thursday); 02:00pm - 03:00pm
(LOCATION: Ballroom 2)
- 02:00 - 02:20pm: Culturally Infused Social Network Analysis
Eunice E. Santos, Eugene Santos, Jr., Long Pan, & John Wilkinson
Virginia Tech, Blacksburg, Virginia, USA;
Dartmouth, Hanover, New Hampshire, USA
- 02:20 - 02:40pm: Mediating Social Networking Using Software Agents - The
CarPooling Use Case
Fano Ramparany
Orange Labs, France Telecom, Meylan, France
- 02:40 - 03:00pm: Using self Organizing Maps and Nearest-Neighbor to Data Clustering
Clodis Boscarioli, Emilio Del Moral Hernandez, and
Leandro Augusto da Silva
West Parana State University (UNIOESTE), Brazil;
Polytechnic School - University of Sao Paulo (USP), Brazil

03:00 - 03:40pm: **DISCUSSION SESSION D-ICAI (Refreshments will be available)**
July 17, 2008 (Thursday)
(LOCATION: Hallways - Ballrooms 1-5)

- 0. Information Assorting Technique for Classifying and Summarizing Documents Using Association System
 Hirokazu Watabe, Eriko Yoshimura, Seiji Tsuchiya & Tsukasa Kawaoka
 Doshisha University, Japan; University of Tokushima, Japan
- 0. A Detection Method of Illogical Adjective Phrase for Computer Conversation
 Eriko Yoshimura, Seiji Tsuchiya, Hirokazu Watabe & Tsukasa Kawaoka
 Doshisha University, Japan; University of Tokushima, Japan
- 0. An Application of Probability to Solving Engineering Optimization Problems
 Thong Huu Nguyen and Hao Van Tran
 University of Pedagogy, Vietnam
- 0. A Quest to Unify the Abstract Interpretation Theory of Logic Programs
 Kaninda Musumbu; Universite Bordeaux, France
- 0. Nepali Word Sense Disambiguation
 Niraj Shrestha; Kathamndu University, Nepal
- 0. Feasibility Study for a Recommendation System for Elearning Environments Application
 Oscar Sanjuan-Martinez, B. Cristina Pelayo G-Bustelo,
 Yago Saez Achaerandio, Luis Rodriguez Baena, Enrique Torres Franco,
 Hector Castan Rodriguez, Javier Parra Fuente
 Univ. of Oviedo, Spain; Univ. Carlos III, Spain;
 Pontifical Univ. of Salamanca, Spain
- 0. A Study of Learning Estimation Using Ubiquitous Intelligence
 Chang-Duk Jung, You-Sik Hong, and Choong-ho Cho
 Sangji University, Korea

- SESSION 17-ICAI: SOCIAL NETWORKS + KNOWLEDGE ENGINEERING, DISCOVERY, AND DATA MINING II**
Chairs: Dr. Anne Hakansson and Dr. Ronald L. Hartung
Uppsala University, Uppsala, Sweden
Franklin University, Columbus, Ohio, USA
July 17, 2008 (Thursday); 03:40pm - 06:00pm
(LOCATION: Ballroom 2)
- 03:40 - 04:00pm: A Connectionist Approach to Producing Rules Describing Monthly UK Divisia Data
Vincent A. Schmidt and Jane M. Binner
Air Force Research Laboratory, USA; Aston University, UK
- 04:00 - 04:20pm: Software and Hardware System Integration and Intelligent Automation Using Ontology-based Knowledge Representation Technology
Jeffrey W. Wallace and Barbara J. Hannibal
Carpe Occasio Technology Systems, USA
- 04:20 - 04:40pm: Knowledge and Taxonomy of Intellect
Peeter Lorents
EBS Estonian Business School, Estonia
- 04:40 - 05:00pm: A Sequential Hierarchical Superset Implementation of Neocortex Memory System and its Case Study of Automated Network Forensic Analysis
Muhammad Fermi Pasha, Rahmat Budiarto, and Mohammad Syukur
University Sains Malaysia, Pulau Pinang, Malaysia;
University of Sumatera Utara, Indonesia
- 05:00 - 05:20pm: Using AI to Reconstruct Claude Bernard's Empirical Investigations
Bassel Habib and Jean-Gabriel Ganascia
University of Paris 6, France
- 05:20 - 05:40pm: FREE SLOT
- 05:40 - 06:00pm: FREE SLOT

ICOMP'08 CONFERENCE SCHEDULE

The 2008 International Conference on Internet Computing

Monte Carlo Resort, Las Vegas, Nevada, July 14-17, 2008

Note 1:

There are a number of other sessions (not listed as part of ICOMP'08 schedule) that are of significant interest to ICOMP conference participants (sessions belonging to other joint conferences in this event.) Therefore, you are encouraged to also check the schedules for other joint conferences. In particular, some sessions in PDPTA'08, GCA'08, ICWN'08, SWWS'08, SAM'08, EEE'08, FECS'08, and CIC'08, discuss topics that are within the scope of ICOMP; these have been scheduled so that ICOMP attendees can also participate in them.

Note 2:

Each conference is divided into a number of topical sessions. These sessions are not necessarily scheduled in the same room/location. Therefore, conference attendees are to check the location of the session(s) they wish to attend - The conference room numbers appear in this document.

July 13

03:00 - 09:00pm: REGISTRATION (Second Floor, Conference Lobby; 1-5)

- 6:30am - 5:00pm: Registration (Second Floor, Conference Lobby: 1-5)
- 08:30 - 08:45am: WORLDCOMP'08 Opening Remarks
Prof. Hamid R. Arabnia (General Chair & Coordinator)
University of Georgia, Georgia, USA
(LOCATION: Lance Burton Theater)
- 08:45 - 09:35am: Keynote Lecture 1:
The Parallel Computing Landscape: A Berkeley View 2.0
Prof. David A. Patterson
Pardee Prof. of CS; Director, RAD Lab & Par Lab; Past
President, ACM; Member, National Academy of Engineering;
Member, National Academy of Sciences; Fellow of IEEE, ACM,
& AAAS; University of California at Berkeley.
(LOCATION: Lance Burton Theater)
- 09:40 - 10:25am: Keynote Lecture 2:
Searching in the "Real World"
Prof. Ophir Frieder
The Royden B. Davis, SJ, Chair in Interdisciplinary
Studies at Georgetown University; IITRI Chair Professor
of CS at Illinois Institute of Technology; Director,
Information Retrieval lab; Fellow of IEEE, ACM, and AAAS
(LOCATION: Lance Burton Theater)
- 10:30 - 11:15am: Keynote Lecture 3:
Achieving your Dreams
Anousheh Ansari
CEO, Chairman and Co-founder of Prodea Systems, Inc., USA;
Space Ambassador
(LOCATION: Lance Burton Theater)
- 11:15a - 12:00p: Keynote Lecture 4:
Dimensions in Reconfigurable Computing: A New Wave in
Electronic System Designs
Chris Phillips
Vice President of Engineering at ElementCXI, USA
(LOCATION: Lance Burton Theater)
- 12:00 - 01:00pm: LUNCH (On Your Own)

SESSION 1-ICOMP: SPAM, EMAIL AND SECURITY

Chair: Dr. Roman Tankelevich

Colorado School of Mines, Colorado, USA

July 14, 2008 (Monday); 01:00pm - 01:40pm

(LOCATION: Copper Room)

01:00 - 01:20pm: The Price of Security: A Performance Study of Web Application Security
Chengyu Sun
California State University, Los Angeles, California, USA

01:20 - 01:40pm: Generating Web Monitors
Nader Mohamed, Ahlam Romaihi, Eiman Samahi, Maitha D. Kendi, and Ebtisam Jabrie
United Arab Emirates University, Al Ain, United Arab Emirates

SESSION 2-ICOMP: TCP, IP AND ARCHITECTURES + ROUTING TECHNIQUES AND PROTOCOLS
Chair: Steven Latre, Ghent University, Belgium
July 14, 2008 (Monday); 01:40pm - 02:20pm
(LOCATION: Copper Room)

01:40 - 02:00pm: A Parallel Download Protocol for Internet-Based Distributed Systems
Michael Brock and Andrzej Goscinski
Deakin University Pigdons Road, Australia

02:00 - 02:20pm: mDNS - A Proposal for Hierarchical Multicast Session Directory
Architecture
Piyush Harsh and Richard Newman
University of Florida, Gainesville, Florida, USA

- SESSION 3-ICOMP: ALGORITHMS**
Chair: Dr. Nader Mohamed, UAE University, UAE
July 14, 2008 (Monday); 02:20pm - 04:00pm
(LOCATION: Copper Room)
- 02:20 - 02:40pm: A Derivation of Spatial Internet Traffic Flow
James R. Gatewood and Donald A. Drew
Rensselaer Polytechnic Institute, USA
- 02:40 - 03:00pm: LCS Based Classification Algorithm for Online Prediction in
WUM Personalization System
Mehrdad Jalali, Nowati Mustapha, Ali Mamat, Md. Nasir B Sulaiman
Putra University of Malaysia, Malaysia
- 03:00 - 03:20pm: BREAK**
- 03:20 - 03:40pm: XOFilter: A System for Filtering Heterogeneous XML Streams Based
on Ontology
Weidong Yang, Xiaodong Yang, and Bowen Yuan
Fudan University, P. R. China
- 03:40 - 04:00pm: Examination Virtual Proctor
Kalyani Mellachervu and Kamyar Dezhgosha
The University of Illinois at Springfield, USA
- 04:00 - 06:00pm: During this period, ICOMP'08 attendees are encouraged to participate
in sessions belonging to PDPTA'08, GCA'08, ICWN'08, SWWS'08,
SAM'08, EEE'08, FECS'08, or CIC'08. These sessions discuss
topics that overlap the scope of ICOMP'08.**
- 06:00 - 09:00pm: Tutorials (please see the list of tutorials)**
- 09:10 - 11:30pm: CONFERENCE RECEPTION DINNER & BANQUET KEYNOTE - July 14 (Monday)**
**High Performance Computing and Computational Intelligence: Link
to the Translational Medicine and Personalized Healthcare**
Dr. Jack Y. Yang and Dr. Mary Qu Yang
Harvard University, Massachusetts, USA and
National Human Genome Research Institute, NIH, Bethesda, USA
(LOCATION: Ballrooms 1-5)
-

6:45am - 5:00pm: Registration (Second Floor, Conference Lobby: 1-5)

SESSION 4-ICOMP: THE 6TH INT'L WORKSHOP ON XML TECHNOLOGY & APPLICATIONS - XMLTech'08
Chair: Dr. Joan Lu, University of Huddersfield, UK
July 15, 2008 (Tuesday); 08:00am - 10:00am
(LOCATION: Copper Room)

08:00 - 08:20am: Using XML Similarity to Enhance SOAP Messages Security Policies Evaluation
Stefania Marrara
University of Milano, Italy

08:20 - 08:40am: Mobile Agent Based Data Fusion For Wireless Sensor Networks
with a XML Framework
Gehao Lu, Joan Lu, and Jim Yip
University of Huddersfield, United Kingdom

08:40 - 09:00am: Understanding XML Security with a Case Study
Joan Lu and Nathan Cripps
University of Huddersfield, United Kingdom

09:00 - 09:20am: XML Description for DSC
Gehao Lu, Kunman Li, and Shia Dan

09:20 - 09:40am: The Study and Actualization of Key Technologies in WebGIS Based on XML
Hao Li, Joan Lu, and Gehao Lu

09:40 - 10:00am: Investigation on FIPA Agent Communication Mechanism Based on Web Service
Gehao Lu, Joan Lu, Shaowen Yao, and Jim Yip

- SESSION 5-ICOMP: THE WWW AND INTRANETS**
Chairs: Dr. Roger Eggen and Dr. David J. Russomanno
University of North Florida, Jacksonville, Florida, USA
The University of Memphis, Tennessee, USA
July 15, 2008 (Tuesday); 10:00am - 10:40am
(LOCATION: Copper Room)
- 10:00 - 10:20am:** Ruby, PHP, Perl, Python: A Web Efficiency Comparison
Roger Eggen, Curt Jones, and Maurice Eggen
University of North Florida, USA; Trinity University, USA
- 10:20 - 10:40am:** A Web Monitoring Application Based on Java Technologies
Andrian Penate Sanchez, Ignacio Solinis Camalich,
Alexis Quesada Arencibia, and Jose Carlos Rodriguez Rodriguez
Universidad de Las Palmas de Gran Canaria, Spain
- 10:40 - 11:00am: BREAK**
- 11:00a - 06:00p:** During this period, ICOMP'08 attendees are encouraged to participate in sessions belonging to PDPTA'08, GCA'08, ICWN'08, SWWS'08, SAM'08, EEE'08, FECS'08, or CIC'08. These sessions discuss topics that overlap the scope of ICOMP'08.
- 06:00 - 09:30pm: Tutorials (please see the list of tutorials)**
-

6:45am - 5:00pm: Registration (Second Floor, Conference Lobby: 1-5)

08:00 - 11:40am: During this period, ICOMP'08 attendees are encouraged to participate in sessions belonging to PDPTA'08, GCA'08, ICWN'08, SWS'08, SAM'08, EEE'08, FECS'08, or CIC'08. These sessions discuss topics that overlap the scope of ICOMP'08.

11:40a - 12:40p: LUNCH (On Your Own)

SESSION 6-ICOMP: NOVEL APPLICATIONS
Chair: Prof. Victor Clincy, Kennesaw State University, Georgia, USA
July 16, 2008 (Wednesday); 12:40pm - 02:00pm
(LOCATION: Copper Room)

12:40 - 01:00pm: Electronic Virtual Stamps: A New Paradigm in Internet Communication
R. Tankelevich, P. Astakhov, and A. Klimov
Colorado School of Mines, Colorado, USA

01:00 - 01:20pm: Future Online Rich Media Advertising
Ginger Rosenkrans
Pepperdine University, USA

01:20 - 01:40pm: Applying Mashup and Mapping Technologies for Integrating
Real Estate Information
Chung-Chu (George) Hsieh
Norfolk State University, Virginia, USA

01:40 - 02:00pm: Effective Corporate Information Security Policies
Victor Clincy and Godwin Fumey-Nassah
Kennesaw State University, Georgia, USA

SESSION 7-ICOMP: PROTOCOLS

Chair: Prof. Kathy Liszka, The University of Akron, USA
July 16, 2008 (Wednesday); 02:00pm - 03:00pm
(LOCATION: Copper Room)

- 02:00 - 02:20pm: Hailstorm - A Revolutionary Method for Data Transfer
M. Vaiibhav, K. P. M. Ganesh, and Balaji Sunder
Sri Sai Ram Engineering College, India
- 02:20 - 02:40pm: Revenue Maximization in Survivable WDM Networks for Single and Mixed Class of Traffic with Quality of Service (QoS) Guarantees
Vishal Anand
SUNY College at Brockport, New York, USA
- 02:40 - 03:00pm: A Transformation Framework for XML-based Data Transformation Agent for Data Warehousing
Shagufta Hina and Maqbool Uddin Shaikh
COMSATS Institute of Information Technology, Islamabad, Pakistan

**03:00 - 03:40pm: DISCUSSION SESSION A-ICOMP (Refreshments will be available)
July 16, 2008 (Wednesday)
(LOCATION: Hallways - Ballrooms 1-5)**

- 0. Active Congestion Control for Improved TCP Throughput
G. P. Bhole and S. A. Patekar
Veermata Jijabai Technological Institute (VJTI), Mumbai, India
- 0. Incorporation of Performance Enhancement Proxy (PEP) for Improvement of TCP Throughput
G P Bhole and S A Patekar
Veermata Jijabai Technological Institute (VJTI), India
- 0. Web-Based Medical Diagnosis System Using a Fuzzy Approach
C. Bokhoree and O. Gukhool; University of Technology, Mauritius
- 0. Design the Migration-Based Partitioning Method for Balancing Server Load in DVE
Dongkee Won, Dongun An, and Seungjong Chung
Chonbuk National University, Korea
- 0. Internet Age - How Old Are You on the Internet?
Zeeshan-ul-hassan Usmani, Sultan Altukhaim, and Talal Naveed Puri
Florida Institute of Technology, Melbourne, Florida, USA
- 0. A Real-time Physiological Parameters Telemonitoring System with the Internet Audio/Video Chatting Function
Xiuqing Han, Yongfeng Zhang, Lisha Liu, and Yimin Li
Shenzhen Polytechnic, Shenzhen, Guangdong, P. R. China
- 0. Electronic Virtual Stamps: A New Paradigm in Internet Communication
R. Tankelevich, P. Astakhov, and A. Klimov
Colorado School of Mines, Colorado, USA

- SESSION 8-ICOMP: THE WWW AND INTRANETS + SCHEDULING MODELS**
Chair: Prof. Kathy Liszka, The University of Akron, USA
July 16, 2008 (Wednesday); 03:20pm - 05:00pm
(LOCATION: Copper Room)
- 03:20 - 03:40pm: Web Prefetching with Machine Learning Algorithms
 Qinghui Liu and Roberto Solis-Oba
 University of Western Ontario, Canada
- 03:40 - 04:00pm: Collaborative Pattern Design System Model Based on Web Technology
 Uchang Park, Mijin Kim, and Eunoak Lee
 Duksung Women's University, Seoul, Korea
- 04:00 - 04:20pm: Building Embedded Client Honeypots for Real-Time Safe Surfing
 Yuji Miyake and Yoichi Muraoka
 Waseda University, Tokyo, Japan
- 04:20 - 04:40pm: Pre-DNS: A New Way of Web Acceleration
 Yi Yuan and JunLi Yuan
 George Mason University, USA;
 National University of Singapore, Singapore
- 04:40 - 05:00pm: A Dynamic Economy-Based Scheduling Model for Distributed
 Instrumentation System
 Yuli Jin, Tiejian Luo, Jinliang Song, Fei Gao, and Wei Liu
 Graduate University of Chinese Academy Sciences, Beijing, P. R. China
- 05:00 - 06:00pm: **During this period, ICOMP'08 attendees are encouraged to participate
 in sessions belonging to PDPTA'08, GCA'08, ICWN'08, SWS'08,
 SAM'08, EEE'08, FECS'08, or CIC'08. These sessions discuss
 topics that overlap the scope of ICOMP'08.**
- 06:00 - 09:30pm: **Tutorials (please see the list of tutorials)**

6:45am - 5:00pm: Registration (Second Floor, Conference Lobby: 1-5)

08:00 - 10:00am: During this period, ICOMP'08 attendees are encouraged to participate in sessions belonging to PDPTA'08, GCA'08, ICWN'08, SWWS'08, SAM'08, EEE'08, FECS'08, or CIC'08. These sessions discuss topics that overlap the scope of ICOMP'08.

SESSION 9-ICOMP: XML + MULTICAST BASED PROTOCOLS AND LOAD BALANCING
Chair: Prof. Samratvivekanand Omprakash Khanna
Charutar Vidyamandal - S.P. University, India
July 17, 2008 (Thursday); 10:00am - 11:40am
(LOCATION: Copper Room)

10:00 - 10:20am: On the Suitability of XML and Its Quality Framework of Languages Based on Models for Representing Interactive Systems
Mohamed Taleb, Ahmed Seffah, and Alain Abran
Concordia University, Montreal, Quebec, Canada
University of Quebec, Montreal, Quebec, Canada

10:20 - 10:40am: On-Line Estimation of the QoE of Progressive Download Services in Multimedia Access Networks
S. Latre, N. Staelens, P. Simoens, B. De Vleeschauwer,
W. Van de Meerssche, F. De Turck, B. Dhoedt, and P. Demeester
Ghent University - IBBT, Gent, Belgium

10:40 - 11:00am: Secure Scalable and Reliable Mobile Multicast with FI-Based Local Group Key
Jinsuk Baek, Paul S. Fisher, Mingyung Kwak, and Hyungoo Han
Winston-Salem State University, USA;
Hankuk University of Foreign Studies, Korea

11:00 - 11:20am: Modification of Channel Based IP Multicasting to Support Many to Many Communications
Sachin Tripathi and G. P. Biswas
Indian School of Mines University, Jharkhand, India

11:20 - 11:40am: Enabling Platform for Mobile Content Generation Based on 2D Barcodes
Olivier Van Laere, Matthias Strobbe, Philip Leroux, Bart Dhoedt,
Filip De Turck, and Piet Demeester
Ghent University - IBBT, Gent, Belgium

11:40a - 01:00p: LUNCH (On Your Own)

01:00 - 03:00pm: During this period, ICOMP'08 attendees are encouraged to participate in sessions belonging to PDPTA'08, GCA'08, ICWN'08, SWS'08, SAM'08, EEE'08, FECS'08, or CIC'08. These sessions discuss topics that overlap the scope of ICOMP'08.

03:00 - 03:40pm: DISCUSSION SESSION B-ICOMP (Refreshments will be available)
July 17, 2008 (Thursday)
(LOCATION: Hallways - Ballrooms 1-5)

- O. Autonomous Servers for Regular Data Broadcasting in Wireless Mobile Environment
John Tsiligaridis; Heritage University, USA
- O. LeaCoR: A WWW Based Least Cost Purchase System in the Electricity Market
Kirsten Simons, Jorg Petersen, and Hans-Dieter Kochs
University of Duisburg-Essen, Germany
- O. Email Scripting Language
Samratvivekanand Omprakash Khanna
CVM and S. P. University, Gujarat, India
- O. New Datatype Inticbi
Samratvivekanand Omprakash Khanna
CVM and S. P. University, Gujarat, India

ICWN'08 CONFERENCE SCHEDULE

The 2008 International Conference on Wireless Networks

Monte Carlo Resort, Las Vegas, Nevada, July 14-17, 2008

Note 1:

There are a number of other sessions (not listed as part of ICWN'08 schedule) that are of significant interest to ICWN conference participants (sessions belonging to other joint conferences in this event.) Therefore, you are encouraged to also check the schedules for other joint conferences. In particular, some sessions in PDPTA'08, GCA'08, ICOMP'08, SWWS'08, SAM'08, ESA'08, FECS'08, and CIC'08 discuss topics that are within the scope of ICWN; these have been scheduled so that ICWN attendees can also participate in them.

Note 2:

Each conference is divided into a number of topical sessions. These sessions are not necessarily scheduled in the same room/location. Therefore, conference attendees are to check the location of the session(s) they wish to attend - The conference room numbers appear in this document.

July 13

03:00 - 09:00pm: REGISTRATION (Second Floor, Conference Lobby; 1-5)

- 6:30am - 5:00pm: Registration (Second Floor, Conference Lobby: 1-5)
- 08:30 - 08:45am: WORLDCOMP'08 Opening Remarks
Prof. Hamid R. Arabnia (General Chair & Coordinator)
University of Georgia, Georgia, USA
(LOCATION: Lance Burton Theater)
- 08:45 - 09:35am: Keynote Lecture 1:
The Parallel Computing Landscape: A Berkeley View 2.0
Prof. David A. Patterson
Pardee Prof. of CS; Director, RAD Lab & Par Lab; Past
President, ACM; Member, National Academy of Engineering;
Member, National Academy of Sciences; Fellow of IEEE, ACM,
& AAAS; University of California at Berkeley.
(LOCATION: Lance Burton Theater)
- 09:40 - 10:25am: Keynote Lecture 2:
Searching in the "Real World"
Prof. Ophir Frieder
The Royden B. Davis, SJ, Chair in Interdisciplinary
Studies at Georgetown University; IITRI Chair Professor
of CS at Illinois Institute of Technology; Director,
Information Retrieval lab; Fellow of IEEE, ACM, and AAAS
(LOCATION: Lance Burton Theater)
- 10:30 - 11:15am: Keynote Lecture 3:
Achieving your Dreams
Anousheh Ansari
CEO, Chairman and Co-founder of Prodea Systems, Inc., USA;
Space Ambassador
(LOCATION: Lance Burton Theater)
- 11:15a - 12:00p: Keynote Lecture 4:
Dimensions in Reconfigurable Computing: A New Wave in
Electronic System Designs
Chris Phillips
Vice President of Engineering at ElementCXI, USA
(LOCATION: Lance Burton Theater)
- 12:00 - 12:40pm: LUNCH (On Your Own)

**12:40 - 01:20pm: DISCUSSION SESSION A-ICWN (Refreshments will be available)
July 14, 2008 (Monday)
(LOCATION: Hallways - Ballrooms 1-5)**

- 0. Proactive Probabilistic Routing in Mobile Ad Hoc Networks
Abdelfettah Belghith, Hanen Idoudi, and Miklos Molnar
Univ. of Manouba, Tunisia; IRISA, Campus de Beaulieu, Rennes, France
- 0. Comparison of Evaluation Parameters Based on Mobility
Management Protocols in Wireless Networks
Golrokh Mirzaei and Morteza Analoui
Iran University of Science and Technology, Iran
- 0. Analysis of the Channel Property for Mobile Satellite Communications
Jonghoon Lee, Baihua Zhu, and Sangseob Song
Chonbuk National University, Korea
- 0. Fault Tolerant Clustering Approaches in Wireless Sensor
Network for Landslide Area Monitoring
Rehana raj T, Maneesha V Ramesh and Sangeeth k
Amrita University, India
- 0. 3D Geographical Routing in Wireless Sensor Networks
Mohamed Watfa and Alaa al Tahaan
American University of Beirut, Lebanon
- 0. A Distributed Target Tracking Algorithm for Near/Far Binary
Sensor Networks
Danial Aghajarian and Reza Berangi
Iran University of Science and Technology, Tehran, Iran
- 0. HSDD: The Method of Hierarchical Section-based Data Dissemination
in Wireless Sensor Networks
Hayoung Ryu, Eunjoo Jeong, Sangjun Park, Jongchan Lee,
Youngsong Mun, and Byuggi Kim
Soongsil University, Korea; Kunsan National University, Korea
- 0. Robustness of Grid-based Deployment in Wireless Sensors Network
Manjiri Joshi, Ramya Pulimati, Srikanth Edula, and Huirong Fu
Oakland University, USA
- 0. Biologically Inspired Data Propagation and Aggregation Method
for Wireless Sensor Networks
Joshua Freeman, Anish Mohan, and Maneesha V. Ramesh
Amrita University, India

01:20 - 03:20pm: During this period, ICWN'08 attendees are encouraged to participate in sessions belonging to PDPTA'08, GCA'08, ICOMP'08, SWWS'08, SAM'08, ESA'08, FECS'08, or CIC'08. These sessions discuss topics that overlap the scope of ICWN'08.

SESSION 1-ICWN: WIRELESS COMMUNICATION + MOBILE AND WIRELESS AD HOC NETWORKING
Chair: Dr. Victor A. Clincy, Kennesaw State University, Georgia, USA
July 14, 2008 (Monday); 03:20pm - 04:40pm
(LOCATION: Ballroom 3)

03:20 - 03:40pm: HEAPINGS: From Concept to Simulations
Fred Strickland and Yu Wang
Auburn University, Auburn, Alabama, USA

03:40 - 04:00pm: Accuracy of the ITGuru Wireless Model
Victor Clincy and Steven Benzel
Kennesaw State University, Georgia, USA

04:00 - 04:20pm: FREE SLOT

04:20 - 04:40pm: FREE SLOT

- SESSION 2-ICWN: AUTONOMOUS MOBILE SENSOR NETWORKS**
Chairs: Prof. Howard E. Michel and Fred L. Strickland
University of Massachusetts, Dartmouth, MA, USA
Auburn University, Auburn, Alabama, USA
July 14, 2008 (Monday); 04:40pm - 06:00pm
(LOCATION: Ballroom 3)
- 04:40 - 05:00pm: Efficient Self Configuration and Coding for Autonomous Mobile Sensor Networks
Ali Abedi
University of Maine, Orono, Maine, USA
- 05:00 - 05:20pm: When Collective Dynamic Knowledge is Greater Than the Sum of its Parts: the Case for Mobile Wireless Sensor Networks
Oscar N. Garcia, Shengli Fu, and Xinrong Li
University of North Texas, Texas, USA
- 05:20 - 05:40pm: Multi-Scale Adaptive Sampling with Mobile Robots for Mapping of Forest Fires
Muhammad F. Mysorewala and Dan O. Popa
University of Texas at Arlington, Texas, USA
- 05:40 - 06:00pm: Integrated Technical Reference Model and Sensor Network Architecture
Hemant Joshi and Howard E. Michel
University of Massachusetts, Dartmouth, North Dartmouth, MA, USA
- 06:00 - 09:00pm: **Tutorials (please see the list of tutorials)**
- 09:10 - 11:30pm: **CONFERENCE RECEPTION DINNER & BANQUET KEYNOTE - July 14 (Monday)**
High Performance Computing and Computational Intelligence: Link to the Translational Medicine and Personalized Healthcare
Dr. Jack Y. Yang and Dr. Mary Qu Yang
Harvard University, Massachusetts, USA and
National Human Genome Research Institute, NIH, Bethesda, USA
(LOCATION: Ballrooms 1-5)

6:45am - 5:00pm: Registration (Second Floor, Conference Lobby: 1-5)

SESSION 3-ICWN: WIRELESS COMMUNICATION + MOBILE AND WIRELESS AD HOC NETWORKING
Chair: Dr. Victor A. Clincy, Kennesaw State University, Georgia, USA)
July 15, 2008 (Tuesday); 08:00am - 09:00am
(LOCATION: Ballroom 3)

08:00 - 08:20am: Path Maintenance for On Demand Routing in Mobile Ad Hoc Networks
Sumesh Philip, Raj Gurung, and Vishal Anand
SUNY College at Brockport, New York, USA

08:20 - 08:40am: Performance Study on Mobile IPv4 Vs IPv6
Victor Clincy and Olayemi Olagbegi
Kennesaw State University, Georgia, USA

08:40 - 09:00am: On the Design and Implementation of a System Integrating Outlook
Mobile Services with the Short Message Service
Ron Vetter, Shaun Border, and Jeff Brown
University of North Carolina, Wilmington, North Carolina, USA

SESSION 4-ICWN: OPTIMIZATION TECHNIQUES

Chairs: Jamie Lawson and Mohammad Mesbah Uddin
Lockheed Martin, USA
Kyushu University, Fukuoka, Japan
July 15, 2008 (Tuesday); 09:00am - 10:40am
(LOCATION: Ballroom 3)

- 09:00 - 09:20am: A Comparative Analysis on Performance of Route Optimization with Security in Mobile IPv6
 In-Hye Shin, Gyung-Leen Park, and Junghoon Lee
 Cheju National University, Korea
- 09:20 - 09:40am: A Robustness Based Ant Colony Optimization Routing for Ad Hoc Networks with GPSs
 Daisuke Kadono, Tomoko Suzuki, Fukuhito Ooshita, Hirotsugu Kakugawa, and Toshimitsu Masuzawa
 Osaka University, Toyonaka, Osaka, Japan
- 09:40 - 10:00am: Multiple-Optimizing Wireless Sensor Networks with MIMO Technology
 Wei Chen, Miao He, Fletch Gregory
 Tennessee State University, USA
- 10:00 - 10:20am: Optimization of Cellular Networks Capacity and Densification - An Analytical Approach
 Philippe Ezran and Jean-Marc Kelif
 France Telecom R&D, France
- 10:20 - 10:40am: A Unified Formulation of the Multicast Lifetime Optimization Problem in WANETs with Configurable Antennas
 Song Guo, Xiaofei Liu, and Victor Leung
 University of British Columbia, Vancouver, British Columbia, Canada;
 University of Ottawa, ON, Canada
- 10:40a - 01:00p: During this period, ICWN'08 attendees are encouraged to participate in sessions belonging to PDPTA'08, GCA'08, ICOMP'08, SWWS'08, SAM'08, ESA'08, FECS'08, or CIC'08. These sessions discuss topics that overlap the scope of ICWN'08.**

- SESSION 5-ICWN: SENSOR NETWORKS I**
Chairs: Dr. Mohammad Abdus Salam and Abdulaziz Barnawi
Southern University, Baton Rouge, LA, USA
Carleton University, Canada
July 15, 2008 (Tuesday); 01:00pm - 03:00pm
(LOCATION: Ballroom 3)
- 01:00 - 01:20pm: ESTR - Energy Saving Token Ring Protocol for Wireless Sensor Networks
Faruk Bagci, Theo Ungerer and Nader Bagherzadeh
University of California, Irvine, USA
- 01:20 - 01:40pm: Routing-Aware Coloring in TDMA for Time-Critical Data
Aggregation Applications in Wireless Sensor Networks
Tiegeng Ren, Timothy Henry, Lisa DiPippo, Kevin L. Bryan,
Victor Fay-Wolfe
University of Rhode Island, USA
- 01:40 - 02:00pm: Automatic Position Determination of Fixed Infrastructure
Sensor Network Nodes based on Topology Sensing and Maps
Werner Kurschl, Wolfgang Gottesheim, Stefan Mitsch, Rene Prokop,
and Johannes Schonbock
Upper Austria University of Applied Sciences, Austria
- 02:00 - 02:20pm: Modeling Attacks on Wireless Sensor Networks
Vikram Chilukoti, Doriel Josic, and Huirong Fu
Oakland University, USA
- 02:20 - 02:40pm: A Finite Queue Model Analysis of PMRC-Based Wireless Sensor Networks
Qiaoqin Li, Mei Yang, Hongyan Wang, Yingtao Jiang, and Jiazhi Zeng
University of Nevada Las Vegas, Nevada, USA;
University of Electronic Science and Technology, Sichuan, P. R. China
- 02:40 - 03:00pm: An Efficient Mobile Object Tracking Method Based on Dynamic
Clustering in Sensor Network
Jaebok Park, Yoonhwan Park, Seunghae Kim, and Gihwan Cho
Chonbuk National University, Korea;
Korea Institute of Science and Technology, Korea

03:00 - 03:40pm: **DISCUSSION SESSION B-ICWN (Refreshments will be available)**
July 15, 2008 (Tuesday)
(LOCATION: Hallways - Ballrooms 1-5)

- 0. SensorML and HUML in Situation Awareness Processing for Autonomous Mobile Sensor Networks
David Dodds; Open-Meta Computing, Canada
- 0. Dynamic Location Area Management Scheme for Hierarchical Mobile IPv6
Soohyun Kim, SeongGeun Ryu, and Youngsong Mun
Soongsil University, Korea
- 0. Threshold Based Data Aggregation Algorithm To Detect Rainfall Induced Landslides
Maneesha V. Ramesh and P. V. Ushakumari
Amrita University, India
- 0. Data Processing Response Time Model for Base Stations of Sensor Networks
JangSu Park and Byoungchul Ahn
Yeungnam University, Korea
- 0. IP-Surveillance System for Unmanned Platforms of Offshore Oil and Gas Field Using WiMAX Technology
Mvv Siva Prasad and P. S. Avadhani
Andhra University, India
- 0. A Bandwidth-Efficient Multicasting Approach for Wide Area Networks
B. Gupta, S. Rahimi, R. Chirra, and P. Chimakurthy
Southern Illinois University, USA
- 0. Performance Comparison of MAODV and ZBMRP
Maram Al-Zaidi, Mohammad Qataweh and Emad Salah
University of Jordan, Jordan
- 0. Development of User Interface for Home Security Monitoring System Based on Wireless Sensor Networks
M. A. Salam, Deandre Grimes, and Ebrahim Khosravi
Southern University, USA

- SESSION 6-ICWN: SENSOR NETWORKS II**
Chair: Dr. Werner Kurschl, Upper Austria University of Applied Sciences, Austria
July 15, 2008 (Tuesday); 03:40pm - 06:00pm
(LOCATION: Ballroom 3)
- 03:40 - 04:00pm: FREE SLOT
- 04:00 - 04:20pm: Detecting False Alarms Generated by Sensor Networks
Richard Wasniowski
California State University, Carson, California, USA
- 04:20 - 04:40pm: Reliability Challenges and Enhancement Approaches for Pipeline Sensor and Actor Networks
Nader Mohamed, Imad Jawhar, and Khaled Shuaib
United Arab Emirates University, Al Ain, United Arab Emirates
- 04:40 - 05:00pm: The Scalable Polygonal Grid-based Polynomial Pre-Distribution Model in Wireless Sensor Network
Nguyen Thi Thanh Huyen and Eui-Nam Huh
Kyung Hee University, Korea
- 05:00 - 05:20pm: Progressive Content-Sensitive Data Retrieval in Sensor Networks
Bo Yang and Manohar Mareboyana
Bowie State University, USA
- 05:20 - 05:40pm: A MAC Protocols Using Scheduling Base on Hierarchical Structure in Wireless Sensor Networks
Doo-sung Back, Kihyun Pyun, Junhee Cho, Nam-su Kim, and June Yun
Chonbuk National University, Korea
- 05:40 - 06:00pm: Coverage Efficient Clustering Method Based on Time Delay for Wireless Sensor Networks
Ji Gong, Hyuntae Kim, and Gihwan Cho
Chonbuk National University, Korea
- 06:00 - 09:30pm: Tutorials (please see the list of tutorials)**
-

6:45am - 5:00pm: Registration (Second Floor, Conference Lobby: 1-5)

08:00 - 10:20am: During this period, ICWN'08 attendees are encouraged to participate in sessions belonging to PDPTA'08, GCA'08, ICOMP'08, SWWS'08, SAM'08, ESA'08, FECS'08, or CIC'08. These sessions discuss topics that overlap the scope of ICWN'08.

10:20 - 10:40am: BREAK

SESSION 7-ICWN: ROUTING + AD HOC NETWORKS
Chairs: Dr. Chaoyang (Joe) Zhang and Jamie Lawson
University of Southern Mississippi, USA
Lockheed Martin, USA
July 16, 2008 (Wednesday); 10:40am - 11:40am
(LOCATION: Ballroom 3)

10:40 - 11:00am: TCP Performance over Proactive and Reactive Routing Protocols for Mobile Ad Hoc Networks
Shawkat Ali
Central Queensland University, QLD, Australia

11:00 - 11:20am: Performance Comparison of Ad Hoc Routing Protocols: An Implementation Study
Kendall Nygard and Kanwalinder jit Kaur
North Dakota State University, USA

11:20 - 11:40am: Analysis on Mobility and Connectivity for Adaptive Routing Protocol Technique in Ad Hoc Network
Deepak G.C., Ung Heo, Kang Soo You and Jaeho Choi
Jeonju University, Korea; Chonbuk National University, Korea

- SESSION 8-ICWN: MOBILITY MANAGEMENT AND AGENTS**
Chairs: Dr. Wei Ding and Kanwalinder Jit Kaur Gagneja
Austin Peay State University, USA
North Dakota State University, USA
July 16, 2008 (Wednesday); 11:40am - 12:40pm
(LOCATION: Ballroom 3)
- 11:40 - 12:00pm: Heterogeneity in Mobile Computing Environments
Robert Schmohl and Uwe Baumgarten
Technische Universitaet Munchen, Germany
- 12:00 - 12:20pm: Mobility Management Using Fuzzy-Logic Based QoS in MANETs
Sun Jin Oh
Semyung University, Chungbuk, Korea
- 12:20 - 12:40pm: On Mobility of MANETs-Overlaid P2P Rings
Wei Ding and Sumanth Yenduri
University of Southern Mississippi, USA
- 12:40 - 02:00pm: **LUNCH (On Your Own)**
- 02:00 - 03:00pm: **During this period, ICWN'08 attendees are encouraged to participate in sessions belonging to PDPTA'08, GCA'08, ICOMP'08, SWWS'08, SAM'08, ESA'08, FECS'08, or CIC'08. These sessions discuss topics that overlap the scope of ICWN'08.**

**03:00 - 03:40pm: DISCUSSION SESSION C-ICWN (Refreshments will be available)
 July 16, 2008 (Wednesday)
 (LOCATION: Hallways - Ballrooms 1-5)**

- 0. Performance Evaluation of Bi-Directional MIMO Channel Sounding System
 Myung-Don Kim, Heon Kook Kwon, Wonsop Kim, Jae Joon Park and
 Hyun Kyu Chung; Mobile Telecommunication Research Division, Korea
- 0. Modeling of Mean and Variance of Eigenvalues for 2x4 MIMO
 Channel Capacity
 Wonsop Kim, Jae Joon Park, Myung-Don Kim, Hyun Kyu Chung
 Electronics and Telecommunications Research Institute, Korea
- 0. Design and Implementation of Node in Wireless Sensor Network
 F.S. Ayatollahi and S. Alinezhad Chamazcoty
 Sharif University of Technology, Iran
- 0. Survey of Vertical Handoff Models in Heterogeneous Wireless Networks
 B. G. Kim, Hengky Susanto and Hwang S. Lee
 University of Mass. Lowell, USA
- 0. Design of Dynamic Slot Allocation Protocol for Wireless Networks
 Hyunjoong Kang, Meonghun Lee, and Hyun Yoe
 Suncheon National University, Korea
- 0. CB-ABR: A Cluster Based On-Demand Routing Protocol with Load
 Balancing for Ad Hoc Mobile Networks
 Shafinaz Buruhanudeen, Mohamed Othman, Borhanuddin b. Mohd. Ali
 and Mazliza Othman; University Putra Malaysia, Malaysia
- 0. A Self-Organizing System for Regulating Data Flow through
 Highly Bandwidth-Constrained Wireless Sensor Networks
 Dennis Hsu, Richard Dillon, and Jamie Lawson
 Lockheed Martin Corporation, USA
- 0. Sensor Network Security: Elliptic-Curve Cryptography on SunSPOTs
 Jens Mache, Sam Bock, Jimmy Elwell, Dennis Gosnell, Travis Mandel,
 and Jonathan Perry-Houts
 Lewis & Clark College, Portland, Oregon, USA

SESSION 9-ICWN: ANALYSIS AND PERFORMANCE MEASUREMENT

Chair: Dr. Ali Abedi, University of Maine, Orono, USA

July 16, 2008 (Wednesday); 03:40pm - 05:00pm

(LOCATION: Ballroom 3)

- 03:40 - 04:00pm: Complexity Aware Performance Enhancements for Mobile Video Communication
Waqar Zia and Klaus Diepold
Technische Universitat Munchen, Germany
- 04:00 - 04:20pm: A Metric for Robustness in Wireless Mote Communication with Applications in Telemedicine
Kathy J. Liszka, Sudha Bhattarai, and Malinda J. Sever
University of Akron, USA
- 04:20 - 04:40pm: Overview on Ad Hoc networks Localization
Hajar Barani and Mahmoud Fathy
Iran University of Science and Technology, Iran
- 04:40 - 05:00pm: Estimated Traffic Congestion Length by Using Vehicle-to-Vehicle Communication Based on ZigBee
Kobayashi Hideyuki and Sugiura Akihiko
Toyohashi University of Technology, Japan

SESSION 10-ICWN: ALGORITHMS + APPLICATIONS

**Chair: Robert Schmohl, Technische Universitaet Muenchen, Germany
July 16, 2008 (Wednesday); 05:00pm - 06:00pm
(LOCATION: Ballroom 3)**

- 05:00 - 05:20pm: A Framework for Authentic Post-Issuance Program Modification for Multi-Application Smart Cards
Mohammad Mesbah Uddin, Salahuddin Muhammad Salim Zabir,
Yasunobu Nohara and Hiroto Yasuura
Kyushu University, Japan
- 05:20 - 05:40pm: A Trooper Selection Strategy on a Milepost Network
Dana Steil and Xiaoyan Hong
University of Alabama, USA
- 05:40 - 06:00pm: Topology Control Based on a Steiner Tree in Ad Hoc Wireless Networks
Rashid Bin Muhammad
Kent State University, Kent, Ohio, USA
- 06:00 - 09:30pm: Tutorials (please see the list of tutorials)**

6:45am - 5:00pm: Registration (Second Floor, Conference Lobby: 1-5)

SESSION 11-ICWN: SENSOR NETWORKS

Chair: Dr. Ali Abedi, University of Maine, Orono, USA
July 17, 2008 (Thursday); 08:00am - 09:20am
(LOCATION: Ballroom 3)

08:00 - 08:20am: Evaluation of Data Dissemination Methods in Wireless
Sensor Networks
Manjeera Jeedigunta and Xubin He
Tennessee Technological University, USA

08:20 - 08:40am: TDMA Scheduling for Data Gathering in Wireless Sensor Networks
Abdulaziz Barnawi and Roshdy Hafez
Carleton University, Canada

08:40 - 09:00am: A .NET Distributed Framework for Remote Monitoring of Hurricane
Wind Pressures and Wind Speeds using Wireless Sensor Networks
Carlos E. Otero, Ivica Kostanic, Chelakara Subramanian and
Jean-Paul Pinelli; Florida Institute of Technology, USA

09:00 - 09:20am: Detection of Location for Sensor Nodes Using ZigBee in the Gymnasium
Shuuhei Kajiwara, Hideyuki Kobayashi, Akihiko Sugiura, and Nobuo Ezaki
Toyohashi University of Technology, Japan

SESSION 12-ICWN: SECURITY AND HETEROGENEOUS NETWORKS

**Chair: Robert Schmohl, Technische Universitaet Muenchen, Germany
July 17, 2008 (Thursday); 09:20am - 11:20am
(LOCATION: Ballroom 3)**

- 09:20 - 09:40am: Accurate MAC Clock Synchronization Technique for Real-Time Service in Ad Hoc Network
Zheng Wen, Ung Heo, Kang Soo Yoo, and Jaeho Choi
Jeonju University, Korea%Chonbuk National University, Korea
- 09:40 - 10:00am: A New Paradigm of NAV Alteration to Overcome Masked Node Problem in 802.11 MAC Based MANETs
R. Bhakthavathsalam
Supercomputer Education and Research Center, Indian Institute of Science, Bangalore, India
- 10:00 - 10:20am: Improving Security of Real-Time Wireless Networks Through Packet Scheduling
Mohammed Alghamdi
New Mexico Institute of Mining and Technology, New Mexico, USA
- 10:20 - 10:40am: BREAK**
- 10:40 - 11:00am: An Access Point Selection Algorithm for Heterogeneous Stations
Yasuhiro Sagara and Akihiro Fujiwara
Kyushu Institute of Technology, Japan
- 11:00 - 11:20am: FREE SLOT

SESSION 13-ICWN: ROUTING TECHNOLOGIES

**Chair: Mohamed Watfa, American University of Beirut, Lebanon
July 17, 2008 (Thursday); 11:20am - 12:40pm
(LOCATION: Ballroom 3)**

- 11:20 - 11:40am: Routing and Scheduling in Large-Scale Hybrid Network with Heterogeneous Infrastructure
Jing Cao, Zhaoyi Liu, and Wei Wu
State Key Laboratory of Virtual Reality Technology and Systems, Beijing, P. R. China; Beihang University, Beijing, P. R. China
- 11:40 - 12:00pm: SN-MAC: A Cross Layer MAC/Routing Algorithm for High-Throughput and Low-Latency WSNs
Mohamed Khalil Watfa, Samir Salman, and Hovig Denkilikian
American University of Beirut, Lebanon
- 12:00 - 12:20pm: A Hybrid Routing Protocol for Wireless Mesh Networks
Jihad Qaddour
Illinois State University, USA
- 12:20 - 12:40pm: Evaluating the Efficiency of Clustering on Routing and Network Performance
Imen Jemili, Abdelfettah Belghith, Mohamed Mosbah
Universite de la Manouba, Tunisia
- 12:40 - 01:20pm: **LUNCH (On Your Own)**

SESSION 14-ICWN: MOBILITY MANAGEMENT AND AGENTS

**Chair: Manjeera Jeedigunta, Tennessee Technological University, USA
July 17, 2008 (Thursday); 01:20pm - 03:00pm
(LOCATION: Ballroom 3)**

- 01:20 - 01:40pm: An Interference Detection Method for Mobile Relay Stations in Transparent Mode of IEEE 802.16j Mobile Multi-hop Relay Networks
Youn-Soo Kim, Jiwon Yoon, Jin Seok Chae and Hyung Seok Kim
Sejong University, Korea
- 01:40 - 02:00pm: Magrathea: A Mobile Agent- and Sensing Platform
Jukka Perkio, Petri Myllymaki and Peter Boda
University of Helsinki, Finland
- 02:00 - 02:20pm: Quality of Service and Mobility in New Generation Networks
Jesus Hamilton Ortiz and Juan Carlos Lopez
University of Castilla y la Mancha, Spain
- 02:20 - 02:40pm: Measurements, Quality of Service and Efficient Load Balancing Algorithm in Mobile Ad-Hoc Network
Jesus Hamilton Ortiz, Juan Carlos Lopez and Carlos Lucero
University of Castilla y la Mancha, Spain
- 02:40 - 03:00pm: FREE SLOT

03:00 - 03:40pm: **DISCUSSION SESSION D-ICWN (Refreshments will be available)**
July 17, 2008 (Thursday)
(LOCATION: Hallways - Ballrooms 1-5)

- O. A Topology Generator and Evolutionary Routing Algorithm for Random Deployment of Wireless Sensor Networks
Joe-Air Jiang, Cheng-Long Chuang, Chia-Pang Chen, Chwan-Lu Tseng, and En-Cheng Yang
National Taiwan University, Taiwan
- O. Mobile Computing with Scripting Language
Samratvivekanand Omprakash Khanna
CVM and S. P. University, Gujarat, India
- O. Implementation of IEEE 802.15.4 Standard for LR-WPANs and Addressing Some of the Shortcomings of the MAC Layer
Ashish Yadav, Monal Bhoyar, and C. V. Joshi
College of Engineering, Pune(COEP), India
- O. Data Dissemination Protocol Based on Home Agent and Access Node for Mobile Sink in Sensor Network
Hwajung Lim and Heonguil Lee
Kangwon National University, Korea
- O. An Efficient Data Dissemination Technique Based on Squared Trajectory in Sensor Networks
Hwajung Lim and Heonguil Lee; Kangwon National University, Korea

SESSION 15-ICWN: ALGORITHMS + APPLICATIONS

Chair: Manjeera Jeedigunta, Tennessee Technological University, USA
July 17, 2008 (Thursday); 03:40pm - 04:20pm
(LOCATION: Ballroom 3)

03:40 - 04:00pm: Comparison of Iterated Algorithms for the Minimum Energy
Multicast Tree Problem in Wireless Ad Hoc Networks
Manki Min
South Dakota State University, USA

04:00 - 04:20pm: Pull vs. Hybrid: Comparing Scheduling Algorithms for Asymmetric
Time-Constrained Environments
Jesus Fernandez-Conde and Daniel Mozos
Universidad Complutense De Madrid, Spain

- SESSION 16-ICWN: WIFI, BLUETOOTH, RFID AND POWER MANAGEMENT**
Chair: Robert Schmohl, Technische Universitaet Muenchen, Germany
July 17, 2008 (Thursday); 04:20pm - 06:00pm
(LOCATION: Ballroom 3)
- 04:20 - 04:40pm: Behavior of Bluetooth Bridging Nodes within an Adaptive Service Providing Environment
Ulrich Duemichen and Uwe Baumgarten
Technische Universitaet Muenchen, Germany
- 04:40 - 05:00pm: Push-to-talk over Wi-Fi
Carlos Henrique R. de Oliveira, Marcos Guimaraes Castello Branco and Rodolfo de Sousa Costa
Telecommunications Research and Development Center (CPqD)1, Brazil
- 05:00 - 05:20pm: Power-Aware Message Scheduling for Multimedia Wireless Networks
Mohammed Alghamdi
New Mexico Institute of Mining and Technology, New Mexico, USA
- 05:20 - 05:40pm: Minimum Power Strongly Connected Dominating Sets in Wireless Networks
Deying Li, Hongwei Du, Pengjun Wan, Xiaofeng Gao, Zhao Zhang, and Weili Wu
Renmin University, China; City University of Hong Kong, Hong Kong; University of Texas at Dallas, USA
- 05:40 - 06:00pm: FREE SLOT

IKE'08 CONFERENCE SCHEDULE

The 2008 International Conference on Information and Knowledge Engineering

Monte Carlo Resort, Las Vegas, Nevada, July 14-17, 2008

Note 1:

There are a number of other sessions (not listed as part of IKE'08 schedule) that are of significant interest to IKE conference participants (sessions belonging to other joint conferences in this event.) Therefore, you are encouraged to also check the schedules for other joint conferences. In particular, some sessions in ITSL'08, BIOCOMP'08, IPCV'08, SWWS'08, SAM'08, DMIN'08, and EEE'08, discuss topics that are within the scope of IKE; these have been scheduled so that IKE attendees can also participate in them.

Note 2:

Each conference is divided into a number of topical sessions. These sessions are not necessarily scheduled in the same room/location. Therefore, conference attendees are to check the location of the session(s) they wish to attend - The conference room numbers appear in this document.

July 13

03:00 - 09:00pm: REGISTRATION (Second Floor, Conference Lobby; 1-5)

- 6:30am - 5:00pm: Registration (Second Floor, Conference Lobby: 1-5)
- 08:30 - 08:45am: WORLDCOMP'08 Opening Remarks
Prof. Hamid R. Arabnia (General Chair & Coordinator)
University of Georgia, Georgia, USA
(LOCATION: Lance Burton Theater)
- 08:45 - 09:35am: Keynote Lecture 1:
The Parallel Computing Landscape: A Berkeley View 2.0
Prof. David A. Patterson
Pardee Prof. of CS; Director, RAD Lab & Par Lab; Past
President, ACM; Member, National Academy of Engineering;
Member, National Academy of Sciences; Fellow of IEEE, ACM,
& AAAS; University of California at Berkeley.
(LOCATION: Lance Burton Theater)
- 09:40 - 10:25am: Keynote Lecture 2:
Searching in the "Real World"
Prof. Ophir Frieder
The Royden B. Davis, SJ, Chair in Interdisciplinary
Studies at Georgetown University; IITRI Chair Professor
of CS at Illinois Institute of Technology; Director,
Information Retrieval lab; Fellow of IEEE, ACM, and AAAS
(LOCATION: Lance Burton Theater)
- 10:30 - 11:15am: Keynote Lecture 3:
Achieving your Dreams
Anousheh Ansari
CEO, Chairman and Co-founder of Prodea Systems, Inc., USA;
Space Ambassador
(LOCATION: Lance Burton Theater)
- 11:15a - 12:00p: Keynote Lecture 4:
Dimensions in Reconfigurable Computing: A New Wave in
Electronic System Designs
Chris Phillips
Vice President of Engineering at ElementCXI, USA
(LOCATION: Lance Burton Theater)
- 12:00 - 12:40pm: LUNCH (On Your Own)

**12:40 - 01:20pm: DISCUSSION SESSION A-IKE (Refreshments will be available)
July 14 (Monday)
(LOCATION: Hallways - Ballrooms 1-5)**

- O. A Fragile Watermarking Scheme for Image Tamper Detection and Recovery
Shih-Chieh Shie, Shinfeng D. Lin, Long-Tai Chen, and Zong-Lin Yang
National Formosa Univ., Taiwan; National Dong Hwa Univ., Taiwan;
Industrial Technology Research Institute, Taiwan
- O. Knowledge-Based Information Extraction Using Fuzzy String Searching
and Word Sense Disambiguation for IT Product Data-sheets
Sergio G. Jimenez V., Claudia J. Becerra C., Fabio A. Gonzalez O.
National University of Colombia, Colombia

**01:20 - 02:40pm: During this period, IKE'08 attendees are encouraged to participate
in sessions belonging to ITSL'08, BIOCAMP'08, IPCV'08, SWWS'08,
SAM'08, DMIN'08, or EEE'08. These sessions discuss topics
that overlap the scope of IKE'08.**

02:40 - 03:00pm: BREAK

- SESSION 1-IKE: INFORMATION MANAGEMENT + RETRIEVAL + DATABASES**
Chair: Dr. T. K. Prasad, Wright State University, Dayton, Ohio, USA
July 14, 2008 (Monday); 03:00pm - 04:40pm
(LOCATION: Ballroom 6)
- 03:00 - 03:20pm: An Efficient Database for Environmental Monitoring Through Wireless Sensor Network
Trevillian Highter, Jung Hee Kim, Jung Hyoun Kim, and John Kelly
North Carolina A&T State University, USA
- 03:20 - 03:40pm: Bridging the Gap between Lay Language and Medical Terminology
Radja Messai, Michel Simonet, and Mireille Mousseau
Joseph Fourier University, France
- 03:40 - 04:00pm: Query Optimization Techniques for Horizontal View Tables used for Multidimensional Analysis
Sung-Hyun Shin, Yang-Sae Moon, Jinho Kim, Soo-Ahn Lee, and Sang-Wook Kim
Kangwon National University, Korea
- 04:00 - 04:20pm: A Web-Based System for Programming Team Practice Management
Greg Allard and Ali Orooji
University of Central Florida, USA
- 04:20 - 04:40pm: Improving Document Classification Using Anchor Text
Anupam Shukla and Anuj Kumar
Indian Institute of Information Technology and Management, India

- SESSION 2-IKE: DATA MINING AND INFORMATION ENGINEERING**
Chair: Prof. Ray R. Hashemi, Armstrong Atlantic State University, Georgia, USA)
July 14, 2008 (Monday); 04:40pm - 06:00pm
(LOCATION: Ballroom 6)
- 04:40 - 05:00pm:** A Formal Framework for Defining Entity-Based, Data Source Integration
John R. Talburt and Ray Hashemi
University of Arkansas at Little Rock, USA;
Armstrong Atlantic State University, Georgia, USA
- 05:00 - 05:20pm:** The Effects of Ultraviolet Radiations of Germicidal Lamp Versus Arc Welding on Skin in Mice
Mahmood Bahar, Parisa Hajiseyedjavadi, and Azita Bahrami
University of Tarbiat Moalem, Iran;
Armstrong Atlantic State University, USA
- 05:20 - 05:40pm:** Establishing Mobile NFC Payment Systems and Future Prospect
Babak Akhgar, Alberto Savoldelli, Doris Prato, Secondo Montrucchio, Federico Guella, Jawed I. Siddiqi, Fazilatur Rahman, & Lukasz Jopek
Sheffield Hallam University, Sheffield, UK
- 05:40 - 06:00pm:** Leveraging StoLPaN Host Environment for Portable Diagnostic Health-Care Platform
Babak Akhgar, Alberto Savoldelli, Doris Prato, Secondo Montrucchio, Federico Guella, Jawed I. Siddiqi, Fazilatur Rahman, Lukasz Jopek, Sally Atkinson, James Brian, and Mike Pinkerton
Sheffield Hallam Univ., Sheffield, UK & Rotherham NHS Foundation Trust
- 06:00 - 09:00pm: Tutorials (please see the list of tutorials)**
- 09:10 - 11:30pm: CONFERENCE RECEPTION DINNER & BANQUET KEYNOTE - July 14 (Monday)**
High Performance Computing and Computational Intelligence: Link to the Translational Medicine and Personalized Healthcare
Dr. Jack Y. Yang and Dr. Mary Qu Yang
Harvard University, Massachusetts, USA and
National Human Genome Research Institute, NIH, Bethesda, USA
(LOCATION: Ballrooms 1-5)
-

6:45am - 5:00pm: Registration (Second Floor, Conference Lobby: 1-5)

SESSION 3-IKE: ON GAUGING THE PREDICTABILITY AND BEHAVIOR OF DIVERSIFIED NETWORKS BY WAY OF SCIENTIFIC METHODS - AKA, NETWORK SCIENCE
Chair: Dr. Frederick I. Moxley
United States Military Academy, West Point, New York, USA
July 15, 2008 (Tuesday); 08:10am - 10:00am
(LOCATION: Ballroom 6)

08:10 - 08:40am: KEYNOTE:
The Burgeoning Field of Network Science
Frederick I. Moxley
Director of Research & Deputy Director of the Network
Science Center; United States Military Academy, West Point, New York, USA

08:40 - 09:00am: Using Term-Frequency-Inverse-Document Frequency of email to Detect Change in Social Groups
Ian McCulloh, Eric Daimler, and Kathleen M. Carley
Carnegie Mellon University, Pittsburgh, PA, USA

09:00 - 09:20am: Gathering and Studying Email Traffic to Understand Social Networks
Benjamin Ring, Stephen Henderson, and Ian McCulloh
United States Military Academy, West Point, New York, USA
Columbia University, New York, USA

09:20 - 09:40am: Utility Maximizing Networks + ...
Joshua Alfred Lospinoso
Cadet Corps, U.S. Military Academy, West Point, New York, USA

09:40 - 10:00am: The Relationship Between Ecological and Counterinsurgency Networks
Mark D. Drapeau , Peyton C. Hurley, and Robert E. Armstrong
Center for Technology and National Security Policy,
National Defense University, Washington, DC, USA

10:00 - 10:20am: BREAK

- SESSION 4-IKE: DATA MINING AND INFORMATION ENGINEERING**
Chair: Prof. Ray R. Hashemi, Armstrong Atlantic State University, Georgia, USA
July 15, 2008 (Tuesday); 10:20am - 12:00pm
(LOCATION: Ballroom 6)
- 10:20 - 10:40am: Video Data Mining Techniques Applied to Scene Analysis
Mark Smith and Alireza Khotanzad
Southern Methodist University, USA
- 10:40 - 11:00am: A Study on Monitoring Web Page Locating Heuristics
Yang Sok Kim and Byeong Ho Kang
University of Tasmania, Australia
- 11:00 - 11:20am: Standardization of References Using Hidden Markov Model
Kazem Taghva and Swamynathon Sambamurthy
University of Nevada, Las Vegas, USA
- 11:20 - 11:40am: Discovery of Intent Through the Analysis of Visited Sites
Ray R. Hashemi, Azita Bahrani, James LaPlant, & Kenneth J. Thurber
Armstrong Atlantic State University, Georgia, USA;
Architectural Technology Corporation, Minneapolis, USA
- 11:40 - 12:00pm: MOSAICA: A Knowledge Portal for Cultural Heritages
Fazilatur Rahman, Jawed I. Siddiqi, Babak Akhgar,
Laura E. Raileanu, and Nastaran Fatemi
Sheffield Hallam University, Sheffield, United Kingdom

- SESSION 5-IKE: KNOWLEDGE MANAGEMENT, KNOWLEDGE ENGINEERING + DISCOVERY + INFORMATION MINING**
Chairs: Maryam Karimzadehgan and Huanjing Wang
University of Illinois at Urbana-Champaign, USA
Western Kentucky University, USA
July 15, 2008 (Tuesday); 12:00pm - 01:00pm
(LOCATION: Ballroom 6)
- 12:00 - 12:20pm: A Seamless, Context-Oriented Knowledge Management Approach Based on Topic Maps**
Tobias Schmidt, Henning Peuser and Madjid Fathi
Institute of Knowledge Management & Knowledge Based Systems, Germany
- 12:20 - 12:40pm: A Prototype Automated Knowledge Acquisition System for Production Rule Generation**
Thomas M. Gatton, Altan Hacigumus and Mal Rey Lee
National University, USA; ChonBuk National University, Korea
- 12:40 - 01:00pm: Web Data Mining for Predictive Intelligence**
Richard Wasniowski
California State University, Carson, California, USA
- 01:00 - 02:00pm: LUNCH (On Your Own)**
- 02:00 - 03:00pm: During this period, IKE'08 attendees are encouraged to participate in sessions belonging to ITSL'08, BIOCOMP'08, IPCV'08, SWWS'08, SAM'08, DMIN'08, or EEE'08. These sessions discuss topics that overlap the scope of IKE'08.**

03:00 - 03:40pm: **DISCUSSION SESSION B-IKE (Refreshments will be available)**
July 15, 2008 (Tuesday)
(LOCATION: Hallways - Ballrooms 1-5)

- 0. High-Availability Cluster Management Tool for Monitoring and Self-Managing of Cluster DBMS
Hyunjo Lee, Yongki Kim, Youngjin Kim, and Jaewoo Chang
Chonbuk National University, Korea
- 0. User Feedback Based Metasearching Using Rough Set Theory
Rashid Ali and M. M. Sufyan Beg
A. M. U. Aligarh, India; J. M. I., New Delhi, India
- 0. Text-Independent Speaker Identification Based on MAP Channel Compensation and Pitch-dependent Features
Jiqing Han and Rongchun Gao
Harbin Institute of Technology, Harbin, P. R. China
- 0. Solution Plans Based in Experiences
Jose Bernardo Parra Victorino, Raul Morales Carrasco,
and Efren Armando Osorio Ramirez
Estudios de Posgrado del Instituto Tecnologico de Puebla, Mexico
- 0. Optimizing Neural Network Architecture Using Tikhonov Regularization Parameter for Intrusion Detection Systems and Classification of Attacks
Marwa S. Sharawi, Mohammed Sammany, Mohammed El-Beltagy, & Imane Saroit
British University in Egypt, Egypt

- SESSION 6-IKE: TRENDS IN ENTERPRISE INFORMATION SYSTEMS**
Chair: Dr. Wai Gen Yee, Illinois Institute of Technology, Chicago, Illinois, USA
July 15, 2008 (Tuesday); 03:40pm - 05:00pm
(LOCATION: Ballroom 6)
- 03:40 - 04:00pm: Knowledge Retrieval in Financial Domain
Junfeng Qu, Yinglei Song, Hamid R. Arabnia, and Byron Jeff
Clayton State University, Morrow, Georgia, USA;
University of Maryland Eastern Shore, Maryland, USA;
The University of Georgia, Athens, Georgia, USA
- 04:00 - 04:20pm: Enhancing Visualization of Large Topography Data Maps by Reducing Data Access Time
Susan Sakimoto, John McDonald, and Jami Montgomery
DePaul University, Chicago, Illinois, USA;
Notre Dame University, USA
- 04:20 - 04:40pm: A Performance Survey of Modern Commodity Storage Options
Wai Gen Yee
Illinois Institute of Technology, Chicago, Illinois, USA
- 04:40 - 05:00pm: Reproducibility Probability of TREC Evaluations
Eric C. Jensen, Summize, Inc. and
Steve Beitzel, Telcordia Technologies

SESSION 7-IKE: NOVEL APPLICATIONS + ALGORITHMS + DESIGN ISSUES
Chair: Dr. Junfeng Qu, Clayton State University, Georgia, USA
July 15, 2008 (Tuesday); 05:00pm - 06:00pm
(LOCATION: Ballroom 6)

05:00 - 05:20pm: Management Information Systems - A Tool for Efficient Decision Analysis
Jivika Govil, Jivesh Govil, Harkeerat Kaur, and Navkeerat Kaur
Maharshi Dayanand University, India; Cisco Systems Inc., USA;
GGSIIP University, New Delhi, India

05:20 - 05:40pm: An Overview of Data Grid and Grid Computing: The Next
Generation Distributed Computing
Jivika Govil, Jivesh Govil, Harkeerat Kaur, and Navkeerat Kaur
Maharshi Dayanand University, India; Cisco Systems Inc., USA;
GGSIIP University, New Delhi, India

05:40 - 06:00pm: Data Authentication, Authorization and Access Control:
Challenges, Mechanisms and Policies
Jivika Govil, Jivesh Govil, Harkeerat Kaur, and Navkeerat Kaur
Maharshi Dayanand University, India; Cisco Systems Inc., USA;
GGSIIP University, New Delhi, India

06:00 - 09:30pm: Tutorials (please see the list of tutorials)

- 6:45am - 5:00pm: Registration (Second Floor, Conference Lobby: 1-5)**
- 08:00 - 10:00am: During this period, IKE'08 attendees are encouraged to participate in sessions belonging to ITSL'08, BIOCMP'08, IPCV'08, SWWS'08, SAM'08, DMIN'08, or EEE'08. These sessions discuss topics that overlap the scope of IKE'08.**
- 10:00 - 10:20am: BREAK**
- SESSION 8-IKE: INFORMATION MANAGEMENT + RETRIEVAL + DATABASES**
Chairs: Dr. Joan L. Mitchell and Dr. Huanjing Wang
Ricoh|IBM InfoPrint Solutions Company, USA
Western Kentucky University, USA
July 16, 2008 (Wednesday); 10:20am - 12:20pm
(LOCATION: Ballroom 6)
- 10:20 - 10:40am: Expert Finding by Means of Plausible Inferences**
Maryam Karimzadehgan, Geneva G. Belford, and Farhad Oroumchian
University of Illinois at Urbana-Champaign, Urbana, Illinois, USA;
University of Wollongong in Dubai, UAE
- 10:40 - 11:00am: The Effect of Normalization when Recall Really Matters**
April Kontostathis and Scott Kulp
Ursinus College, USA
- 11:00 - 11:20am: An Algebraic Structure for Decompositions of Relational Databases**
Ying Hang Lo and Tony T. Lee
The Chinese University of Hong Kong, Shatin, Hong Kong
- 11:20 - 11:40am: Enabling Federated Access to Information**
Sandra K. Johnson, Joan L. Mitchell, David Ward,
Sharad Mishra, and Benjamin Stoor
IBM, USA
- 11:40 - 12:00pm: A Distributed Blackboard Real-Time DBMS**
Forouzan Rafati-Chamachar and Tae W. Ryu
State University, Fullerton, USA
- 12:00 - 12:20pm: An Experimental Comparison of Five Association Rule Algorithms Using Synthetic and Real-World Datasets**
Moh'd B. Al-Zoubi, Hussam F. Al-shorman and Yousef Jbara
University of Jordan, Jordan; Al-balqa Applied University, Jordan
- 12:20 - 02:00pm: LUNCH (On Your Own)**
- 02:00 - 03:00pm: During this period, IKE'08 attendees are encouraged to participate in sessions belonging to ITSL'08, BIOCMP'08, IPCV'08, SWWS'08, SAM'08, DMIN'08, or EEE'08. These sessions discuss topics that overlap the scope of IKE'08.**

03:00 - 03:40pm: **DISCUSSION SESSION C-IKE (Refreshments will be available)**
July 16, 2008 (Wednesday)
(LOCATION: Hallways - Ballrooms 1-5)

- 0. Improvement of Municipal Solid Waste Management For Domestic Waste of Kathmandu City
Yamuna Shanker Kasaju; Kathmandu University, Nepal
- 0. A Framework for Building a Turkish Lexicon and Knowledge Base
Pinar Onder, Nazife Ozen, Semra Unlu, and Zeynep Orhan
Fatih University, Turkey
- 0. An Object Oriented Dynamic Web Portal Framework - A Case Study
Suresh Kalathur; Boston University, USA

- SESSION 9-IKE: NOVEL APPLICATIONS + ALGORITHMS + DESIGN ISSUES**
Chair: Dr. Junfeng Qu, Clayton State University, Georgia, USA
July 16, 2008 (Wednesday); 03:40pm - 06:00pm
(LOCATION: Ballroom 6)
- 03:40 - 04:00pm: Developing a GIS-Based System for Analyzing Medical
Transportation Activities
Judy Perkins, Matthew Hudson and Yonggao Yang
Prairie View A&M University, USA
- 04:00 - 04:20pm: An Integrated Quality Function Deployment and Fuzzy
Regression-Based Optimization Framework for Selecting
an E-business Software System
C. Okan Ozogul and E. Ertugrul Karsak
HAVELSAN, Turkey; Galatasaray University, Turkey
- 04:20 - 04:40pm: Pervasive Knowledge Reusability for Leisure e-Service Provision
Yuan-Chu Hwang
National United University, Taiwan
- 04:40 - 05:00pm: Categorical Data Transformation Methods for Neural Networks
Huanjing Wang
Western Kentucky University, USA
- 05:00 - 05:20pm: Constructing Pseudo-Intersections to Map Unreliable Domain
Specific Data Items Found in Disjoint Sets
B. D. Gaston
Anautics, Inc., USA
- 05:20 - 05:40pm: Automating File Schema Recognition Via Content-Based Oracles
Reid Phillips, Patrick Benham, Wing-Ning Li, Gordon Beavers,
and Craig Thompson
University of Arkansas, USA
- 05:40 - 06:00pm: A Model-Based Case Adapter for Data Warehouse Design
Seonggyu Kim
Anyang University, Korea
- 06:00 - 09:30pm: Tutorials (please see the list of tutorials)**
-

- 6:45am - 5:00pm: Registration (Second Floor, Conference Lobby: 1-5)**
- 08:00 - 10:00am: During this period, IKE'08 attendees are encouraged to participate in sessions belonging to ITSL'08, BIOCOMP'08, IPCV'08, SWWS'08, SAM'08, DMIN'08, or EEE'08. These sessions discuss topics that overlap the scope of IKE'08.**
- 10:00 - 10:20am: BREAK**
- SESSION 10-IKE: NOVEL APPLICATIONS + ALGORITHMS + DESIGN ISSUES**
Chair: April Kontostathis, Ursinus College, USA
July 17, 2008 (Thursday); 10:20am - 12:20pm
(LOCATION: Ballroom 6)
- 10:20 - 10:40am: Dependence of Binary Associations on Co-occurrence Granularity in News Documents**
 Krishnaprasad Thirunarayan, Trivikram Immaneni, & Mastan Vali Shaik
 Wright State University, Dayton, Ohio, USA
- 10:40 - 11:00am: FREE SLOT**
- 11:00 - 11:20am: Generation Expansion Planning in the Pool Market: A Hybrid GT/DP Model**
 H. A. Shayanfar, A. Saliminia Lahiji, and J. Aghayi
 Iran University of Science and Technology, Tehran, Iran
- 11:20 - 11:40am: Knowledge Based-Quality Control System in Bio-Composite Applications**
 Fazel Ansari and Madjid Fathi
 Inst. of Knowledge Based Systems & Knowledge Management, Germany
- 11:40 - 12:00pm: Using Agent-Based Method to Construct FKMS**
 Hilary Cheng, Yi-Chuan Lu, and Calvin Sheu
 Yuan Ze University, Chung-Li, Taiwan, R.O.C.;
 Shih Hsin University, Taipei, Taiwan, R.O.C.
- 12:00 - 12:20pm: A Modified Text Compression Technique Based on Lempel-Ziv Algorithm**
 Ahmed Musa and Mansour I. Irshid
 Al-Hussein Bin Talal University, Jordan
- 12:20 - 01:00pm: LUNCH (On Your Own)**

SESSION 11-IKE: ONTOLOGIES + SEMANTIC + CLUSTERING + APPLICATIONS

Chairs: B. D. Gaston and Hyontai Sug

Anautics, Inc., USA

Dongseo University, Korea

July 17, 2008 (Thursday); 01:00pm - 01:40pm

(LOCATION: Ballroom 6)

01:00 - 01:20pm: **Ontologies for the Semantic-Based Medical Image Indexing:
An Overview**

Sonia Mhiri, Sylvie Despres, and Ezzeddine Zagrouba

Rene Descartes-Paris V University, Paris, France;

Paris XIII University, Villetaneuse, France;

Tunis El Manar University, Ariana, Tunisia

01:20 - 01:40pm: **Semantic Validity and Design Issues of a Data Model**

Pavani Kolapalli and James Dullea

Villanova University, USA

- SESSION 12-IKE: KNOWLEDGE MANAGEMENT, KNOWLEDGE ENGINEERING + DISCOVERY + INFORMATION MINING**
Chair: Dr. Ahmed Musa, Al-Hussein Bin Talal University, Jordan
July 17, 2008 (Thursday); 01:40pm - 04:40pm
(LOCATION: Ballroom 6)
- 01:40 - 02:00pm: Expressing High-Throughput Data in a Restructurable, Integrated form for Knowledge Extraction
D. Korytina, P. A. Graf, R. King, and W.B. Jones
University of Colorado at Boulder, USA
- 02:00 - 02:20pm: Vijjana: A Pragmatic Model for Collaborative, Self-Organizing, Domain Centric Knowledge Networks
R. Reddy, L. Wang, S. Reddy, S. Devalapalli, G. Sasanka, S. Macha, S. Teja, R. Doppalapudi, and J. Yu
SIPLab, West Virginia University, Morgantown, West Virginia, USA
- 02:20 - 02:40pm: FREE SLOT
- 02:40 - 03:00pm: Data Modeling and Knowledge Management on Financial Time Series Databases
Yi-Chuan Lu, Hilary Cheng, and Wei-Hsiao Wang
Yuan Ze University, Chung-Li, Taiwan, R.O.C.
- 03:00 - 03:20pm: BREAK**
- 03:20 - 03:40pm: FREE SLOT
- 03:40 - 04:00pm: FREE SLOT
- 04:00 - 04:20pm: Fining Association Rules in Large Relations for Possible Normalization
Hyontai Sug
Dongseo University, Korea
- 04:20 - 04:40pm: A Comparison Study Between Generic and Metadata Search Engines in an E-learning Environment
Leyla Zhuhadar, Olfa Nasraoui, and Robert Wyatt
Western Kentucky University, Bowling Green, Kentucky, USA;
University of Louisville, Louisville, Kentucky, USA

- SESSION 13-IKE: KNOWLEDGE MANAGEMENT IN ENVIRONMENTAL SUSTAINABILITY**
Chairs: Prof. Cyrus R. Sabri and Dr. Shahin Keynoush
Virginia Polytechnic Institute and State University, USA and
Shahid Beheshti University, Tehran, Iran
July 17, 2008 (Thursday); 04:40pm - 06:40pm
(LOCATION: Ballroom 6)
- 04:40 - 05:00pm: The Role of Landscape Architecture in a Sustainable Hazard Mitigation
Mehdi Khaledi and Navid Nazhand
Shahid Beheshti University, Tehran, Iran
- 05:00 - 05:20pm: Time to Paradigm Shift: Towards Environmentally Sustainable
Transportation in Greater Tehran Area
Mehri Ahmadi and Naser Moharamnejad
I.A. University, Tehran, Iran
- 05:20 - 05:40pm: Sustainable Process of Design
A Review of a Recent Model of Development in Tehran
Prof. Cyrus R Sabri
- 05:40 - 06:00pm: Environmental Management Techniques in a Sustainable Landscape
Architecture
Javad Seddighi (Hamed Ayali)
I.A. University, Shiraz, Iran
- 06:00 - 06:20pm: FREE SLOT
- 06:20 - 06:40pm: Knowledge Management in a Sustainable Green Infrastructure
Atfeh Ahmadi and Housein Golpasha
University of Tehran, Tehran, Iran;
I.A. University Science and Research Branch, Tehran, Iran

IPCV'08 CONFERENCE SCHEDULE

The 2008 International Conference on Image Processing, Computer Vision, and Pattern Recognition

Monte Carlo Resort, Las Vegas, Nevada, July 14-17, 2008

Note 1:

There are a number of other sessions (not listed as part of IPCV'08 schedule) that are of significant interest to IPCV conference participants (sessions belonging to other joint conferences in this event.) Therefore, you are encouraged to also check the schedules for other joint conferences. In particular, some sessions in ICAI'08, GEM'08, MLMTA'08, MSV'08, CGVR'08, IKE'08, and FECS'08, discuss topics that are within the scope of IPCV; these have been scheduled so that IPCV attendees can also participate in them.

Note 2:

Each conference is divided into a number of topical sessions. These sessions are not necessarily scheduled in the same room/location. Therefore, conference attendees are to check the location of the session(s) they wish to attend - The conference room numbers appear in this document.

July 13

03:00 - 09:00pm: REGISTRATION (Second Floor, Conference Lobby; 1-5)

- 6:30am - 5:00pm: Registration (Second Floor, Conference Lobby: 1-5)
- 08:30 - 08:45am: WORLDCOMP'08 Opening Remarks
Prof. Hamid R. Arabnia (General Chair & Coordinator)
University of Georgia, Georgia, USA
(LOCATION: Lance Burton Theater)
- 08:45 - 09:35am: Keynote Lecture 1:
The Parallel Computing Landscape: A Berkeley View 2.0
Prof. David A. Patterson
Pardee Prof. of CS; Director, RAD Lab & Par Lab; Past
President, ACM; Member, National Academy of Engineering;
Member, National Academy of Sciences; Fellow of IEEE, ACM,
& AAAS; University of California at Berkeley.
(LOCATION: Lance Burton Theater)
- 09:40 - 10:25am: Keynote Lecture 2:
Searching in the "Real World"
Prof. Ophir Frieder
The Royden B. Davis, SJ, Chair in Interdisciplinary
Studies at Georgetown University; IITRI Chair Professor
of CS at Illinois Institute of Technology; Director,
Information Retrieval lab; Fellow of IEEE, ACM, and AAAS
(LOCATION: Lance Burton Theater)
- 10:30 - 11:15am: Keynote Lecture 3:
Achieving your Dreams
Anousheh Ansari
CEO, Chairman and Co-founder of Prodea Systems, Inc., USA;
Space Ambassador
(LOCATION: Lance Burton Theater)
- 11:15a - 12:00p: Keynote Lecture 4:
Dimensions in Reconfigurable Computing: A New Wave in
Electronic System Designs
Chris Phillips
Vice President of Engineering at ElementCXI, USA
(LOCATION: Lance Burton Theater)
- 12:00 - 12:40pm: LUNCH (On Your Own)

12:40 - 01:20pm: **DISCUSSION SESSION A-IPCV (Refreshments will be available)**
July 14, 2008 (Monday)
(LOCATION: Hallways - Ballrooms 1-5)

- 0. Template Matching Algorithm Based on Shape-Varying Object Model in IR Image Sequence
 Jieun Kim, Boo Hwan Lee, and Seokmin Hong
 Agency for Defense Development, Korea
- 0. Image Processing Algorithm for the Part Inspection of the Automobile Using Stereo Vision
 Seok-Min Chae, Mu-Yeon Kim, Su-Young Ha, Young-Choon Kim, Sang-Ho Ahn, Kyu-Ik Sohng, and Kuhn-Il Lee
 Kyungpook National Univ., Korea; Youngdong Univ., Korea
 Inje University, Korea
- 0. Fast Mode Decision Using Variation Feature of Continued Image in H.264/AVC
 Tae-Wuk Bae, Byoung-Ik Kim, Su-Young Ha, Seok-Min Chae, Young-Choon Kim, Sang-Ho Ahn, & Kyu-Ik Sohng
 Kyungpook National Univ., Korea; Youngdong Univ., Korea; Inje University, Korea
- 0. Fast Full Search Disparity Estimation Algorithm for Stereoscopic Images
 Soo-Gie Hong, Jong-Hwa Kim, and Heung-Moon Choi
 Kyungpook National University, Korea
- 0. Natural Scene Text Extraction Based on Shadow-Robust Color Difference
 Jong-Hwa Kim, Sung-il Lee, Jung-Wook Lee, and Heung-Moon Choi
 Kyungpook National University, Korea
- 0. Chromatic Adaptation Model for Mixed Adaptation Conditions
 Jin-Keun Seok, Sung-Hak Lee, In-Ho Song, and Kyu-Ik Sohng
 Kyungpook National University, Korea
- 0. Quantitative Parameter of Non Linear Tone Compression for HDR Color Reproduction
 Jae-Hoon Jang, Sung-Hak Lee, and Kyu-Ik Sohng
 Kyungpook National University, Korea
- 0. A Novel Defect Inspection Method for the TFT-LCD Image Based on Human Visual System
 Se-Yun Kim, P Tae-Eun Song, P Jong-Hwan Kim, and Kil-Houm Park
 Kyungpook National University, Korea

SESSION 1-IPCV: DATA HIDING + IMAGE COPYRIGHT

**Chair: Prof. Hyongsuk Kim, Chonbuk National University, Korea
July 14, 2008 (Monday); 01:20pm - 02:00pm
(LOCATION: Ballroom 7)**

01:20 - 01:40pm: A New Image Transform
Hedley Morris and Imad El-Muhi
Claremont Graduate University, California, USA

01:40 - 02:00pm: Perceptual Masking Video Watermarking in 3D-RDWT Domain
Yonghui Wang, Suxia Cui, Jian-ao Lian, and Cajetan M. Akujuobi
Prairie View A&M University, USA

- SESSION 2-IPCV: BIOMETRIC SYSTEMS**
Chair: Prof. Hyongsuk Kim, Chonbuk National University, Korea
July 14, 2008 (Monday); 02:00pm - 03:00pm
(LOCATION: Ballroom 7)
- 02:00 - 02:20pm:** An Overview of Iris and Retina Scans and their Fusion in a Biometric System
Michael Sadowitz, Shahram Latifi, and David Walker
University of Nevada, Las Vegas, Nevada, USA
- 02:20 - 02:40pm:** Effective Algorithm for Fingerprint Enhancement in Poor Images
JuCheng Yang and DongSun Park
Chonbuk National University, Korea
- 02:40 - 03:00pm:** Combining Normalised Voice Features for use in Efficient Template - Free Biometric Security System
Joshua A. Atah
University of Kent, USA
- 03:00 - 03:20pm: BREAK**
- 03:20 - 06:00pm:** During this period, IPCV'08 attendees are encouraged to participate in sessions belonging to ICAI'08, GEM'08, MLMTA'08, MSV'08, CGVR'08, IKE'08, or FECS'08. These sessions discuss topics that overlap the scope of IPCV'08.
- 06:00 - 09:00pm: Tutorials (please see the list of tutorials)**
- 09:10 - 11:30pm: CONFERENCE RECEPTION DINNER & BANQUET KEYNOTE - July 14 (Monday)**
High Performance Computing and Computational Intelligence: Link to the Translational Medicine and Personalized Healthcare
Dr. Jack Y. Yang and Dr. Mary Qu Yang
Harvard University, Massachusetts, USA and
National Human Genome Research Institute, NIH, Bethesda, USA
(LOCATION: Ballrooms 1-5)

6:45am - 5:00pm: Registration (Second Floor, Conference Lobby: 1-5)

SESSION 3-IPCV: SEGMENTATION + FEATURE EXTRACTION + REGISTRATION + EDGE DETECTION
Chair: Omer M. Soysal, Louisiana State University, USA
July 15, 2008 (Tuesday); 08:00am - 09:20am
(LOCATION: Ballroom 7)

08:00 - 08:20am: An Objective Evaluation of the Mean Shift-Based Image Segmentation Algorithm
Tao Xu and Iker Gondra
St. Francis Xavier University, Canada

08:20 - 08:40am: A Hybrid Registration Approach for Matching Genomic Structures in Multimodal Microscopic Images of Living Cells
Sambit Bhattacharya, Raj Acharya, Artem Pliss, Kishore S. Malyavantham, & Ronald Berezney
Fayetteville State University, North Carolina, USA;
The Pennsylvania State University, University Park, PA, USA;
State University of New York at Buffalo, New York, USA

08:40 - 09:00am: Texture-Based PCA for Classifying Contents in Document Image
Bo-Ram Kim and Wook-Hyun Kim
Yeungnam University, Korea

09:00 - 09:20am: Stationary Wavelet Transform and Kernel Logistic Regression for Color Texture Classification
Asongu L. Tambo and Xiyi Hang
California State University, USA

- SESSION 4-IPCV: FACE RECOGNITION, DETECTION, AND RELATED ISSUES**
Chair: Prof. Victor-Emil Neagoe, Polytechnic University of Bucharest, Romania
July 15, 2008 (Tuesday); 09:20am - 10:40am
(LOCATION: Ballroom 7)
- 09:20 - 09:40am: On-Line Boosting Learning for Hand Tracking and Recognition
Nguyen Dang Binh, Thuy Thi Nguyen, and Horst Bischof
Graz University of Technology, Graz, Austria
- 09:40 - 10:00am: Neonatal Facial Pain Detection Using NNSOA and LSVM
Sheryl Brahnam, Loris Nanni, and Randall Sexton
Missouri State University, Springfield, Missouri, USA;
CNR, Universita di Bologna, Bologna, Italy
- 10:00 - 10:20am: Face Detection and Recognition Using Geometrical Features
Gi Yeon Park, Jung Hyoun Kim, John Kelly, and Jung Hee Kim
North Carolina A&T State University, USA
- 10:20 - 10:40am: FREE SLOT
- 10:40 - 11:00am: BREAK**
- 11:00 - 12:00pm: During this period, IPCV'08 attendees are encouraged to participate in sessions belonging to ICAI'08, GEM'08, MLMTA'08, MSV'08, CGVR'08, IKE'08, or FECS'08. These sessions discuss topics that overlap the scope of IPCV'08.**
- 12:00 - 01:00pm: LUNCH (On Your Own)**

- SESSION 5-IPCV: SEGMENTATION + FEATURE EXTRACTION + REGISTRATION + EDGE DETECTION**
Chairs: Omer M. Soysal and Dr. Yong Wei
Louisiana State University, USA
North Georgia College and State University, USA
July 15, 2008 (Tuesday); 01:00pm - 02:20pm
(LOCATION: Ballroom 7)
- 01:00 - 01:20pm: Vegetation Identification Based on Satellite Imagery
Vamsi K. R. Mantena, Ramu Pedada, Srinivas Jakkula, Yuzhong Shen
and Jiang Li
Old Dominion University, USA
- 01:20 - 01:40pm: Local Reconstruction for Three Dimensional Terahertz Imaging
Using a CW Quantum Cascade Laser
X. X. Yin, B. W.-H. Ng, J. A. Zeitler, K. L. Nguyen, L. Gladden,
D. Abbott
University of Adelaide, Australia
- 01:40 - 02:00pm: Binary-Output Weighted Median Filter for Binary Signals
Ramu Pedada, Yuzhong Shen, Jiang Li, and Kenneth E. Barner
Old Dominion University, USA; University of Delaware, USA
- 02:00 - 02:20pm: Object-Based Building Change Detection Using Images and CAD Data
Zhen Liu and Ziyang Zhao
Beijing Normal University, Beijing, P. R. China

SESSION 6-IPCV: FACE RECOGNITION, DETECTION, AND RELATED ISSUES I
Chairs: Dr. Yong Wei and Dr. Dan Popa
North Georgia College and State University, USA
The University of Texas at Arlington, USA
July 15, 2008 (Tuesday); 02:20pm - 03:00pm
(LOCATION: Ballroom 7)

02:20 - 02:40pm: Analysis Of Pavement Condition Data Employing Principal
Component Analysis And Sensor Fusion Techniques
Krithika Rajan, Dwight D.Day and Balasubramaniam Natarajan
Kansas State University, USA

02:40 - 03:00pm: Higher Ordered Statistics-Based Bipolarity Measure for
Detecting Pedestrian Crossing from Visual Signals
V. R. Kotha, J. S. Shaik, and M. Yeasin
University of Memphis, TN, USA;
Washington University in St. Louis, MO, USA

03:00 - 03:40pm: **DISCUSSION SESSION B-IPCV (Refreshments will be available)**
July 15, 2008 (Tuesday)
(LOCATION: Hallways - Ballrooms 1-5)

- 0. Effective and Efficient Retrieval Integrating Heterogeneous Databases for Textile Image Retrieval
Kyoung-Mi Lee and Yu-Jin Lee
Duksung Women's University, Seoul, Korea
- 0. Visual Computing of Attributes of Geometric Solids Using Color Queuing Theory and its Engineering Applications
M. N. Rao, G. Vinoth Kumar, M. Dinesh Selvam, R. Humaira Thasneem, and S. Sujatha
St. Josephs College of Engineering and Technology, South India
- 0. Digital Image Cytometry for 3D Nuclear Feature Analysis in Volumetric Data
Hyun-Ju Choi, Tae-Yun Kim, and Heung-Kook Choi
School of Medicine, Pusan National University, Korea;
Inje University, Gimhae, Korea
- 0. 3D Object Recognition Based on an Enhanced Independent Component Analysis
Keun-Chang Kwak; Chosun University, Gwangju, Korea
- 0. Automatic Control of a Camera Signal for Monitoring Systems
Jin-Tae Kim, Jeong-Su Oh, and Andrew R. Willis
Hanseu University, Korea; Pukyong National University, Korea;
University of North Carolina at Charlotte, USA
- 0. Dynamic Silhouette-Based Motion Estimation and its Application to Movement Education of Young Children
Kyoung-Mi Lee and Hey-Jeong Kim
Duksung Women's University, Seoul, Korea

SESSION 7-IPCV: FACE RECOGNITION, DETECTION, AND RELATED ISSUES II

Chairs: Dr. Mohammed Yeasin and W. A. Heeschen

University of Memphis, USA

Dow, USA

July 15, 2008 (Tuesday); 03:30pm - 04:20pm

(LOCATION: Ballroom 7)

03:40 - 04:00pm: Teacher Tracking System Using Particle Filter

Guang Zheng and Shunichiro OE

The University of Tokushima, Japan

04:00 - 04:20pm: QVision, a Development Framework for Real-Time Computer Vision
and Image Processing Research

A. L. Rodriguez, P. E. Lopez-de-Teruel, A. Ruiz, G. Garcia-Mateos,
and L. Fernandez

Universidad de Murcia, Murcia, Spain

- SESSION 8-IPCV: NOVEL APPLICATIONS + ALGORITHMS**
Chair: Dr. Dan Popa, The University of Texas at Arlington, USA
July 15, 2008 (Tuesday); 04:20pm - 06:00pm
(LOCATION: Ballroom 7)
- 04:20 - 04:40pm: Offline Signature Verification System Using Fuzzy Logic
Meena Chinniah
Avinashilingam University For Women, India
- 04:40 - 05:00pm: Simultaneous Visual Tracking and Pose Estimation with Applications to Robotic Actors
Jartuwat Rajruangrabin, Pritpal Dang, Dan O. Popa, Frank L. Lewis, and Harry E. Stephanou
University of Texas at Arlington, Arlington, Texas, USA
- 05:00 - 05:20pm: Simultaneous Visual Tracking and Pose Estimation with Applications to Robotic Actors
Jartuwat Rajruangrabin, Pritpal Dang, Dan O. Popa, Frank L. Lewis, and Harry E. Stephanou
University of Texas at Arlington, Texas, USA
- 05:20 - 05:40pm: Content Based Retrieval System for Archaeological Images
Akshay Asthana, Ranjan Dutta, Anshul Jain, Deepak Gupta, and Sanjay Goel
Jaypee Institute of Information Technology Univ. (JIITU), India
- 05:40 - 06:00pm: Circularity Test and Circularity Measure for Digital Curves
Tristan Roussillon, Laure Tougne, and Isabelle Sivignon
Universite de Lyon, Bron, France;
Universite de Lyon, CNRS, Villeurbanne, France
- 06:00 - 09:30pm: Tutorials (please see the list of tutorials)**
-

6:45am - 5:00pm: Registration (Second Floor, Conference Lobby: 1-5)

SESSION 9-IPCV: RECOGNITION TECHNIQUES

Chairs: Dr. Yuzhong Shen and Omer M. Soysal
Old Dominion University, USA
Louisiana State University, USA
July 16, 2008 (Wednesday); 08:00am - 10:40am
(LOCATION: Ballroom 7)

- 08:00 - 08:20am: Seasonal Adaptation of Vegetation Color in Satellite Images
 Srinivas Jakkula, Vamsi K. R. Mantena, Ramu Pedada,
 Yuzhong Shen, and Jiang Li
 Old Dominion University, USA
- 08:20 - 08:40am: Online Arabic Character Recognition for Handheld Devices
 Khaled Al-Ghoneim and Abdulrahman Alarifi
 Technical & Vocational Training Corporation, Riyadh, Saudi Arabia;
 King Saud University, Riyadh, Saudi Arabia
- 08:40 - 09:00am: A New Spectral Feature for Shape Comparison
 Omer M. Soysal, Jianhua Chen, and Helmut Schneider
 Louisiana State University, Louisiana, Baton Rouge, USA
- 09:00 - 09:20am: Decorrelation of the Color Space, Feature/Decision Fusion,
 and Concurrent Neural Classifiers for Color Pattern Recognition
 Victor-Emil Neagoe
 Polytechnic University of Bucharest, Romania
- 09:20 - 09:40am: Speech Recognition System of Arabic Digits Based on A
 Telephony Arabic Corpus
 Yousef Ajami Alotaibi, Mansour Alghamdi, and Fahad Alotaiby
 King Saud University, Saudi Arabia
- 09:40 - 10:00am: Performance Comparison of Laplacian-Based Features
 Mohamed A. Khabou, Mohamed B. H. Rhouma and Lotfi Hermi
 University of West Florida, USA
- 10:00 - 10:20am: Brain Tumor Detection in MRI Images
 S. Rahimi, M. Zargham, and N. Mogharreban
 Southern Illinois University Carbondale, Illinois, USA
- 10:20 - 10:40am: A Novel Wavelet Fusion Method for Contrast Correction and
 Visibility Enhancement of Color Images
 M. Wilscy and Jisha John
 University of Kerala, India
- 10:40 - 11:00am: BREAK**
- 11:00 - 12:20pm: During this period, IPCV'08 attendees are encouraged to participate
 in sessions belonging to ICAI'08, GEM'08, MLMTA'08, MSV'08,
 CGVR'08, IKE'08, or FECS'08. These sessions discuss topics
 that overlap the scope of IPCV'08.**
- 12:20 - 01:20pm: LUNCH (On Your Own)**

SESSION 10-IPCV: VIDEO + MULTIMEDIA

Chairs: Dr. Mohammed Yeasin and W. A. Heeschen
University of Memphis, USA
Dow, USA

July 16, 2008 (Wednesday); 01:20pm - 03:00pm
(LOCATION: Ballroom 7)

01:20 - 01:40pm: Multiple-Choice Multi-Dimensional Knapsack Problem-Based
Video Personalization

Yong Wei and Suchendra M. Bhandarkar
North Georgia College and State University, USA;
The University of Georgia, USA

01:40 - 02:00pm: Rate Control with Adaptive Initial Quantization Parameter
Prediction Algorithm for H.264/AVC

Soon-young Kwon and Sang-heon Lee
Daegu Gyeongbuk Institute of Science and Technology (DGIST), Daegu, Korea

02:00 - 02:20pm: FREE SLOT

02:20 - 02:40pm: FREE SLOT

02:40 - 03:00pm: FREE SLOT

**03:00 - 03:40pm: DISCUSSION SESSION C-IPCV (Refreshments will be available)
 July 16, 2008 (Wednesday)
 (LOCATION: Hallways - Ballrooms 1-5)**

- 0. An Adaptive Noise Filtering Algorithm Based on the Maximum Noise Fraction
 Rhonda D. Phillips, Jingwei Zhang, Layne T. Watson, Christine E. Blinn, and Randolph H. Wynne
 Virginia Polytechnic Institute and State Univ., Virginia, USA
- 0. A Modified Mixture of MLP Experts for Face Recognition
 Nina Taheri Makhsoos, Alireza Hajiany, Reza Ebrahimpour, and Ghodrat Sepidnam
 Ferdowsi University, Iran; Shahid Rajaei University, Iran
- 0. Linear Pose Estimation for Computer Vision
 K. Krishnamoorthy
 Dayananda Sagar College of Engineering, India
- 0. Cooperative System for Metric Spatial Data Gathering and Processing in Real Time
 Jan Stankovic and Pavel Dergel
 VSB-Technical University of Ostrava, Czech Republic
- 0. Shot Boundary Detection Based on Mutual Information and Canny Edge Detector
 Zhao Huan and Li Xiuhuan
 Hunan University, China
- 0. A Pollution Classification Algorithm Using Remote Sensing Images as Input
 E. A. Yfantis
 University of Nevada, USA
- 0. Challenges for Image Analysis in Chemical Industry Research
 W. A. Heeschen, B. C. Dems, M. A. Mangnus, S. Costeux, and F. O. Kotoye
- 0. An Adaptive Line Segmentation Algorithm (ALSA) for Arabic
 Yousef Elarian and Sabri A. Mahmoud
 King Fahd University of Petroleum & Minerals, Dhahran, Saudi Arabia
- 0. FGPA Implementation for Preprocessing of JPEG2000
 Wei Pi, Jucheng Yang, and DongSun Park
 Chonbuk National University, Korea

SESSION 11-IPCV: IMAGE COMPRESSION METHODS

Chairs: Theodore Kilgore and Meena Chinniah
Auburn University, USA
Avinashilingam University for Women, India
July 16, 2008 (Wednesday); 03:40pm - 06:00pm
(LOCATION: Ballroom 7)

- 03:40 - 04:00pm: Hierarchical Minimum Spanning Trees for Lossy Image Set Compression
Anthony Schmieder, Howard Cheng, Barry Gergel, and Xiaobo Li
University of Lethbridge, Alberta, Canada;
University of Alberta, Canada
- 04:00 - 04:20pm: Performance Study of Discrete Tchebichef Transform Based MPEG Video Codec
Chetan M. Bokariya and Jane Dong
California State University, Los Angeles, USA
- 04:20 - 04:40pm: A Study of Prediction Measures for Lossy Image Set Compression
Barry Gergel, Anthony Schmieder, Xiaobo Li, and Howard Cheng
University of Lethbridge, Alberta, Canada;
University of Alberta, Canada
- 04:40 - 05:00pm: Energy Efficiency of Data Compression with Wavelets
Savithra Eratne, Sebastian Puthenpurayil, and Eugene John
University of Texas at San Antonio, San Antonio, Texas, USA;
University of Maryland, College Park, Maryland, USA
- 05:00 - 05:20pm: FREE SLOT
- 05:20 - 05:40pm: A Modified No Search Algorithm for Fractal Image Compression
Mehdi Salarian, Babak Mohamadnia, and Jalil Rasekhi
University of Allameh Mohaddes Nuri
- 05:40 - 06:00pm: FREE SLOT
- 06:00 - 09:30pm: Tutorials (please see the list of tutorials)**
-

6:45am - 5:00pm: Registration (Second Floor, Conference Lobby: 1-5)

SESSION 12-IPCV: NOVEL APPLICATIONS + ALGORITHMS

**Chair: Dr. Charlie Obimbo, University of Guelph, Canada
July 17, 2008 (Thursday); 08:00am - 12:00pm
(LOCATION: Ballroom 7)**

08:00 - 08:20am: Tracing Branched Curvilinear Structures with a Novel Adaptive Local PCA Algorithm

Liya Wang, Edgar P. Spalding, and Amir H. Assadi
University of Wisconsin, USA

08:20 - 08:40am: Localization for Mobile Robot Navigation Using Cell-Coded Color Landmark in Infinite Space

Hongxin Chen, Hyongsuk Kim, and Shi Wang
Chonbuk National Univ, Korea

08:40 - 09:00am: Some Aspects of Interval-Valued and Intuitionistic Fuzzy Mathematical Morphology

M. Nachtegaele, P. Sussner, T. Melange, and E. E. Kerre
Ghent University, Gent, Belgium;
State University of Campinas, Brazil

09:00 - 09:20am: FREE SLOT

09:20 - 09:40am: Depth Field Computation Using Perspective Projections on Various Geometrical Projection Planes

M. N. Rao, Y. Priyadarshini, S. Dharanya, M. Saranya, and N. C. Partheeban
St. Josephs College of Engineering and Technology, South India

09:40 - 10:00am: Switched Multi stage Vector Quantization of Narrowband Speech Signals

M. Madhavi Latha, P. Siddaiah, M. Satya Sai Ram
K. L. College of Engineering, India

10:00 - 10:20am: Application of Wrapping and Unwrapping Phase Algorithms to Fringe Projection Images

A. Serrano Trujillo and A. Nava-Vegaa and L. Salas
Facultad de Ciencias Quimicas e Ingenieria, UABC, Mexico

10:20 - 10:40am: BREAK

10:40 - 11:00am: Texture Image Segmentation Using Adaptive Gray Level Co-Occurrence Probabilities

Yao-Hong Tsai
Hsuan Chuang University, Taiwan

11:00 - 11:20am: Fusion of Multispectral and Panchromatic Images Using Nonsampled Contourlet Transform

Jiji C.V. and Ravi Krishnan Unni
College of Engineering Trivandrum, India

11:20 - 11:40am: A Practical Bayer Demosaicing Algorithm for Gphoto

Theodore Kilgore
Auburn University, USA

11:40 - 12:00pm: FREE SLOT

12:00 - 12:40pm: LUNCH (On Your Own)

SESSION 13-IPCV: SURVEILLANCE + MONITORING + INSPECTION + ENCRYPTION METHODS
Chair: Dr. Sambit Bhattacharya, Fayetteville State University, USA
July 17, 2008 (Thursday); 12:40pm - 01:20pm
(LOCATION: Ballroom 7)

12:40 - 01:00pm: Fast and Active Video-Based Surveillance System for Remote
Monitoring of Events
M. Yeasin and M. F. Ahmed
University of Memphis, TN, USA

01:00 - 01:20pm: Oblivious Watermarking Based on Fast Fourier Transform Using Encryption
Saba Riaz, M. Younus Javed, and M. Almas Anjum
National University of Sciences & Technology (NUST), Pakistan

SESSION 14-IPCV: MOTION ESTIMATION + TARGET/OBJECT TRACKING
Chairs: Mehran Ebrahimi and Dr. Sambit Bhattacharya
University of Waterloo, Canada
Fayetteville State University, USA
July 17, 2008 (Thursday); 01:20pm - 03:00pm
(LOCATION: Ballroom 7)

01:20 - 01:40pm: Multi-Frame Super-Resolution with No Explicit Motion Estimation
Mehran Ebrahimi and Edward R. Vrscay
University of Waterloo, Canada

01:40 - 02:00pm: Improved Particle Filter Gaussian Process Dynamical Model
for Multitarget Tracking
Jing Wang, Hong Man, and Yafeng Yin
Stevens Institute of Technology, USA

02:00 - 02:20pm: A Memory-Efficient Parallel Architecture for Motion Estimation
with Subpixel Resolution
Sungchan Park, Intae Na, and Hong Jeong
Pohang University of Science and Technology, South Korea

02:20 - 02:40pm: FREE SLOT

02:40 - 03:00pm: FREE SLOT

**03:00 - 03:40pm: DISCUSSION SESSION D-IPCV (Refreshments will be available)
 July 17, 2008 (Thursday)
 (LOCATION: Hallways - Ballrooms 1-5)**

- 0. Development of Image Test Simulator for Strip Image Reconstruction Algorithm
 Woong-Sik Kim; Konyang University, Korea
- 0. Color Histogram Methods for CBIR
 Reshma S Ravi and A N Nandakumar; DSCE, India
- 0. Automatic Classification of Satellite Images For Weather Monitoring
 Ramya S. Gowda and Samiksha Shukla
 Alliance Business Academy, India
- 0. Color-Based Motion Segmentation and Object Tracking
 Ali R. Vahdat and Mohammad Rahmati
 Amirkabir University of Technology, Iran
- 0. Content Based Image Retrieval System Using SOM and Feature Extraction
 M. Sundaresan and T. Tharani
 Bharathiar University, India
- 0. Adult Contents Filtering Using DTW Algorithm
 Jungik Cho and Yillbyung Lee
 Yonsei University, Korea
- 0. Person Re-identification Based on Track Matching Across Disjoint Camera Views
 Ali R. Vahdat and Mohammad Rahmati
 Amirkabir University of Technology, Iran
- 0. Using the HC for Shape Representation and Description
 Charlie Obimbo and Yasser Ebrahim
 University of Guelph, Canada
- 0. Vanishing Point Architectural Image Retrieval
 Kelly Breed and Eun-Young Elaine Kang
 California State University, USA
- 0. An Adaptive Line Segmentation Algorithm (ALSA) for Arabic
 Yousef Elarian and Sabri A. Mahmoud
 King Fahd University of Petroleum & Minerals, Dhahran, Saudi Arabia

SESSION 15-IPCV: NOVEL APPLICATIONS + ALGORITHMS

Chair: Prof. Ron Marsh

University of North Dakota, Grand Forks, North Dakota, USA

July 17, 2008 (Thursday); 03:40pm - 06:00pm

(LOCATION: Ballroom 7)

03:40 - 04:00pm: Image-Based Pornography Detection
Rigan Ap-apid
De La Salle University, Philippines

04:00 - 04:20pm: Quincunx Interpolating Wavelets
Baiqiao Deng
Columbus State Univerity, USA

04:20 - 04:40pm: A Study of Wavelets-Based Image Representations and Their Effectiveness
Minh Viet Le, Phu Dung Le, and Bala Srinivasan
Monash University, Australia

04:40 - 05:00pm: Application of Sparse Sampling to Accelerate the Hough Transform
Stephen Hawley
Chief Architect, Atalasoftware, Inc., USA

05:00 - 05:20pm: FREE SLOT

05:20 - 05:40pm: FREE SLOT

05:40 - 06:00pm: FREE SLOT

ITSL'08 CONFERENCE SCHEDULE

The 2008 International Conference on Information Theory and Statistical Learning

Monte Carlo Resort, Las Vegas, Nevada, July 14-17, 2008

Note 1:

There are a number of other sessions (not listed as part of ITSL'08 schedule) that are of significant interest to ITSL conference participants (sessions belonging to other joint conferences in this event.) Therefore, you are encouraged to also check the schedules for other joint conferences. In particular, some sessions in ICAI'08, MLMTA'08, IPCV'08, SWWS'08, SAM'08, DMIN'08, IKE'08, FECS'08, and FCS'08, discuss topics that are within the scope of ITSL; these have been scheduled so that ITSL attendees can also participate in them.

Note 2:

Each conference is divided into a number of topical sessions. These sessions are not necessarily scheduled in the same room/location. Therefore, conference attendees are to check the location of the session(s) they wish to attend - The conference room numbers appear in this document.

July 13

03:00 - 09:00pm: REGISTRATION (Second Floor, Conference Lobby; 1-5)

- 6:30am - 5:00pm: Registration (Second Floor, Conference Lobby: 1-5)
- 08:30 - 08:45am: **WORLDCOMP'08 Opening Remarks**
Prof. Hamid R. Arabnia (General Chair & Coordinator)
University of Georgia, Georgia, USA
(LOCATION: Lance Burton Theater)
- 08:45 - 09:35am: **Keynote Lecture 1:**
The Parallel Computing Landscape: A Berkeley View 2.0
Prof. David A. Patterson
Pardee Prof. of CS; Director, RAD Lab & Par Lab; Past
President, ACM; Member, National Academy of Engineering;
Member, National Academy of Sciences; Fellow of IEEE, ACM,
& AAAS; University of California at Berkeley.
(LOCATION: Lance Burton Theater)
- 09:40 - 10:25am: **Keynote Lecture 2:**
Searching in the "Real World"
Prof. Ophir Frieder
The Royden B. Davis, SJ, Chair in Interdisciplinary
Studies at Georgetown University; IITRI Chair Professor
of CS at Illinois Institute of Technology; Director,
Information Retrieval lab; Fellow of IEEE, ACM, and AAAS
(LOCATION: Lance Burton Theater)
- 10:30 - 11:15am: **Keynote Lecture 3:**
Achieving your Dreams
Anousheh Ansari
CEO, Chairman and Co-founder of Prodea Systems, Inc., USA;
Space Ambassador
(LOCATION: Lance Burton Theater)
- 11:15a - 12:00p: **Keynote Lecture 4:**
**Dimensions in Reconfigurable Computing: A New Wave in
Electronic System Designs**
Chris Phillips
Vice President of Engineering at ElementCXI, USA
(LOCATION: Lance Burton Theater)
- 12:00 - 01:20pm: LUNCH (On Your Own)
- 01:20 - 03:20pm: During this period, ITSL'08 attendees are encouraged to participate in sessions belonging to ICAI'08, MLMTA'08, IPCV'08, SWWS'08, SAM'08, DMIN'08, IKE'08, FECS'08, or FCS'08. These sessions discuss topics that overlap the scope of ITSL'08.

**SESSION 1-ITSL: INFORMATION THEORETIC LEARNING + CLUSTERING ALGORITHMS (Chair: TBA)
July 14, 2008 (Monday); 03:20pm - 06:00pm
(LOCATION: Titanium Room)**

- 03:20 - 03:40pm: A Model of the Distribution of the Distances of Alike Elements in Dialogical Communication
Alexander Mehler
Bielefeld University, Germany
- 03:40 - 04:00pm: Information Geometry of Contrastive Divergence
Shotaro Akaho
Neuroscience Research Institute, Japan
- 04:00 - 04:20pm: Clustering on a Subspace of Exponential Family Using Variational Bayes Method
Kazuho Watanabe
University of Tokyo, Japan
- 04:20 - 04:40pm: On the Multinomial Stochastic Complexity and its Connection to the Birthday Problem
Tommi Mononen
Helsinki Institute for Information Technology, Finland
- 04:40 - 05:00pm: A Randomized Complexity-Theoretic Model of Bio-Inspired Mobile Epidemics via Close Contact
Zhen Cao, Jiejun Kong and Mario Gerla
University of California, Los Angeles, California, USA
- 05:00 - 05:20pm: The Advantage of Robust Measure for Mining Multivariate Outliers
Dyah Erny Herwindiati
Tarumanagara University, Jakarta, Indonesia
- 05:20 - 05:40pm: A Diagnostic of Influential Cases Based on the Information Complexity Criteria in Mixed Models
Junfeng Shang
Bowling Green State University, Bowling Green, Ohio, USA
- 05:40 - 06:00pm: An Empirical Comparison of NML Clustering Algorithms
Petri Kontkanen
Helsinki Institute for Information Technology, Finland
- 06:00 - 09:00pm: Tutorials (please see the list of tutorials)**
- 09:10 - 11:30pm: CONFERENCE RECEPTION DINNER & BANQUET KEYNOTE - July 14 (Monday)
High Performance Computing and Computational Intelligence: Link to the Translational Medicine and Personalized Healthcare
Dr. Jack Y. Yang and Dr. Mary Qu Yang
Harvard University, Massachusetts, USA and
National Human Genome Research Institute, NIH, Bethesda, USA
(LOCATION: Ballrooms 1-5)**
-

6:45am - 5:00pm: Registration (Second Floor, Conference Lobby: 1-5)

08:00a - 03:00p: During this period, ITSL'08 attendees are encouraged to participate in sessions belonging to ICAI'08, MLMTA'08, IPCV'08, SWWS'08, SAM'08, DMIN'08, IKE'08, FECS'08, or FCS'08. These sessions discuss topics that overlap the scope of ITSL'08.

03:00 - 03:40pm: DISCUSSION SESSION and Posters (Refreshments will be available)
July 15, 2008 (Tuesday)
(LOCATION: Hallways - Ballrooms 1-5)

- O. Numerical Studies of MHD Flow of a Third Grade Fluid Between Concentric Cylinders with Slip Conditions and Hall Effect
M. A. Rana, Rashid Qamar, A. M. Siddiqui, and S. Bhatti
PINSTECH, Pakistan
- O. A Statistical Approach for Speaker Identification on VoIP Networks
J. J. Ranade and S.K. Ghosh; Indian Institute of Technology, India
- O. A Filtering Algorithm for the Intensity of a Cox Process
Using Karhunen-Loeve Type Expansions
Rosa M. Fernandez-Alcala, Jesus Navarro-Moreno, & Juan C. Ruiz-Molina
UJAEN, Spain

- SESSION 2-ITSL: INFORMATION-THEORETIC ASPECTS OF INTEGER-POINT ENUMERATION IN POLYHEDRA**
Chair: TBA
July 15, 2008 (Tuesday); 03:40pm - 06:00pm
(LOCATION: Titanium Room)
- 03:40 - 04:00pm: An Implementation of the Barvinok-Woods Integer Projection Algorithm
M. Koepe, S. Verdoolaeye, and K. M. Woods
Universitaet Magdeburg, Magdeburg, Germany
Universiteit Leiden, The Netherlands;
Oberlin College, Oberlin, Ohio, USA
- 04:00 - 04:20pm: Algorithms for Weighted Counting Over Parametric Polytopes: A Survey and a Practical Comparison
S. Verdoolaeye and M. Bruynooghe
Katholieke Universiteit Leuven, Belgium
- 04:20 - 04:40pm: Holes in Semigroups and Their Applications to the Two-Way Common Diagonal Effect Model
A. Takemura, P. Thomas, and R. Yoshida
University of Tokyo, Tokyo, Japan;
University of Kentucky, Lexington, Kentucky, USA
- 04:40 - 05:00pm: Simple Polytopes Arising from Finite Graphs
H. Ohsugi and T. Hibi
Rikkyo University, Toshima, Tokyo, Japan;
Osaka University, Toyonaka, Osaka, Japan
- 05:00 - 05:20pm: Weight Multiplicities for $so_5(C)$
T. Bliem
Universitaet zu Koeln, Koeln, Germany
- 05:20 - 05:40pm: Coefficient Functions of the Ehrhart Quasi-Polynomials of Rational Polygons
T. B. McAllister
Eindhoven University of Technology, Eindhoven, The Netherlands
- 05:40 - 06:00pm: Ehrhart Functions with Analytic Weight
B. Chen and W. Wang
Hong Kong University of Science and Technology, Hong Kong
- 06:00 - 09:30pm: Tutorials (please see the list of tutorials)**
-

6:45am - 5:00pm: Registration (Second Floor, Conference Lobby: 1-5)

08:00a - 04:00p: During this period, ITSL'08 attendees are encouraged to participate in sessions belonging to ICAI'08, MLMTA'08, IPCV'08, SWWS'08, SAM'08, DMIN'08, IKE'08, FECS'08, or FCS'08. These sessions discuss topics that overlap the scope of ITSL'08.

SESSION 3-ITSL: QUANTUM INFORMATION: THEORY AND APPLICATION (Chair: TBA)
 July 16, 2008 (Wednesday); 04:00pm - 05:40pm
 (LOCATION: Titanium Room)

04:00 - 04:20pm: The Communication Index of Graphs
 Sascha Delitzscher, Andreas Krueger, and Tyll Krueger
 University of Bielefeld, Germany

04:20 - 04:40pm: Resolution Limits of Time and Space Correlated Single Photon Counting
 Franz-Josef Schmitt
 Technical University of Berlin, Germany

04:40 - 05:00pm: Quantum Bit Strings and Prefix-Free Hilbert Spaces
 Markus Mueller and Caroline Rogers
 Technical University of Berlin, Germany;
 University of Warwick, United Kingdom

05:00 - 05:20pm: Chained Typical Subspaces - a Quantum Version of Breiman's Theorem
 Igor Bjelakovic, Tyll Krueger, Rainer Siegmund-Schultze, and Arleta Szkoła
 Technical University of Berlin, Germany

05:20 - 05:40pm: FREE SLOT

06:00 - 09:30pm: Tutorials (please see the list of tutorials)

08:00a - 05:00p: During this period, ITSL'08 attendees are encouraged to participate in sessions belonging to ICAI'08, MLMTA'08, IPCV'08, SWWS'08, SAM'08, DMIN'08, IKE'08, FECS'08, or FCS'08. These sessions discuss topics that overlap the scope of ITSL'08.

MLMTA'08 CONFERENCE SCHEDULE

The 2008 International Conference on Machine Learning; Models, Technologies and Applications

Monte Carlo Resort, Las Vegas, Nevada, July 14-17, 2008

Note 1:

There are a number of other sessions (not listed as part of MLMTA'08 schedule) that are of significant interest to MLMTA conference participants (sessions belonging to other joint conferences in this event.) Therefore, you are encouraged to also check the schedules for other joint conferences. In particular, some sessions in ICAI'08, GEM'08, BIOCOMP'08, IPCV'08, SWS'08, SAM'08, DMIN'08, IKE'08, and EEE'08, discuss topics that are within the scope of MLMTA; these have been scheduled so that MLMTA attendees can also participate in them.

Note 2:

Each conference is divided into a number of topical sessions. These sessions are not necessarily scheduled in the same room/location. Therefore, conference attendees are to check the location of the session(s) they wish to attend - The conference room numbers appear in this document.

July 13

03:00 - 09:00pm: REGISTRATION (Second Floor, Conference Lobby; 1-5)

- 6:30am - 5:00pm: Registration (Second Floor, Conference Lobby: 1-5)
- 08:30 - 08:45am: **WORLDCOMP'08 Opening Remarks**
Prof. Hamid R. Arabnia (General Chair & Coordinator)
University of Georgia, Georgia, USA
(LOCATION: Lance Burton Theater)
- 08:45 - 09:35am: **Keynote Lecture 1:**
The Parallel Computing Landscape: A Berkeley View 2.0
Prof. David A. Patterson
Pardee Prof. of CS; Director, RAD Lab & Par Lab; Past
President, ACM; Member, National Academy of Engineering;
Member, National Academy of Sciences; Fellow of IEEE, ACM,
& AAAS; University of California at Berkeley.
(LOCATION: Lance Burton Theater)
- 09:40 - 10:25am: **Keynote Lecture 2:**
Searching in the "Real World"
Prof. Ophir Frieder
The Royden B. Davis, SJ, Chair in Interdisciplinary
Studies at Georgetown University; IITRI Chair Professor
of CS at Illinois Institute of Technology; Director,
Information Retrieval lab; Fellow of IEEE, ACM, and AAAS
(LOCATION: Lance Burton Theater)
- 10:30 - 11:15am: **Keynote Lecture 3:**
Achieving your Dreams
Anousheh Ansari
CEO, Chairman and Co-founder of Prodea Systems, Inc., USA;
Space Ambassador
(LOCATION: Lance Burton Theater)
- 11:15a - 12:00p: **Keynote Lecture 4:**
**Dimensions in Reconfigurable Computing: A New Wave in
Electronic System Designs**
Chris Phillips
Vice President of Engineering at ElementCXI, USA
(LOCATION: Lance Burton Theater)
- 12:00 - 02:00pm: LUNCH (On Your Own)
- 02:00 - 06:00pm: During this period, MLMTA'08 attendees are encouraged to participate in sessions belonging to ICAI'08, GEM'08, BIOCOMP'08, IPCV'08, SWWS'08, SAM'08, DMIN'08, IKE'08, and EEE'08. These sessions discuss topics that overlap the scope of MLMTA'08.
- 06:00 - 09:00pm: Tutorials (please see the list of tutorials)
- 09:10 - 11:30pm: **CONFERENCE RECEPTION DINNER & BANQUET KEYNOTE - July 14 (Monday)**
**High Performance Computing and Computational Intelligence: Link
to the Translational Medicine and Personalized Healthcare**
Dr. Jack Y. Yang and Dr. Mary Qu Yang
Harvard University, Massachusetts, USA and
National Human Genome Research Institute, NIH, Bethesda, USA
(LOCATION: Ballrooms 1-5)
-

6:45am - 5:00pm: Registration (Second Floor, Conference Lobby: 1-5)

08:00a - 12:00p: During this period, MLMTA'08 attendees are encouraged to participate in sessions belonging to ICAI'08, GEM'08, BIOCOMP'08, IPCV'08, SWWS'08, SAM'08, DMIN'08, IKE'08, and EEE'08. These sessions discuss topics that overlap the scope of MLMTA'08.

12:00 - 01:00pm: LUNCH (On Your Own)

SESSION 1-MLMTA: MACHINE LEARNING; MODELS, TECHNOLOGIES AND APPLICATIONS
Chair: Omid Motlagh, University Putra Malaysia (UPM), Malaysia
July 15, 2008 (Tuesday); 01:00pm - 03:00pm
(LOCATION: Silver Room)

01:00 - 01:20pm: A Biologically Inspired Model of Spiking Neurons Suitable for Analog IC Design
Mircea Hulea
Technical University Gh. Asachi of Iasi, Romania

01:20 - 01:40pm: Prediction of Human Liver Microsomal Stability with Machine Learning
Yojiro Sakiyama, Hitomi Yuki and Teruki Honma
Pfizer Global Research, UK

01:40 - 02:00pm: Path Normalcy Analysis Using Nearest Neighbor Outlier Detection
David Luper, Muthukumaran Chandrasekaran, Khaled Rasheed, and Hamid R. Arabnia
University of Georgia, Athens, Georgia, USA

02:00 - 02:20pm: Temporal Difference Learning for Nondeterministic Board Games
Glenn Matthews and Khaled Rasheed
University of Georgia, USA

02:20 - 02:40pm: Incremental Navigation Map Enhancement with GPS Tracks from Heterogeneous Sources
Michal Vesely, Clemens Novak, Andreas Reh, and Herwig Mayr
Upper Austria University of Applied Sciences, Austria

02:40 - 03:00pm: Using Model Trees for Online Monitoring of Human-Computer Call Dialogues
Woosung Kim and Jayant M. Naik
Convergys Corporation, Cincinnati, Ohio, USA

**03:00 - 03:40pm: DISCUSSION SESSION A-MLMTA (Refreshments will be available)
July 15, 2008 (Tuesday)
(LOCATION: Hallways - Ballrooms 1-5)**

- O. Enhancing the Quality of Noisy Training Data Using a Genetic Algorithm and Prototype Selection
Boseon Byeon and Khaled Rasheed
University of Georgia, USA
- O. Speeding Up Large Scale Distance Computations
Andras Farago
University of Texas at Dallas, USA
- O. Improvement of Learning Rate for RBF Neural Networks in a Helicopter Sound Identification System Introducing Two-Phase OSD Learning Method
Gh. A. Montazer, Reza Sabzevari and Fatemeh Ghorbani
Tarbiat Modares University, Iran

03:40 - 06:00pm: During this period, MLMTA'08 attendees are encouraged to participate in sessions belonging to ICAI'08, GEM'08, BIOCOMP'08, IPCV'08, SWWS'08, SAM'08, DMIN'08, IKE'08, and EEE'08. These sessions discuss topics that overlap the scope of MLMTA'08.

06:00 - 09:30pm: Tutorials (please see the list of tutorials)

6:45am - 5:00pm: Registration (Second Floor, Conference Lobby: 1-5)

08:00a - 03:00p: During this period, MLMTA'08 attendees are encouraged to participate in sessions belonging to ICAI'08, GEM'08, BIOCAMP'08, IPCV'08, SWWS'08, SAM'08, DMIN'08, IKE'08, and EEE'08. These sessions discuss topics that overlap the scope of MLMTA'08.

03:00 - 03:40pm: DISCUSSION SESSION B-MLMTA (Refreshments will be available)
July 16, 2008 (Wednesday)
(LOCATION: Hallways - Ballrooms 1-5)

- 0. Parallel Cascaded SVM with K-Means Clustering Based Data Redistribution
Vaibhav Sharma and A. K. Sarje; Indian Institute of Technology, India
- 0. Recognition and Execution of some Languages Words(Kurdish, Arabic ,and English)
Mardin A Anwar and Leena Habeeb Loka; Salahaddin University

- SESSION 2-MLMTA: MACHINE LEARNING; MODELS, TECHNOLOGIES AND APPLICATIONS**
Chairs: Dr. Tang Sai Hong and Dr. Aman Kumar
Universiti Putra Malaysia, Malaysia
BCL Technologies, Santa Clara, California, USA
July 16, 2008 (Wednesday); 03:40pm - 06:00pm
(LOCATION: Silver Room)
- 03:40 - 04:00pm: A Statistical Travel Time Model for Miniload Automated Storage and Retrieval Systems with Open-Rack Structure
M. R. Vasili, S. H. Tang, S. Sulaiman, and N. Ismail
University Putra Malaysia, Malaysia
- 04:00 - 04:20pm: Evaluation of Bulk Tank Milk Quality Based on Fuzzy Logic
Myungsoo Cha, SungTaek Park, Taioun Kim, and Bhushan M. Jayarao
Kyungsoo University, Nam-Gu, Busan, Korea;
Penn State University, University Park, PA, USA
- 04:20 - 04:40pm: Robust Classification of Objects Using a Sparse Detector Sensor
M. Yeasin, D. J. Russomanno, M. S. Sorower, M. Smith, & J. S. Shaik
University of Memphis, Memphis, TN, USA;
Washington University in St. Louis, Missouri, USA
- 04:40 - 05:00pm: A Goal-Oriented Approach to Mobile Robot Way-finding in Environments with Local Dead-Ends
Omid R. E. Motlagh, Tang Sai Hong, and Napsiah Ismail
University Putra Malaysia, Selangor, Malaysia
- 05:00 - 05:20pm: A Decision Tree-Based Method for Selection of Input-Output Factors in DEA
Sungmook Lim
Korea University, Chungnam, Republic of Korea
- 05:20 - 05:40pm: Monitoring Vertical Acceleration of Railway Wagon Using Machine Learning Technique
G. M. Shafiullah, Scott Simson, Adam Thompson, Peter J. Wolfs, and Shawkat Ali
Central Queensland University, Rockhampton, Australia
- 05:40 - 06:00pm: A Branch and Bound Algorithm for Multiple Instance Classification
O. Erhun Kundakcioglu and Panos M. Pardalos
University of Florida, Gainesville, Florida, USA

SESSION 3-MLMTA: INTELLIGENT LINGUISTIC TECHNOLOGIES - ILINTEC'08
Chair: Dr. Elena Kozerenko, Russian Academy of Sciences, Russia
July 16, 2008 (Wednesday); 06:00pm - 07:00pm
(LOCATION: Silver Room)

06:00 - 06:20pm: Linguistic Processor "Semantix" for Knowledge Extraction
from Natural Texts in Russia and English
Igor P. Kuznetsov
Russian Academy of Sciences, Synergistic Systems Ltd., Moscow, Russia

06:20 - 06:40pm: A Hybrid Model for Language Structures Disambiguation
in Machine Translation
Elena B. Kozerenko
Russian Academy of Sciences, Moscow, Russia

06:40 - 07:00pm: Speech Recognition Based Iraqi Arabic Learning Tool
Aman Kumar
BCL Technologies, Santa Clara, California, USA

06:00 - 09:30pm: Tutorials (please see the list of tutorials)

08:00a - 05:00p: During this period, MLMTA'08 attendees are encouraged to participate in sessions belonging to ICAI'08, GEM'08, BIOCOMP'08, IPCV'08, SWWS'08, SAM'08, DMIN'08, IKE'08, and EEE'08. These sessions discuss topics that overlap the scope of MLMTA'08.

MSV'08 CONFERENCE SCHEDULE

The 2008 International Conference on Modeling, Simulation and Visualization Methods

Monte Carlo Resort, Las Vegas, Nevada, July 14-17, 2008

Note 1:

There are a number of other sessions (not listed as part of MSV'08 schedule) that are of significant interest to MSV conference participants (sessions belonging to other joint conferences in this event.) Therefore, you are encouraged to also check the schedules for other joint conferences. In particular, some sessions in PDPTA'08, CSC'08, IPCV'08, CGVR'08, and FECS'08, discuss topics that are within the scope of MSV; these have been scheduled so that MSV attendees can also participate in them.

Note 2:

Each conference is divided into a number of topical sessions. These sessions are not necessarily scheduled in the same room/location. Therefore, conference attendees are to check the location of the session(s) they wish to attend - The conference room numbers appear in this document.

July 13

03:00 - 09:00pm: REGISTRATION (Second Floor, Conference Lobby; 1-5)

- 6:30am - 5:00pm: Registration (Second Floor, Conference Lobby: 1-5)
- 08:30 - 08:45am: WORLDCOMP'08 Opening Remarks
Prof. Hamid R. Arabnia (General Chair & Coordinator)
University of Georgia, Georgia, USA
(LOCATION: Lance Burton Theater)
- 08:45 - 09:35am: Keynote Lecture 1:
The Parallel Computing Landscape: A Berkeley View 2.0
Prof. David A. Patterson
Pardee Prof. of CS; Director, RAD Lab & Par Lab; Past
President, ACM; Member, National Academy of Engineering;
Member, National Academy of Sciences; Fellow of IEEE, ACM,
& AAAS; University of California at Berkeley.
(LOCATION: Lance Burton Theater)
- 09:40 - 10:25am: Keynote Lecture 2:
Searching in the "Real World"
Prof. Ophir Frieder
The Royden B. Davis, SJ, Chair in Interdisciplinary
Studies at Georgetown University; IITRI Chair Professor
of CS at Illinois Institute of Technology; Director,
Information Retrieval lab; Fellow of IEEE, ACM, and AAAS
(LOCATION: Lance Burton Theater)
- 10:30 - 11:15am: Keynote Lecture 3:
Achieving your Dreams
Anousheh Ansari
CEO, Chairman and Co-founder of Prodea Systems, Inc., USA;
Space Ambassador
(LOCATION: Lance Burton Theater)
- 11:15a - 12:00p: Keynote Lecture 4:
Dimensions in Reconfigurable Computing: A New Wave in
Electronic System Designs
Chris Phillips
Vice President of Engineering at ElementCXI, USA
(LOCATION: Lance Burton Theater)
- 12:00 - 12:40pm: LUNCH (On Your Own)

12:40 - 01:20pm: **DISCUSSION SESSION A-MSV (Refreshments will be available)**
July 14, 2008 (Monday)
(LOCATION: Hallways - Ballrooms 1-5)

- O. A MIP Model for IC Final Testing Order Selection Problem
C. Y. Huang, A. H. I. Lee and T. Y. Chang
Ching Yun University, China
- O. Implementation of FlexRay CC and BG Protocols with Application
to a Robot System
Yi-Nan Xu, Hyun-Soo Kang, Yong-Eun Kim, Kyung-Ju Cho, & Jin-Gyun Chung
Chonbuk National University, Korea

SESSION 1-MSV: MODELING

Chair: Dr. Leon Deligiannidis, Wentworth Institute of Technology, USA
July 14, 2008 (Monday); 01:20pm - 02:20pm
(LOCATION: Ballroom 3)

01:20 - 01:40pm: Modeling the Spread of Mobile Malware
Juil C. Martin, Legand L. Burge III, Alfred Marcus &
Alicia N. Washington
Howard University, USA

01:40 - 02:00pm: Modeling and Simulation of Human Lumbar Spine
Ahmed Sameh and Ayman Kassem
The American University in Cairo, Egypt;
King Fahd University of Petroleum and Minerals, Saudi Arabia

02:00 - 02:20pm: A Model for the Economic Costs of Biological Invasion
Claudia M. Dias, Simone A. Delphim, Luiz Bevilacqua, and
Augusto C. N. R. Galeao
National Laboratory of Scientific Computing - LNCC, Brazil;
Federal University of ABC, Brazil

- SESSION 2-MSV: TOOLS, TECHNIQUES AND IMPLEMENTATIONS**
Chair: Dr. Leon Deligiannidis, Wentworth Institute of Technology, USA
July 14, 2008 (Monday); 02:20pm - 03:20pm
(LOCATION: Ballroom 3)
- 02:20 - 02:40pm: Multiprocessor Simulation Using Communicating Sequential Processes**
Pranav Vaidya and Jaehwan John Lee
IUPUI, USA
- 02:40 - 03:00pm: ORUIES: Object Oriented User Interface for Embedded Systems**
Hytham S. Mousa and William A. Stapleton
The University of Alabama, Tuscaloosa, Alabama, USA;
Texas State University, San Marcos, Texas, USA
- 03:00 - 03:20pm: Cascade Vulnerability Problem Simulator Tool**
Servin Christian and Ceberio Martine
UTEP, USA
- 03:20 - 03:40pm: BREAK**
- 03:40 - 06:00pm: During this period, MSV'08 attendees are encouraged to participate in sessions belonging to PDPTA'08, CSC'08, IPCV'08, CGVR'08, or FECS'08. These sessions discuss topics that overlap the scope of MSV'08.**
- 06:00 - 09:00pm: Tutorials (please see the list of tutorials)**
- 09:10 - 11:30pm: CONFERENCE RECEPTION DINNER & BANQUET KEYNOTE - July 14 (Monday)**
High Performance Computing and Computational Intelligence: Link to the Translational Medicine and Personalized Healthcare
Dr. Jack Y. Yang and Dr. Mary Qu Yang
Harvard University, Massachusetts, USA and
National Human Genome Research Institute, NIH, Bethesda, USA
(LOCATION: Ballrooms 1-5)
-

6:45am - 5:00pm: Registration (Second Floor, Conference Lobby: 1-5)

08:00 - 10:20am: During this period, MSV'08 attendees are encouraged to participate in sessions belonging to PDPTA'08, CSC'08, IPCV'08, CGVR'08, or FECS'08. These sessions discuss topics that overlap the scope of MSV'08.

10:20 - 10:40am: BREAK

SESSION 3-MSV: VISUALIZATION

**Chair: Dr. H-P. Bischof, Rochester Institute of Technology, USA
July 15, 2008 (Tuesday); 10:40am - 12:40pm
(LOCATION: Ballroom 3)**

10:40 - 11:00am: Visualization Done Right!
Hans-Peter Bischof
Rochester Institute of Technology, USA

11:00 - 11:20am: Visualizing and Interacting with Multiple Simulations Using the Multichronic Tree
Francois Rioux, Francois Bernier, and Denis Laurendeau
Laval University, Quebec, Canada;
Defence R&D, Valcartier, Quebec, Canada

11:20 - 11:40am: Flame Visualisation Based on Computation Fluid Dynamics (CFD) Results
P. G. Boisvert, A. J. Majeski, A. M. Runstedtler, & E. H. Chui
CANMET Energy Technology Centre, Canada

11:40 - 12:00pm: Viewer Perception of Superellipsoid-Based Accelerometer Visualization Techniques
Brian J. d'Auriol, Tuyen Nguyen, Thuy Pham, Sungyoung Lee, and Young-Koo Lee
Kyung Hee University, Korea

12:00 - 12:20pm: Visualization of Defibrillation Simulation Using Multiple Transthoracic Electrodes
Joseph Qualls, David J. Russomanno, Amy de Jongh Curry, and Deepika Konakanchi
The University of Memphis, USA

12:20 - 12:40pm: Deficiencies in the Internet Mass Media Visualization of U.S. Election Results
Soon Tee Teoh
San Jose State University, San Jose, California, USA

12:40 - 02:00pm: LUNCH (On Your Own)

02:00 - 03:00pm: During this period, MSV'08 attendees are encouraged to participate in sessions belonging to PDPTA'08, CSC'08, IPCV'08, CGVR'08, or FECS'08. These sessions discuss topics that overlap the scope of MSV'08.

03:00 - 03:40pm: **DISCUSSION SESSION B-MSV (Refreshments will be available)**
July 15, 2008 (Tuesday)
(LOCATION: Hallways - Ballrooms 1-5)

- 0. Process Analyzer: A Discrete Event Analysis Tool for the Non-Expert Simulation User
Thomas G. Stauder and Martin C. Haas; The Boeing Company, USA
- 0. Computer-Aided Response Surface Modeling Integrated with Parameter Optimization by a Genetic Algorithm for Biofuel Production
Ramkrishna Sen
Indian Institute of Technology, Kharagpur, India
- 0. Effects of Valid Source-Destination Edges for Node-Disjoint Multipaths on AD HOC Networks
SeokHo Jung, Bokman Lee, Elmurod Talipov, MyunWhan Ahn, & Chonggun Kim
Yeungnam University, Korea
- 0. Dynamic Simulation Research of Drum Level Sloshing of HRSG
Cao Xiao-ling, Yang Wei-hong, and Su Ming
Shanghai Jiaotong University, China

- SESSION 4-MSV: THEORY AND ALGORITHMS + NUMERICAL METHODS AND EVALUATION**
Chairs: Dr. George Dimitoglou and Dr. Ramkrishna Sen
Hood College, USA
Indian Institute of Technology (IIT), Kharagpur, India
July 15, 2008 (Tuesday); 03:40pm - 06:00pm
(LOCATION: Ballroom 1)
- 03:40 - 04:00pm: An Approximate Mathematical Model for Analysis of Underwater Acoustic Sensor Networks
Ziping Liu, W. Chan, and S. Shih
Southeast Missouri State University, Cape Girardeau, Missouri, USA
- 04:00 - 04:20pm: Numerical Simulation and Adaptive Algorithms of Hybrid Type for Integral Equations Solution
D. G. Arsenjev, V. M. Ivanov, and M. L. Korenevsky
St. Petersburg State Polytechnical University, Russia
- 04:20 - 04:40pm: Generating Network Models Using the S-Metric
Isabel Beichl and Brian Cloteaux
National Institute of Standards and Technology, USA
- 04:40 - 05:00pm: A Probabilistic Risk Estimation with Multiple Regression Dependent Dummy Variable Method Using Logit Transformation
N. J. Park, K.M. George, and N. Park
Oklahoma State University, USA
- 05:00 - 05:20pm: FREE SLOT
- 05:20 - 05:40pm: Determining Rotational Conformations of Substituted DNA Sequences on the Nucleosome Core Particle
Levi Pierce and Terry Clark
University of Kansas, USA
- 05:40 - 06:00pm: Epidemic Thresholds via Computer Algebra
Jeyver Andre Morales Taborda
EAFIT University, Medellin, Colombia
- 06:00 - 09:30pm: Tutorials (please see the list of tutorials)**
-

6:45am - 5:00pm: Registration (Second Floor, Conference Lobby: 1-5)

SESSION 5-MSV: SIMULATIONS

**Chair: Dr. H-P. Bischof, Rochester Institute of Technology, USA
July 16, 2008 (Wednesday); 08:00am - 10:40am
(LOCATION: Ballroom 3)**

- 08:00 - 08:20am: Simulation of an Optical Tracking Control System of a Differentially-Driven Wheeled Mobile Robot
L. Yeo, S. John, and J. Mo
RMIT University, Bundoora, Victoria, Australia
- 08:20 - 08:40am: Simulation and Modeling of a Virtual Library for Navigation and Evacuation
Harish Vadali and Sharad Sharma
Bowie State University, USA
- 08:40 - 09:00am: Interactive Fluid Simulation and Its Remote Steering Framework with Visual and Haptic Feedback
Kensuke Hashimoto, Shin-ichiro Mori, Akinori Yamaguchi, Makoto Komatsubara and Shinji Tomita
University of Fukui, Japan
- 09:00 - 09:20am: Swarm Shopping - The Simulation of Herd Behavior
Zeeshan-ul-hassan Usmani, Binish Bhagwanee, and Aisha Azhar
Florida Institute of Technology, Melbourne, Florida, USA;
Florida State University, Tallahassee, Florida, USA
- 09:20 - 09:40am: A Simulator for Training Operators of Fossil-Fuel Power Plants with an HMI Based on a Multi-Window System
Jose Tavira-Mondragon, Luis Jimenez-Fraustro, Guillermo Romero-Jimenez
Instituto de Investigaciones Electricas, Mexico
- 09:40 - 10:00am: Computer Assisted Simulation Model of Renal Tumor Cryosurgery
Chih-Wei Chen, Hong-Sen Kou, Hsueh-Erh Liu, Cheng-Keng Chuang, and Li-Jen Wang
Tatung University, Taiwan
- 10:00 - 10:20am: Networked Parallel Simulation of Transmission Grid
Jinming Ge, Deok Nam, and Khalil Habash
Wilberforce University, USA
- 10:20 - 10:40am: FREE SLOT
- 10:40 - 11:40am: **During this period, MSV'08 attendees are encouraged to participate in sessions belonging to PDPTA'08, CSC'08, IPCV'08, CGVR'08, or FECS'08. These sessions discuss topics that overlap the scope of MSV'08.**
- 11:40a - 12:40p: LUNCH (On Your Own)

SESSION 6-MSV: VISUALIZATION

**Chair: Dr. Leon Deligiannidis, Wentworth Institute of Technology, USA
July 16, 2008 (Wednesday); 12:40pm - 01:20pm
(LOCATION: Ballroom 3)**

12:40 - 01:00pm: Modelling and Visualizing the Cahn-Hilliard-Cook Equation
K. A. Hawick and D. P. Playne
Massey University, New Zealand

01:00 - 01:20pm: Children Unintentional Injury Visualization System Based on
Behavior Model and Injury Data
Koji Kitamura, Yoshifumi Nishida, Yoichi Motomura, & Hiroshi Mizoguchi
National Institute of Advanced Industrial Science & Technology,
Tokyo, Japan; Tokyo University of Science, Chiba, Japan

SESSION 7-MSV: APPLICATIONS

Chair: Dr. Leon Deligiannidis, Wentworth Institute of Technology, USA
July 16, 2008 (Wednesday); 01:20pm - 03:00pm
(LOCATION: Ballroom 3)

01:20 - 01:40pm: FREE SLOT

01:40 - 02:00pm: Aided Plan and Optimization of Road Routing in Cooperative
Multi-Transportation System
Guofeng Qin, Qiyang Li, and Xiuying Deng
Tongji University, Shanghai, P. R. China

02:00 - 02:20pm: SystemVerilog Maximum Performance Maneuvers
Ronald W. Mehler
California State University Northridge, USA

02:20 - 02:40pm: Bodygraphic Information System: Application to Injury Surveillance
Toshiki Tsuboi, Yoshifumi Nishida, Yoichi Motomura,
Masaaki Mochimaru, Makiko Kouchi, Tatsuhiro Yamanaka,
& Hiroshi Mizoguchi
Tokyo University of Science, Japan

02:40 - 03:00pm: Data Missing and Make-Up Work Studies over a PIDn
Networked Control System
Lanzhi Teng and Peng Wen
University of Southern Queensland, Toowoomba, Australia

**03:00 - 03:40pm: DISCUSSION SESSION C-MSV (Refreshments will be available)
July 16, 2008 (Wednesday)
(LOCATION: Hallways - Ballrooms 1-5)**

- 0. Modelling and Visualization of the Traffic System with Multi-Agent System and GIS
Pavel Dergel and Petr Fuks
VSB Technical University of Ostrava, Czech Republic
- 0. Numerical Simulation of Heat Transfer Through a Membrane Heat Exchanger
Mohamed Jomaa Safi and Kais Charfi
Mechanique-Energetique, Tunisia
- 0. Fuzzy and Neurofuzzy Techniques for Crack Detection in Armor Plates
Harpreet Singh, Arati M., and Adam Mustapha
Wayne State University, USA
- 0. MyUniverse: Cosmology Simulation System Modeling the Discovery of the Content of the Universe
Rone Kwei Lim, Derek Wells, Dallim Park, Milan Mijic, Tony Longson, and Eun-Young Elaine Kang
California State University, USA

03:40 - 06:00pm: During this period, MSV'08 attendees are encouraged to participate in sessions belonging to PDPTA'08, CSC'08, IPCV'08, CGVR'08, or FECS'08. These sessions discuss topics that overlap the scope of MSV'08.

06:00 - 09:30pm: Tutorials (please see the list of tutorials)

6:45am - 5:00pm: Registration (Second Floor, Conference Lobby: 1-5)

08:00a - 05:00p: During this period, MSV'08 attendees are encouraged to participate in sessions belonging to PDPTA'08, CSC'08, IPCV'08, CGVR'08, or FECS'08. These sessions discuss topics that overlap the scope of MSV'08.

PDPTA'08 CONFERENCE SCHEDULE

The 2008 International Conference on Parallel and Distributed Processing Techniques and Applications

Monte Carlo Resort, Las Vegas, Nevada, July 14-17, 2008

Note 1:

There are a number of other sessions (not listed as part of PDPTA'08 schedule) that are of significant interest to PDPTA conference participants (sessions belonging to other joint conferences in this event.) Therefore, you are encouraged to also check the schedules for other joint conferences. In particular, some sessions in GCA'08, CDES'08, CSC'08, BIOCOMP'08, ICOMP'08, ESA'08, FECS'08, CIC'08, and ERSAs'08, discuss topics that are within the scope of PDPTA; these have been scheduled so that PDPTA attendees can also participate in them.

Note 2:

Each conference is divided into a number of topical sessions. These sessions are not necessarily scheduled in the same room/location. Therefore, conference attendees are to check the location of the session(s) they wish to attend - The conference room numbers appear in this document.

July 13

03:00 - 09:00pm: REGISTRATION (Second Floor, Conference Lobby; 1-5)

- 6:30am - 5:00pm: Registration (Second Floor, Conference Lobby: 1-5)
- 08:30 - 08:45am: WORLDCOMP'08 Opening Remarks
Prof. Hamid R. Arabnia (General Chair & Coordinator)
University of Georgia, Georgia, USA
(LOCATION: Lance Burton Theater)
- 08:45 - 09:35am: Keynote Lecture 1:
The Parallel Computing Landscape: A Berkeley View 2.0
Prof. David A. Patterson
Pardee Prof. of CS; Director, RAD Lab & Par Lab; Past
President, ACM; Member, National Academy of Engineering;
Member, National Academy of Sciences; Fellow of IEEE, ACM,
& AAAS; University of California at Berkeley.
(LOCATION: Lance Burton Theater)
- 09:40 - 10:25am: Keynote Lecture 2:
Searching in the "Real World"
Prof. Ophir Frieder
The Royden B. Davis, SJ, Chair in Interdisciplinary
Studies at Georgetown University; IITRI Chair Professor
of CS at Illinois Institute of Technology; Director,
Information Retrieval lab; Fellow of IEEE, ACM, and AAAS
(LOCATION: Lance Burton Theater)
- 10:30 - 11:15am: Keynote Lecture 3:
Achieving your Dreams
Anousheh Ansari
CEO, Chairman and Co-founder of Prodea Systems, Inc., USA;
Space Ambassador
(LOCATION: Lance Burton Theater)
- 11:15a - 12:00p: Keynote Lecture 4:
Dimensions in Reconfigurable Computing: A New Wave in
Electronic System Designs
Chris Phillips
Vice President of Engineering at ElementCXI, USA
(LOCATION: Lance Burton Theater)
- 12:00 - 12:40pm: LUNCH (On Your Own)

12:40 - 01:20pm: **DISCUSSION SESSION A-PDPTA (Refreshments will be available)**
July 14, 2008 (Monday)
(LOCATION: Hallways - Ballrooms 1-5)

- 0. QoS Based Energy-Aware Clustering and Routing Algorithm for Wireless Sensor Networks
 Jangsu Lee, Hongjoong Sin, Sungjoo Lee, Sanghyuc Lee, Seunghwan Yoo, Sungwook Kim, and Sungchun Kim
 Sogang University, Seoul, South Korea
- 0. Steady State Analysis of QP-MIP for Location Management
 Gyunggu Kang, SeongGeun Ryu, and Youngsong Mun
 Soongsil University, Korea
- 0. The Gossiping Algorithm for OTIS-k-Ary n-Cube Parallel Computer
 Keny T. Lucas
 Xavier Institute of Social Service, India
- 0. Mstream: Multi-Senders Video-on-Demand Streaming on Peer to Peer Overlay Network
 Yi Qi Gui and Hwang Kyu Choi
 Kangwon National University, Kangwon, Korea
- 0. Domino-Effect Free Recovery for Concurrent Failures in Distributed Computing Environment
 B. Gupta, S. Rahimi, V. Allam, and V. Jupally
 Southern Illinois University, USA
- 0. The Study of Online Cataloging Information Systems
 David E. Weirich and Zizhong J. Wang
 Virginia Wesleyan College, Norfolk, Virginia, USA
- 0. A Parallel Approach for a Block Tri-Diagonal Solver in Fusion Simulation
 Huiqing H. Yang, Raul Sanchez, Steven Hirshman, and Vickie Lynch
 Virginia State University, USA
 Oak Ridge National Laboratory, Oak Ridge, Tennessee, USA
- 0. Lightweight Task Analysis for Cache-Aware Scheduling on Heterogeneous Clusters
 Xavier Grehant
 CERN openlab, Geneva and ENST, Paris and Switzerland

- SESSION 1-PDPTA: WORKSHOP ON MATHEMATICAL MODELING AND PROBLEM SOLVING**
Chairs: Prof. Mario Nakamori and Prof. Kazuki Joe; Japan
July 14, 2008 (Monday); 01:20pm - 04:20pm
(LOCATION: Ballroom 4)
- 01:20 - 01:40pm: A Room Modeling Method for 3D Video
Aya Isshiki, Ryuuki Sakamoto, Itaru Kitahara, Kiyoshi Kogure,
and Kazuki Joe
Nara Women's University, Nara, Japan
- 01:40 - 02:00pm: Real-Time 3D Movie Generation by Anaglyph for Live Streaming
Yuki Kobori, Yuri Shirakawa, Chisato Ishikawa, Masami Takata
and Kazuki Joe
Nara Women's University, Nara, Japan
- 02:00 - 02:20pm: A Note on Sequence Generation Power of Communication-Restricted
Cellular Automata with Small Number of States
Naoki Kamikawa
Osaka Electro-Communication University, Osaka, Japan
- 02:20 - 02:40pm: Large Scale Computing for Protein - Protein Binding Free
Energy Calculation
Junichi Ikeda, Kazuki Ohno, Sayaka Akioka, Masaya Orita,
Yoichi Muraoka, Tamotsu Noguchi, and Masakazu Sekijima
AIST Tokyo Waterfront Bio-IT Research Building, Tokyo, Japan
- 02:40 - 03:00pm: Preliminary Modeling of Yeast with Alcohol Tolerant Property
for the E-Cell System
Mayumi Kamada, Natsu Nakajima, Chisato Ishikawa,
Masami Takata and Kazuki Joe
Nara Women's University, Nara, Japan
- 03:00 - 03:20pm: BREAK**
- 03:20 - 03:40pm: Convergence Analysis of the Cunning Ant System with Entropy Measure
Shigeyoshi Tsutsui
Hannan University, Matsubara, Osaka, Japan
- 03:40 - 04:00pm: Evaluations of Parallel Double Divide and Conquer on a
16-Core Computer
Taro Konda, Hiroki Toyokawa and Yoshimasa Nakamura
Kyoto University, Sakyo-ku, Kyoto, Japan
- 04:00 - 04:20pm: Parallel Construction Method of a Disk-Based Suffix
Tree on a PC Cluster
Yusuke Sawada, Keiichi Tamura, Kotaro Araki, Makoto Takaki,
and Hajime Kitakami
Hiroshima City University, Hiroshima, Japan
- 04:20 - 05:00pm: INVITED PAPER:**
Reliable Data Movement Framework for Distributed Science Environments
Rajkumar Kettimuthu
Argonne National Laboratory, Argonne, Illinois, USA and
The University of Chicago, Illinois, USA
- 05:00 - 05:20pm: A GridFTP Transport Driver for Globus XIO
Rajkumar Kettimuthu, Liu Wantao, Joseph Link, & John Bresnahan
Argonne National Laboratory, Argonne, Illinois, USA;
The University of Chicago, Illinois, USA;
Beihang University, Beijing, P. R. China;
Globus Contributor, Addison, Illinois, USA

- SESSION 2-PDPTA: HPC: ARCHITECTURES, ALGORITHMS, AND I/O - HPC2AIO**
Chair: Prof. Steve C. Chiu, Idaho State University, Idaho, USA)
July 14, 2008 (Monday); 05:20pm - 06:00pm
(LOCATION: Ballroom 4)
- 05:20 - 05:40pm: Parallelization of PAUP Bootstrapping
Luobin Yang, Steve C. Chiu, and Michael A. Thomas
Idaho State University, Pocatello, Idaho, USA
- 05:40 - 06:00pm: An Interactive Edutainment Environment Based on Multimedia
Learning Theory
Danli Wang and Steve C. Chiu
Chinese Academy of Sciences, Beijing, P. R. China;
Idaho State University, Pocatello, Idaho, USA
- 06:00 - 09:00pm: **Tutorials (please see the list of tutorials)**
- 09:10 - 11:30pm: **CONFERENCE RECEPTION DINNER & BANQUET KEYNOTE - July 14 (Monday)**
High Performance Computing and Computational Intelligence: Link
to the Translational Medicine and Personalized Healthcare
Dr. Jack Y. Yang and Dr. Mary Qu Yang
Harvard University, Massachusetts, USA and
National Human Genome Research Institute, NIH, Bethesda, USA
(LOCATION: Ballrooms 1-5)
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6:45am - 5:00pm: Registration (Second Floor, Conference Lobby: 1-5)

SESSION 3-PDPTA: WORKSHOP ON SCALABLE DATA MANAGEMENT APPLICATIONS AND SYSTEMS - SDMAS
Chairs: Prof. Jesus Carretero, Prof. Jose Daniel Garcia, and Dr. Felix Garcia;
Universidad Carlos III de Madrid, Madrid, Spain
July 15, 2008 (Tuesday); 08:00am - 09:40am
(LOCATION: Ballroom 4)

08:00 - 08:20am: Predicting Web Cache Behavior Using Stochastic State-Space Models
Amitayu Das, Ritendra Datta, Bhuvan Uргаonkar, and
Anand Sivasubramaniam

08:20 - 08:40am: Main Memory DBMS on Modern Processors, a Simulation Approach
for Database Performance Characterization
Xiang Xiao and Jaehwan John Lee

08:40 - 09:00am: Characterizing the Sort Operation on Multithreaded Architectures
Layali Rashid, Wessam Hassanein, and Moustafa Hammad

09:00 - 09:20am: Analyzing Scalable High-Performance I/O Architectures
Alberto Nunez, Javier Fernander Munoz, and Jesus Carretero

09:20 - 09:40am: A Lightweight Storage System for Sensor Nodes
Soledad Escolar, Jesus Carretero, Florin Isaila, & Stefano Lama

SESSION 4--PDPTA: PERFORMANCE EVALUATION & MANAGEMENT OF NETWORKS & DISTRIBUTED SYSTEMS
Chairs: Dr. Zornitza Prodanoff and Prof. Sanjay Ahuja;
University of North Florida, Jacksonville, Florida, USA
July 15, 2008 (Tuesday); 09:40am - 10:20am
(LOCATION: Ballroom 4)

09:40 - 10:00am: Dynamic and Secure User Management in Networked Consumer Electronics
Tatsuya Tokunaga and Satoshi Fujita
Hiroshima University, Japan

10:00 - 10:20am: Utilizing RSS Feeds by Web Request and Web Service Models
in the .NET Compact Framework
Andrew Dutt, Sarah White, and Zornitza Prodanoff
University of North Florida, Jacksonville, Florida, USA

10:20 - 10:40am: BREAK

SESSION 5-PDPTA: PARALLEL PROCESSING AND APPLICATIONS

Chair: Prof. Steve C. Chiu, Idaho State University, Idaho, USA
July 15, 2008 (Tuesday); 10:40am - 11:40am
(LOCATION: Ballroom 4)

10:40 - 11:00am: A New Web Cache Replacement Algorithm: Perfect-Time-Size
Least Frequently Used
Tarik Kapetanovic and M. H. Samadzadeh
Oklahoma State University, USA

11:00 - 11:20am: A Parallel Implementation of K-Means Clustering on GPUs
Reza Farivar, Daniel Rebolledo, Ellick Chan, and Roy Campbell
University of Illinois at Urbana-Champaign, Illinois, USA

11:20 - 11:40am: Parallel Processing Architecture for Solving Large-Scale Linear Systems
Arun Nagari, Itamar Elhanany, and Ben Thompson
The University of Tennessee Knoxville, Tennessee, USA

SESSION 6-PDPTA: RESOURCE ALLOCATION + SCHEDULING + PARALLEL COMPUTING

Chair: Syed S. Rizvi, University of Bridgeport, USA

July 15, 2008 (Tuesday); 11:40am - 12:40pm

(LOCATION: Ballroom 4)

- 11:40 - 12:00pm: Iterative Techniques for Maximizing Stochastic Robustness of a Static Resource Allocation in Periodic Sensor Driven Clusters
Jay Smith, Howard Jay Siegel, and Anthony A. Maciejewski
DigitalGlobe, Longmont, Colorado, USA;
Colorado State University, Fort Collins, Colorado, USA
- 12:00 - 12:20pm: An Optimizing Distributed Scheduler for High-Level Synthesis
Stephen Blythe
Southern Illinois University - Edwardsville, USA
- 12:20 - 12:40pm: Monte Carlo and Quasi Monte Carlo in Parallel Computing
Zizhong J. Wang
Virginia Wesleyan College, Norfolk, Virginia, USA
- 12:40 - 01:20pm: **LUNCH (On Your Own)**

- SESSION 7-PDPTA: AD HOC & UBIQUITOUS NETWORKING ENVIRONMENT I**
Chair: Prof. Hiroshi Ishii, Tokai University, Japan
July 15, 2008 (Tuesday); 01:20pm - 03:20pm
(LOCATION: Ballroom 4)
- 01:20 - 01:40pm: VLSI Design of Networking-Oriented Chip Multi-Processor; CUE-v3
Hiroaki Nishikawa, Hiroshi Tomiyasu, and Hiroyuki Uchida
University of Tsukuba, Tsukuba Science City, Ibaraki, Japan
- 01:40 - 02:00pm: Data-Driven Protocol Off-Loading for Ad Hoc Networking Environment
Kazuhiro Aoki, Hiroshi Ishii, Osamu Mizuno, Makoto Iwata,
and Hiroaki Nishikawa
Information Infrastructure Laboratory, Inc., Tsukuba Science City,
Ibaraki, Japan
- 02:00 - 02:20pm: Data-Driven Implementation of Wireless Mesh Protocol
Mitsuru Iwaoka and Hiroaki Nishikawa
Tokyo, Japan
- 02:20 - 02:40pm: Performance Study on Multipoint-to-Point Video Streaming
over Mobile Ad Hoc Networks
Keisuke Utsu, Chee Onn Chow, Hiroaki Nishikawa, and
Hiroshi Ishii
Tokai University, Kanagawa, Japan
- 02:40 - 03:00pm: Data-Driven Implementation of Contents Discovery Service
on Ad Hoc Ubiquitous Network
Yoshiko Sueda, Osamu Mizuno, Naoyuki Hirata, Hiroshi Ishii,
and Hiroaki Nishikawa
NTT Information Platform Labs., Musashino-shi, Tokyo, Japan
- 03:00 - 03:20pm: Surrounding Healthcare Environment on Ad Hoc Network
Yuki Tamura, Masaaki Hashida, Shuji Sannomiya, and Makoto Iwata
Kochi University of Technology, Kochi, Japan

03:20 - 04:00pm: **DISCUSSION SESSION B-PDPTA (Refreshments will be available)**
July 15, 2008 (Tuesday)
(LOCATION: Hallways - Ballrooms 1-5)

- 0. A Characterisation Tool for the Impact of Network Deficiencies of HPC Applications
Andreas Boklund, Nima Namaki, Stefan Mankefors-Christiernin, Christian Jiresjo
University West, Sweden
- 0. Construction of Loosely-Structured Overlay Using Bloom Filter
Takahashi, Taisuke Izumi, Hirotsugu Kakugawa, & Toshimitsu Masuzawa
Osaka University, Japan
- 0. MPI-Based Parallel Algorithm Design and Performance Evaluation for FDTD EM Simulation
Hong-Mei Xie, Qiang Ding, Gui-Qing He, and Mingyu Lu
Northwestern Polytechnic University, P. R. China

- SESSION 8-PDPTA: ULTRA LOW POWER DATA-DRIVEN NETWORKING SYSTEM - CREST**
Chair: Prof. Hiroaki Nishikawa, University of Tsukuba, Japan
July 15, 2008 (Tuesday); 04:00pm - 06:00pm
(LOCATION: Ballroom 4)
- 04:00 - 04:20pm: Collaborative Research Project on Ultra-Low-Power Data-Driven Networking System
Hiroaki Nishikawa, Hiroshi Ishii, and Makoto Iwata
Tokai University, Tokyo, Japan
- 04:20 - 04:40pm: Autonomous Power-Supply Control for Ultra-Low-Power Self-Timed Pipeline
Kei Miyagi, Shuji Sannomiya, Keiichi Sakai, Makoto Iwata, and Hiroaki Nishikawa
Kochi University of Technology, Kochi, Japan
- 04:40 - 05:00pm: A Data-Driven On-Chip Simulation Module and Its FPGA Implementation
Shuji Sannomiya, Naoya Kagawa, Keiichi Sakai, and Makoto Iwata
Kochi University of Technology, Kochi, Japan
- 05:00 - 05:20pm: A Software-Defined ADC and DAC on Data-Driven Processor
Keisuke Koito, Keiichi Sakai, and Makoto Iwata
Kochi University of Technology, Kochi, Japan
- 05:20 - 05:40pm: Trust Relationship Based Self-Organized Public Key Management over MANET
Hideaki Kawabata and Hiroshi Ishii
Tokai University, Kanagawa, Japan
- 05:40 - 06:00pm: GPS Aided Effective Information Discovery over Mobile Ad-hoc Network
Naohide Fukushi and Hiroshi Ishii
Tokai University, Kanagawa, Japan

SESSION 9-PDPTA: PARALLEL PROCESSING AND APPLICATIONS + RESOURCE ALLOCATION + SCHEDULING

Chairs: Xavier Grehant and Zizhong J. Wang

CERN openlab, Geneva & ENST, Paris

Virginia Wesleyan College, Norfolk, Virginia, USA

July 15, 2008 (Tuesday); 06:00pm - 07:00pm

(LOCATION: Ballroom 4)

06:00 - 06:20pm: Time Delay Analysis for a Parallel Steiner Tree Algorithm

Rashid Bin Muhammad

Kent State University, Kent, Ohio, USA

06:20 - 06:40pm: Parallel Algorithms for Polynomial Interpolation on

OTIS-Hypercube Parallel Computer

Keny T. Lucas

Xavier Institute of Social Service, Jharkhand, India

06:40 - 07:00pm: New Heuristics for Rotation Scheduling

Michael E. Richter, David J. Poeschl, and Timothy W. O'Neil

The University of Akron, USA

06:00 - 09:30pm: Tutorials (please see the list of tutorials)

6:45am - 5:00pm: Registration (Second Floor, Conference Lobby: 1-5)

SESSION 10-PDPTA: COMMUNICATION STRATEGIES, SYSTEMS, ROUTING, AND PROTOCOLS
Chair: Dr. Keiichi Kaneko, Tokyo University of Agriculture and Technology,
Japan
July 16, 2008 (Wednesday); 08:00am - 10:40am
(LOCATION: Ballroom 4)

08:00 - 08:20am: An Efficient Single Bit Store and Forward (SBSF) Routing
Algorithm for Mesh-Hypercube (M-H) Networks
Syed S. Rizvi and Aasia Riasat
University of Bridgeport, USA;
Institute of Business Management, Pakistan

08:20 - 08:40am: Investigation into Soft-State Protocol Parameters
Melissa Tjong and Johan Lukkien
Eindhoven University of Technology, The Netherlands

08:40 - 09:00am: A Barrier Synchronization Protocol for Broadcast Networks Based
on Dynamic Access Control
Satoshi Fujita and Shigeaki Tagashira
Hiroshima University, Japan; Kyushu University, Japan

09:00 - 09:20am: Two-Tier Energy-Aware Routing Protocol for Wireless Sensor Networks
Sang-Eon Park, Min-Hyun Park, and Young-Jun Chung
Salisbury University, Maryland, USA
Kangwon National University, Chunchon, Korea

09:20 - 09:40am: Cluster Based Transmitting Power-Aware Routing Path Selection in AODV
Jangsu Lee, Sungwook Kim, and Sungchun Kim
Sogang University, Seoul, South Korea

09:40 - 10:00am: Efficient Forward Error Correction for Reliable Transmission
in Packet Networks
T. M. Elfouly, M. Saleh, and Q. M. Malluhi
Qatar University, Doha, Qatar

10:00 - 10:20am: A New Configuration of an Incomplete Star Graph and its
Routing Algorithm
Tatsuya Iwasaki and Keiichi Kaneko
Tokyo University of Agriculture and Technology, Japan

10:20 - 10:40am: Exploiting Skewed Demand for Performance Enhancement of
Adaptive Peer-to-Peer Networks
Amlan Bhattacharya and Sukumar Ghosh
University of Iowa, Iowa City, Iowa, USA

10:40 - 11:00am: BREAK

SESSION 11-PDPTA: APPLICATIONS IN SIMULATION AND MODELING

Chair: Dr. Louis D'Alotto, York College/CUNY, USA

July 16, 2008 (Wednesday); 11:00am - 12:40pm

(LOCATION: Ballroom 4)

- 11:00 - 11:20am: Optimizing the Performance of NMA for Conservative Synchronization in Parallel and Discrete Event Simulation
Syed S. Rizvi and Aasia Riasat
University of Bridgeport, USA;
Institute of Business Management, Pakistan
- 11:20 - 11:40am: On Load Balancing Distributed Simulation of Relativistic Particle Transport
Ruipeng Li, Hai Jiang, Hung-Chi Su, Jeff Jenness, and Bin Zhang
Arkansas State University, Arkansas, USA
- 11:40 - 12:00pm: Modeling Complex Natural Phenomena with the libAuToti Cellular Automata Library: an Example of Application to Lava Flows Simulation
Giuseppe Spingola, Donato D. Ambrosio, William Spataro, Rocco Rongo, and Giuseppe Zito
University of Calabria, Rende, Italy
- 12:00 - 12:20pm: Performance Optimization of Parallel and Scalable Distributed Simulation Systems Using Trees and Butterflies Barriers with Optimistic Synchronization Protocols
Syed S. Rizvi and Aasia Riasat
University of Bridgeport, USA;
Institute of Business Management, Pakistan
- 12:20 - 12:40pm: A Java Based Framework for Numerical Simulations of Collisional Systems
Jason Leezer, Mark C. Lewis, and Berna L. Massingill
Trinity University, USA
- 12:40 - 01:20pm: **LUNCH (On Your Own)**

SESSION 12-PDPTA: DISTRIBUTED PROCESSING AND APPLICATIONS

Chair: Dr. Louis D'Alotto and Ritu Arora

York College/CUNY, USA

University of Alabama at Birmingham, USA

July 16, 2008 (Wednesday); 01:20pm - 02:00pm

(LOCATION: Ballroom 4)

- 01:20 - 01:40pm: An Open Peer-to-Peer Based Platform for Scalable Multimedia Communication
Frederic Iterbeke, Stijn Melis, Bart De Vleeschauwer,
Tim Wauters, Filip De Turck, Bart Dhoedt, Piet Demeester,
Bart Theeten, and Thierry Pollet
Ghent University, IBBT, Ghent, Belgium;
Alcatel-Lucent Bell Research and Innovation, Antwerp, Belgium
- 01:40 - 02:00pm: A Content Directory Management Method of Distributed UPnP Media Servers
C.-C. Chen, Y.-C. Zhuang, and J.-H. Liu
Industrial Technology Research Institute of Taiwan, Taiwan, R.O.C.

SESSION 13-PDPTA: MULTIPROCESSOR SYSTEMS + CLUSTERS + GRID COMPUTING I

Chairs: Prof. J. Daniel Garcia and Ritu Arora

University Carlos III of Madrid, Spain

Ritu Arora, University of Alabama at Birmingham, USA

July 16, 2008 (Wednesday); 02:00pm - 03:00pm

(LOCATION: Ballroom 4)

- 02:00 - 02:20pm: An Intelligent Parallel and Scalable Server I/O Networking Environment For High Performance Cluster Computing Systems
Hsing-bung Chen, Alfred Torrez, and Parks Fields
Los Alamos National Lab, USA
- 02:20 - 02:40pm: Hardware Supported Synchronization Primitives for Clusters
Alberto F. De Souza, Soterio F. Souza, Claudio Amorim,
Priscila Lima, and Peter Rounce
Universidade Federal do Espirito Santo, Brazil;
PESC/COPPE, UFRJ, Brazil; University College London, UK
- 02:40 - 03:00pm: Buffer Management in a Real-Time Shared Disks Cluster
Haengrae Cho
Yeungnam University, Korea

03:00 - 03:40pm: **DISCUSSION SESSION C-PDPTA (Refreshments will be available)**
July 16, 2008 (Wednesday)
(LOCATION: Hallways - Ballrooms 1-5)

- 0. A MAC Protocol for Guaranteed 1-hop Broadcasting (GOB) in Mobile Ad Hoc Networks
Seungjin Park
University of Southern Indiana, Evansville, Indiana, USA
- 0. Unified Architectures for Parallel Cyclic Convolution and Reduced Complexity Parallel FIR Filtering
Marvi Teixeira
Polytechnic University of Puerto Rico, Puerto Rico
- 0. A Fuzzy-Based Reputation System to Solve Free-Riding Problem
Ming-Chang Huang and Yu-Kai Lin
National Tsing Hua University Hsinchu, Taiwan
- 0. Intrusion-Tolerant Dissemination in Large-Scale Systems
Kim P. Kihlstrom, Robin S. Elliott, Kelsey A. Marshman, & Aaryn C. Smith; Westmont College, USA
- 0. Fully Distributed Active Software Objects Replication In OO-Middleware
A. Samy Durai and Saswati Mukherjee
Dhanalakshmi College of Engineering, India
- 0. Multicast Tree Configuration with Bandwidth Reservation in Overlay Networks
Hirokazu Obata and Hiroaki Higaki
Tokyo Denki University, Japan
- 0. Using Aspect-Oriented Programming for Checkpointing a Parallel Application
Ritu Arora and Purushotham Bangalore
University of Alabama at Birmingham, USA
- 0. Dual Core Efficiency for Engineering Simulation Applications
Andreas Boklund, Nima Namaki, Stefan Mankefors-Christiernin, Johan Gustafsson, Mikael Lingbrand
University West, Sweden

SESSION 14-PDPTA: MULTIPROCESSOR SYSTEMS + CLUSTERS + GRID COMPUTING II
Chairs: Prof. Stefan Christiernin and Prof. J. Daniel Garcia
University West, Trollhattan, Sweden
University Carlos III of Madrid, Spain
July 16, 2008 (Wednesday); 03:40pm - 05:00pm
(LOCATION: Ballroom 4)

- 03:40 - 04:00pm: On the Many-Processor Paradigm
Mihaela Malita and Gheorghe Stefan
St. Anselm College, USA;
BrighScale, Inc, USA
- 04:00 - 04:20pm: Parallel Failure Recovery Techniques in Cluster-based Media Servers
Joahyung Lee, Heonguil Lee, and Inbum Jung
Kangwon National University, Korea
- 04:20 - 04:40pm: Evaluation of Task Mapping Schemes on Cluster Systems
Chau-Yi Chou, Hsi-Ya Chang, Kuo-Chan Huang, Shuen-Tai Wang,
and Cheng-Yeu Shen
National Center for High-performance Computing, Taiwan
- 04:40 - 05:00pm: Self-Gridiron: Reliable, Autonomous, and Fully Decentralized
Desktop Grid Computing System Based on Neural Overlay Network
EunJoung Byun, HongSoo Kim, SungJin Choi, SangKeun Lee,
Young S. Han, and SoonYoung Jung
Korea University, Seoul, Korea

SESSION 15-PDPTA: INTERCONNECTION NETWORKS + GRAPHS ALGORITHMS I

**Chair: Hsi-Ya (Jerry) Chang, NCHC, Taiwan
July 16, 2008 (Wednesday); 05:00pm - 06:40pm
(LOCATION: Ballroom 4)**

- 05:00 - 05:20pm: Comparison-Based Diagnosis on Incomplete Star Graphs
Chieh-Feng Chiang and Jimmy J. M. Tan
National Chiao-Tung University, Hsinchu, Taiwan, ROC
- 05:20 - 05:40pm: Multi-Shared-Trees Based Multicasting in Mesh-Connected Networks
Hovhannes Harutyunyan, Shahin Kamali and Talin Moradian
Concordia University, Canada
- 05:40 - 06:00pm: Optimal Subcube Embeddability in Hypercubes with Additional Dimension
Shameema Yasim and Shahram Latifi
University of Nevada, Las Vegas, Nevada, USA
- 06:00 - 06:20pm: Developing Dual-Pair Parallel Processing for Pervasive
Communication with Spider-Web Networks
Li-Yen Hsu
China Institute of Technology, Taiwan
- 06:20 - 06:40pm: Spare Dimensions in Hypercubes
Shameema Yasim and Shahram Latifi
University of Nevada, Las Vegas, Nevada, USA
- 06:00 - 09:30pm: Tutorials (please see the list of tutorials)**

6:45am - 5:00pm: Registration (Second Floor, Conference Lobby: 1-5)

SESSION 16-PDPTA: INTERCONNECTION NETWORKS + GRAPHS ALGORITHMS II
Chair: Dr. Stephen Blythe, Southern Illinois University - Edwardsville, USA
July 17, 2008 (Thursday); 08:00am - 10:20am
(LOCATION: Ballroom 4)

08:00 - 08:20am: Firefly Inspired Distributed Graph Coloring Algorithms
 Sof Anthony Lee
 University of Technology Sydney, NSW, Australia

08:20 - 08:40am: CSMIN Revisited: Accurate Algorithms and Strategic Design Issues
 Nitin, Shruti Garhwal and Neha Srivastava
 Jaypee University of Information Technology, India

08:40 - 09:00am: Matrix Multiplication on OTIS k-ary 2-cube Network
 Dheeresh K. Mallick and Prasanta K. Jana
 Birla Institute of Technology, India;
 Indian School of Mines University, India

09:00 - 09:20am: Analysis of Different AMBA-Based Bus Interconnection Schemes
 for ARM7 Multicore Environment
 Jennifer M. Jayme, Anastacia P. Ballestil, & Joy Alinda P. Reyes
 University of the Philippines, Philippines

09:20 - 09:40am: Analyzing the Banyan Network Performance under Various Network
 Traffic Conditions
 Somashekar Akkaladevi and Ajay K. Katangur
 Virginia State University, USA;
 Texas A&M University-Corpus Christi, USA

09:40 - 10:00am: An Interconnection Network Based on Asynchronous Optical
 Packet Switching for High Performance Computing System
 Zhao, Jun and Sun, Xiaohan
 Southeast University, China

10:00 - 10:20am: One-to-Many Parallel Routing Algorithm on Recursive Circulant
 Networks Employing the Hungarian Method
 Dongmin Choi, Okbin Lee and Ilyong Chung
 Chosun University, Korea

10:20 - 10:40am: BREAK

SESSION 17-PDPTA: SOFTWARE ARCHITECTURES, LANGUAGES, COMPILERS, & OS ISSUES

Chair: Dr. Stephen Blythe, Southern Illinois University - Edwardsville,
USA

July 17, 2008 (Thursday); 10:40am - 11:40am

(LOCATION: Ballroom 4)

10:40 - 11:00am: HDOS:An Infrastructure for Dynamic Optimization

Tomoaki Ukezono and Kiyofumi Tanaka

JAPAN Advanced Institute of Science and Technology, Japan

11:00 - 11:20am: FREE SLOT

11:20 - 11:40am: Common Description Language of SIMD Instructions for
Performance Portability

Shoichi Hirasawa, Yu Nakanishi, Hiromasa Watanabe and Hiroki Honda
UEC-IS, Japan

SESSION 18-PDPTA: RECONFIGURABLE SYSTEMS + FPGA + ALGORITHMS
Chairs: Prof. David H. Williams and Dr. Hua Li
University of Texas at El Paso, Texas, USA
University of Lethbridge, Canada
July 17, 2008 (Thursday); 11:40am - 12:20pm
(LOCATION: Ballroom 4)

11:40 - 12:00pm: Design of Reconfigurable DFA Architecture
Hua Li, Zac Friggstad, and Fang M. Wang
University of Lethbridge, Canada

12:00 - 12:20pm: Structural Dynamic Changes with CPNs
Marisa Llorens, Javier Oliver, and Oscar Vega
DSIC, UPV - Camino de Vera, Valencia, Spain

12:20 - 01:00pm: LUNCH (On Your Own)

SESSION 19-PDPTA: PARALLEL PROCESSING AND APPLICATIONS

Chair: Dr. William Spataro, University of Calabria, Italy
July 17, 2008 (Thursday); 01:00pm - 02:20pm
(LOCATION: Ballroom 4)

01:00 - 01:20pm: FREE SLOT

01:20 - 01:40pm: Parallel Prefix on Mesh of Trees and OTIS Mesh of Trees
Dheeresh K. Mallick and Prasanta K. Jana
Birla Institute of Technology, India;
Indian School of Mines University, India

01:40 - 02:00pm: Two Parallel Algorithms to Solve the 2D Knapsack Problem Using GPUs
Michael Scherger
Texas A&M University - Corpus Christi, USA

02:00 - 02:20pm: Parallel Computations for One Dimensional Linear Automata
Louis D'Alotto
York College/CUNY, USA

SESSION 20-PDPTA: DISTRIBUTED PROCESSING AND APPLICATIONS

**Chair: Xavier Grehant, CERN openlab, Geneva & ENST, Paris
 July 17, 2008 (Thursday); 02:20pm - 05:20pm
 (LOCATION: Ballroom 4)**

- 02:20 - 02:40pm: Deploying Complex Distributed Application
 Ton Ngo, Naoya Yamamoto, and Yoriko Ohnishi
 IBM Silicon Valley Laboratory, San Jose, California, USA;
 IBM Yamato Software Laboratory, Kanagawa, Japan
- 02:40 - 03:00pm: Analysis of a Neural Network Training Program Implemented
 with MPI and RPCs
 Hector Cordova II, David H. Williams, and Patricia A. Nava
 The University of Texas at El Paso, El Paso, Texas, USA
- 03:00 - 03:20pm: BREAK**
- 03:20 - 03:40pm: Emerging technological trends in Supply Chain Management
 Manoj Manuja and Rajender Kalra
 Infosys Technologies Limited, India
- 03:40 - 04:00pm: Message Efficient Leader Election in Synchronous Distributed
 System with Failure Detectors
 Sang-Ho Lee and Sung Hoon Park
 Chungbuk National University Cheongju, ChungBuk, Korea
- 04:00 - 04:20pm: FREE SLOT
- 04:20 - 04:40pm: The Study of SOA/CBD-Based Next-Generation Business System
 Platform Design
 Kyeongrim Ahn, Sangpil Park, Kabdeuk Kim, Jongryeol Kim,
 and Jungchun Park
 KL-Net Corp. Laboratory, Korea
- 04:40 - 05:00pm: A Distributed Search Algorithm on Extremely Large Datasets
 Xinlian Liu
 Hood College, Frederick, Maryland, USA
- 05:00 - 05:20pm: Using a Greedy-Based Approach for Solving Data Allocation
 Problem in a Distributed Environment
 F. Marir, Mohamed Tounsi, and Hassan I. Abdalla
 London Metropolitan University, London, UK;
 Prince Sultan University, Riyadh, Saudi Arabia

SESSION 21-PDPTA: LOAD BALANCING STRATEGIES + PERFORMANCE ANALYSIS, EVALUATION & TUNING

Chair: Xavier Grehant, CERN openlab, Geneva & ENST, Paris

July 17, 2008 (Thursday); 05:20pm - 06:40pm

(LOCATION: Ballroom 4)

- 05:20 - 05:40pm: Performance, Area and Power Trade-Offs in Mesh-Based Emulated Shared Memory CMP Architectures
Martti Forsell and Jussi Roivainen
VTT, Finland
- 05:40 - 06:00pm: A Comparative Xeon and CBE Performance Analysis
Randy Fort and Robert Chun
San Jose State University, San Jose, California, USA
- 06:00 - 06:20pm: Dynamic Aspect-Oriented Load Balancing in Java RMI
Andrew Stevenson and Steve MacDonald
University of Waterloo, Canada
- 06:20 - 06:40pm: Evaluating an Early Stop Criterion and a Statistical Pruning Strategy of the Optimization Search Space
Apan Qasem
Texas State University, San Marcos, Texas, USA

SAM'08 CONFERENCE SCHEDULE

The 2008 International Conference on Security and Management

Monte Carlo Resort, Las Vegas, Nevada, July 14-17, 2008

Note 1:

There are a number of other sessions (not listed as part of SAM'08 schedule) that are of significant interest to SAM conference participants (sessions belonging to other joint conferences in this event.) Therefore, you are encouraged to also check the schedules for other joint conferences. In particular, some sessions in GCA'08, ICWN'08, ICOMP'08, SWWS'08, IKE'08, EEE'08, FECS'08, and CIC'08, discuss topics that are within the scope of SAM; these have been scheduled so that SAM attendees can also participate in them.

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July 13

03:00 - 09:00pm: REGISTRATION (Second Floor, Conference Lobby; 1-5)

- 6:30am - 5:00pm: Registration (Second Floor, Conference Lobby: 1-5)
- 08:30 - 08:45am: WORLDCOMP'08 Opening Remarks
Prof. Hamid R. Arabnia (General Chair & Coordinator)
University of Georgia, Georgia, USA
(LOCATION: Lance Burton Theater)
- 08:45 - 09:35am: Keynote Lecture 1:
The Parallel Computing Landscape: A Berkeley View 2.0
Prof. David A. Patterson
Pardee Prof. of CS; Director, RAD Lab & Par Lab; Past
President, ACM; Member, National Academy of Engineering;
Member, National Academy of Sciences; Fellow of IEEE, ACM,
& AAAS; University of California at Berkeley.
(LOCATION: Lance Burton Theater)
- 09:40 - 10:25am: Keynote Lecture 2:
Searching in the "Real World"
Prof. Ophir Frieder
The Royden B. Davis, SJ, Chair in Interdisciplinary
Studies at Georgetown University; IITRI Chair Professor
of CS at Illinois Institute of Technology; Director,
Information Retrieval lab; Fellow of IEEE, ACM, and AAAS
(LOCATION: Lance Burton Theater)
- 10:30 - 11:15am: Keynote Lecture 3:
Achieving your Dreams
Anousheh Ansari
CEO, Chairman and Co-founder of Prodea Systems, Inc., USA;
Space Ambassador
(LOCATION: Lance Burton Theater)
- 11:15a - 12:00p: Keynote Lecture 4:
Dimensions in Reconfigurable Computing: A New Wave in
Electronic System Designs
Chris Phillips
Vice President of Engineering at ElementCXI, USA
(LOCATION: Lance Burton Theater)
- 12:00 - 12:40pm: LUNCH (On Your Own)

12:40 - 01:20pm: DISCUSSION SESSION A-SAM (Refreshments will be available)
July 14 (Monday)
(LOCATION: Hallways - Ballrooms 1-5)

- 0. The Multi-Map Orbit Hopping Mechanism
Xiaowen Zhang
College of Staten Island /CUNY, USA
- 0. Invertibility Issues of Truncated Polynomials in NTRU Cryptosystems
P. Krishna Subba Rao, P. V. S. Lakshmi Jagadamba, and B. Viswanatham
GVP College for Degree and PG Courses, Visakhapatnam, India;
GVP College of Engineering Visakhapatnam, India
- 0. E-mail Security and Authentication Using Captcha and DSA
S. Giftson Selladurai, S. Aathi Lingam, J. Anish Jeo Blysis
- 0. Remote IP Address Based Intrusion Detection
JangSu Park and Byoungchul Ahn; Yeungnam University, Korea
- 0. Intrusion Detection System for Wireless Sensor Networks
Rahat Qureshi, Min K. Chang and Huirong Fu
Oakland University, USA
- 0. TUVNL: An Experimental Lab for Network Security Research and Education
Chung-Han Chen
Tuskegee University, USA

- SESSION 1-SAM: PRIVACY AND PASSWORDS + INTRUSION DETECTION AND FIREWALLS**
Chair: Mark D. Bedworth, CTO, PINoptic Ltd., Newcastle upon Tyne, United Kingdom
July 14, 2008 (Monday); 01:20pm - 03:00pm
(LOCATION: Ballroom 6)
- 01:20 - 01:40pm: A Novel Group Key Management Scheme for Privacy Protection Sensitive Information Systems
Xianping Wu, Huy Hoang Ngo, Phu Dung Le, & Balasubramaniam Srinivasan
Monash University, Melbourne, Victoria, Australia
- 01:40 - 02:00pm: An Authorization Scheme Using Partial ID for Privacy Protection in RFID
Shi-Mei Jin, Yong-Zhen Li, and Chung-Sei Rhee
Chungbuk National University of Korea, Korea
- 02:00 - 02:20pm: A Theory of Probabilistic One-Time Passwords
Mark D. Bedworth
CTO, PINoptic Ltd., Newcastle upon Tyne, United Kingdom
- 02:20 - 02:40pm: Visual Applications of Probabilistic One-Time Passwords for Personal Authentication
Mark D. Bedworth and Colin Allison
CTO & CEO, PINoptic Ltd., Newcastle upon Tyne, UK
- 02:40 - 03:00pm: Experiments with a Visual Probabilistic One-Time Password Authentication System
Mark D. Bedworth and Colin Allison
CTO & CEO, PINoptic Ltd., Newcastle upon Tyne, UK
- 03:00 - 03:20pm: BREAK**

SESSION 2-SAM: IDENTITY THEFT PREVENTION - PRIVACY PRESERVING PROTECTION OF DIGITAL IDENTITY

Chair: Wayne Jansen, NIST, Gaithersburg, Maryland, USA

Intel Corporation, Santa Clara, California, USA

July 14, 2008 (Monday); 03:20pm - 04:00pm

(LOCATION: Ballroom 7)

03:20 - 03:40pm: Decision Assistant Model for the Identity Selector in User-Centric IdM
Seung-Hyun Kim and Seunghun Jin

Electronics and Telecommunication Research Institute (ETRI), Korea

03:40 - 04:00pm: An Ad Hoc Trust Inference Model for Flexible and Controlled
Information Sharing

Danfeng Yao

Rutgers University, Piscataway, New Jersey, USA

- SESSION 3-SAM: DIGITAL FORENSICS**
Chair: Dr. Andrew Woodward, Edith Cowan University, Western Australia
July 14, 2008 (Monday); 04:00pm - 06:00pm
(LOCATION: Ballroom 7)
- 04:00 - 04:20pm: Forensic Implications of Using the Firewire Memory Exploit with Microsoft Windows XP
Andrew Woodward and Peter Hannay
Edith Cowan University, Western Australia
- 04:20 - 04:40pm: Is There an Ideal Forensic Process?
Patricia A. H. Williams
Edith Cowan University, Western Australia
- 04:40 - 05:00pm: A Study into the Forensic Recoverability of Data from 2nd Hand Blackberry Devices: World-Class Security, Foiled by Humans
Craig Valli
Edith Cowan University, Western Australia
- 05:00 - 05:20pm: What Artifacts do Current BitTorrent Clients Leave Behind?
Andrew Woodward
Edith Cowan University, Western Australia
- 05:20 - 05:40pm: Integrating Forensics Capabilities into Web Applications: Teaching Students the Why and How
Greg Baatard and Justin Brown
Edith Cowan University, Western Australia
- 05:40 - 06:00pm: Cold Boot Memory Aquisition: An Investigation into Memory Freezing and Data Retention Claims
Peter Hannay and Andrew Woodward
Edith Cowan University, Western Australia

- SESSION 4-SAM: SYSTEMS AND IMPLEMENTATIONS**
Chair: Dr. Robert F. Erbacher, Utah State University, Logan, USA
July 14, 2008 (Monday); 06:00pm - 07:00pm
(LOCATION: Ballroom 7)
- 06:00 - 06:20pm: Conceptual Design of a Method to Support IS Security Investment Decisions within the Context of Critical Business Processes
Heinz Lothar Grob, Gereon Strauch, and Jan Hermans
European Research Center for Information Systems,
University of Muenster, Germany
- 06:20 - 06:40pm: FREE SLOT
- 06:40 - 07:00pm: Secure Resource Sharing in Ad Hoc Networks
Michaela Greiler and Peter Schartner
Klagenfurt University, Austria
- 06:00 - 09:00pm: Tutorials (please see the list of tutorials)
- 09:10 - 11:30pm: CONFERENCE RECEPTION DINNER & BANQUET KEYNOTE - July 14 (Monday)
High Performance Computing and Computational Intelligence: Link
to the Translational Medicine and Personalized Healthcare
Dr. Jack Y. Yang and Dr. Mary Qu Yang
Harvard University, Massachusetts, USA and
National Human Genome Research Institute, NIH, Bethesda, USA
(LOCATION: Ballrooms 1-5)
-

6:45am - 5:00pm: Registration (Second Floor, Conference Lobby: 1-5)

SESSION 5-SAM: PRIVACY AND PASSWORDS + INTRUSION DETECTION AND FIREWALLS
Chair: Mark D. Bedworth, CTO, PINoptic Ltd., Newcastle upon Tyne, United Kingdom
July 15, 2008 (Tuesday); 08:00am - 10:20am
(LOCATION: Ballroom 8)

08:00 - 08:20am: Making A CASE for PACE: Components of the Combined Authentication Scheme Encapsulation for a Privacy Augmented Collaborative Environment
Geoff Skinner
The University of Newcastle, Callaghan, NSW, Australia

08:20 - 08:40am: Password Entry Scheme Resistant to Eavesdropping
Kenrick Mock and Bogdan Hoanca
University of Alaska Anchorage, USA

08:40 - 09:00am: Design of an Automatic Password Protection Mechanism for Digital Documents
Shashank Kaushik and Thomas Way
Villanova University, USA

09:00 - 09:20am: Virtual Password: Virtual Environment Based User Authentication
M. N. Doja and Naveen Kumar
Jamia Millia Islamia, India

09:20 - 09:40am: FREE SLOT

09:40 - 10:00am: IPSec Mechanism for Implementing VPN
Olalekan Adeyinka
University of East London, UK

10:00 - 10:20am: Experimental Analysis of Web Intrusion Detection Using a Graph-based Sequence Learning Algorithm
Yuhong Dong and Bing Wu
Fayetteville State University, Fayetteville, North Carolina, USA;
Alcorn State University, MS, USA

10:20 - 10:40am: BREAK

- SESSION 6-SAM: EMERGING TECHNOLOGIES AND APPLICATIONS**
Chair: Dr. Huiping Guo, California State University, Los Angeles, USA
July 15, 2008 (Tuesday); 10:40am - 12:20pm
(LOCATION: Ballroom 7)
- 10:40 - 11:00am: An Improved Indexing Scheme for Range Queries
Yvonne Yao and Huiping Guo
California State University, Los Angeles, California, USA
- 11:00 - 11:20am: FREE SLOT
- 11:20 - 11:40am: Secure Inter-Vehicle Vital Signal Communication via Short
Dynamic Group Management
Xidong Wang, Charlie Gladden, and Huirong Fu
Oakland University, USA
- 11:40 - 12:00pm: Support for Multiple Federation Technologies in a Single Sign
On Architecture
Manuel Sanchez, Oscar Canovas, and Gabriel Lopez
University of Murcia, Spain
- 12:00 - 12:20pm: Requirements for Digital Forensics Investigation Domain-Specific
Languages
Phillip G. Bradford and Daniel A. Ray
The University of Alabama, Tuscaloosa, Alabama, USA;
The University of Virginia College at Wise, Virginia, USA
- 12:20 - 01:00pm: **LUNCH (On Your Own)**

- SESSION 7-SAM: SPECIAL TRACK ON APPLIED CRYPTOLOGY AND NETWORK SECURITY**
Chairs: Prof. Kevin Daimi and Dr. Levent Ertaul
University of Detroit Mercy, Michigan, USA
California State University, East Bay, California, USA
July 15, 2008 (Tuesday); 01:00pm - 03:00pm
(LOCATION: Ballroom 6)
- 01:00 - 01:20pm: Implementing Cryptography for Packet Level Authentication
 Billy Brumley
 Helsinki University of Technology, Finland
- 01:20 - 01:40pm: Secure Authentication in Virtual Community by Using Media
 Access Control Address (MAC)
 Sunghyuck Hong and Junghoon An
 Texas Tech University, Lubbock, Texas, USA
- 01:40 - 02:00pm: Implementations of Montgomery Multiplication Algorithms
 in Machine Languages
 Emre Celebi, Mesut Gozutok, and Levent Ertaul
 California State University, East Bay, Hayward, California, USA;
 Havelsan Corporation, Ankara, Turkey
- 02:00 - 02:20pm: Implementation of Domingo Ferrer's a New Privacy Homomorphism
 (DF a New PH) in Securing Wireless Sensor Networks (WSN)
 Levent Ertaul and Johan H. Yang
 California State University, East Bay, Hayward, California, USA
- 02:20 - 02:40pm: A Cryptographic Protocol for E-Voting Systems
 Kevin Daimi, Ya-Chin Hsu, Yu-Ping Lin, and Lingyun Zheng
 University of Detroit Mercy, Detroit, Michigan, USA
- 02:40 - 03:00pm: Real Time Cryptanalysis of Unsystematic Cipher
 Esen Akkemik and Orhun Kara
 Tubitak, UEKAE, Turkey

03:00 - 03:40pm: **DISCUSSION SESSION B-SAM (Refreshments will be available)**
July 15, 2008 (Tuesday)
(LOCATION: Hallways - Ballrooms 1-5)

- 0. Website Registration Using Link for Privacy
Jong-Hyuk Roh and Seung-Hun Jin; ETRI, Korea
- 0. Comparison of Threshold Proxy Signature Schemes
Kamalpreet Kaur and Harsh Kumar Verma
Dr B R Ambedkar National Institute of Technology, India
- 0. A Framework of Decentralized PKI Key Management Based on Dynamic Trust
Zhiqian Xu and Hai Jiang
Arkansas State University, Arkansas, USA; FedEx Corporation
- 0. Efficient Biometrics Remote User Authentication Scheme
Ming-Jheng Li and Justie Su-Tzu Juan
National Chi Nan University, Nantou, Taiwan
- 0. A Comparison Between Residues of Prime Numbers and Powers of
Two Implementation of the S-Box
Dr. Abdul-Aziz S. Al-Sehibani
Prince Sultan University, Saudi Arabia
- 0. Matrix Cipher and Its Application in Computer Security
Ngoc-Bao Tran and Dinh-Thuc Nguyen
HCM City University of Pedagogy, Vietnam
- 0. Authentication Architecture Based on Crypto-Biometric Systems
Parman Sukarno and Nandita Bhattacharjee
Monash University, Australia

- SESSION 8-SAM: ALGORITHMS AND PROTOCOLS**
Chairs: Mohamed Watfa and Chung-Han Chen
American University of Beirut, Lebanon
Tuskegee University, USA
July 15, 2008 (Tuesday); 03:40pm - 04:40pm
(LOCATION: Ballroom 8)
- 03:40 - 04:00pm: Synchronous Key Generation from Chaotic Systems
Anthony Weitekamp, Dulal Kar, Mario Garcia, and George Tintera
Texas A&M University-Corpus Christi, USA
- 04:00 - 04:20pm: Memetic and Genetic Algorithms: A Comparison Between Two
Approaches for the Cryptanalysis of Simplified Data Encryption
Standard Algorithm
Poonam Garg and Atul Garg
Inst. of Management Tech., India; Tata Consulting Services Ltd, India
- 04:20 - 04:40pm: A Scalable Security Protocol for Wireless Sensor Networks
Mohamed Khalil Watfa, Marwa El-Ghali, and Hiba Halabi
American University of Beirut, Lebanon

SESSION 9-SAM: DEVELOPING INFORMATION SECURITY APPLICATIONS FOR ADVERSARIAL ENVIRONMENTS
Chair: Dr. Mehran Asadi, West Chester University of Pennsylvania, PA, USA
July 15, 2008 (Tuesday); 04:40pm - 06:00pm
(LOCATION: Ballroom 8)

04:40 - 05:00pm: FREE SLOT

05:00 - 05:20pm: Developing Appellations for Lego Robots Using Multiple Platforms
Stanley Perli
West Chester University of Pennsylvania, West Chester, PA, USA

05:20 - 05:40pm: Automatic Formation of Abstract State Space Representations
for Reinforcement Learning Agents
Mehran Asadi
West Chester University of Pennsylvania, West Chester, PA, USA

05:40 - 06:00pm: Design and Implementation Considerations of the SLA Management System
Jun-woo Lee, Eun-jin Ko, Gil-Heang Lee
Electronics and Telecommunications Research Institute, Korea

06:00 - 09:30pm: Tutorials (please see the list of tutorials)

6:45am - 5:00pm: Registration (Second Floor, Conference Lobby: 1-5)

SESSION 10-SAM: APPLICATIONS

Chair: Dr. Robert F. Erbacher, Utah State University, Logan, USA
July 16, 2008 (Wednesday); 08:00am - 10:20am
(LOCATION: Ballroom 6)

08:00 - 08:20am: A Multi-Layered Approach to Botnet Detection
Robert F. Erbacher, Adele Cutler, Pranab Banerjee, and Jim Marshall
Utah State University, USA; SDL, USU Research Foundation, USA

08:20 - 08:40am: Web Spoofing
Ahmad Ghafarian
North Georgia College & State University, Dahlonega, Georgia, USA

08:40 - 09:00am: Steps for Improving Data Comprehension for Digital Security and Forensics
Robert F. Erbacher
Utah State University, USA

09:00 - 09:20am: Multi-Map Orbit Hopping Chaotic Cipher
Xiaowen Zhang, Li Shu, and Ke Tang
College of Staten Island, City University of New York (CUNY), USA;
Sichuan University, Sichuan, P. R. China;
The City University of New York (CUNY), New York, USA

09:20 - 09:40am: Combining the SMTP Tar Pit Simulator with White Listing
Tobias Eggendorfer
Institut fuer Technik Intelligenter Systeme (ITIS) e. V.,
Aninstitut der Universitaet der Bundeswehr Muenchen, Germany

09:40 - 10:00am: FREE SLOT

10:00 - 10:20am: A Client-Server Approach to Capture Web Browsing History
Scott Peterson and Ray Kresman
Bowling Green State University, USA

10:20 - 10:40am: BREAK

SESSION 11-SAM: INFORMATION SECURITY

Chair: Mehrdad S. Sharbaf, Sharbaf & Associates, USA
July 16, 2008 (Wednesday); 10:40am - 12:20pm
(LOCATION: Ballroom 7)

10:40 - 11:00am: FREE SLOT

11:00 - 11:20am: Forensic Protocol Filtering of Phone Managers
Wayne Jansen, Aurelien Delaitre, and Wayne Jansen
NIST, Gaithersburg, Maryland, USA

11:20 - 11:40am: Conceptual Modeling of Information Systems for IT-Risk
Management - Towards an Approach Based on Process Models
Heinz Lothar Grob, Gereon Strauch, and Christian Buddendick
European Research Center for Information Systems,
University of Muenster, Germany

11:40 - 12:00pm: Raising Awareness in Information Security: Everyone Should Participate
Ilze Murane
University of Latvia, Latvia

12:00 - 12:20pm: On Providing Automatic Parental Consent over Information
Collection from Children
Karthik Channakeshava, Kaigui Bian, Michael Hsiao, Jung-Min Park,
Robert Crossler, France Belanger, Payal Aggarwal, and Janine Hiller
Virginia Tech, USA

12:20 - 01:20pm: **LUNCH (On Your Own)**

SESSION 12-SAM: ACCESS CONTROL AND SIGNATURES + TRUST MODELS + APPLICATIONS

Chairs: Dr. Levent Ertaul and Dr. Jia Di
California State University, East Bay, USA
University of Arkansas, Fayetteville, USA
July 16, 2008 (Wednesday); 01:20pm - 03:00pm
(LOCATION: Ballroom 6)

01:20 - 01:40pm: Physical Access Control with Biometric Keys
Masakatsu Nishigaki and Yoichi Shibata
Shizuoka University, Hamamatsu, Japan

01:40 - 02:00pm: Service Independent Access Control Architecture for User
Generated Content (UGC)
Akira Yamada, Ayumu Kubota, and Yutaka Miyake
KDDI R&D Laboratories Inc., Japan

02:00 - 02:20pm: FREE SLOT

02:20 - 02:40pm: Managing Diversity in Networks
Abdulrahman Alarifi
College of Telecom and Information, Saudi Arabia

02:40 - 03:00pm: FREE SLOT

**03:00 - 03:40pm: DISCUSSION SESSION C-SAM (Refreshments will be available)
July 16, 2008 (Wednesday)
(LOCATION: Hallways - Ballrooms 1-5)**

- O. Towards a Mobile Applications Security Approach
Sofien Beji and Nabil El Kadhi
National School of CS, Tunisia; L.E.R.I.A. Lab. Paris, France
- O. Using Data Mining Technique (MAFIA) on Suggested Stego
Database for Improving Staganography Usage
Hilal Mohammed Yousif Al-Bayatti, Soukaena Hassan Hashem,
and Mohammad Alaa Hussain
Univ. Manama- Kingdom of Bahrain, Bahrain; Univ. of Tech. Baghdad, Iraq
- O. An Adaptive Coding Algorithm for Secret Transmission of Information
C. Obimbo
University of Guelph, Canada
- O. An Image-Based Website User Authentication Mechanism Using Smart Cards
Mohammed Misbahuddin, P. Premchand, and A. Govardhan
Osmania University, India
- O. Framework Proposal for Sender's Authentication
Pedro Junior Ashidani, Jamil Salem Barbar, Luis Fernando Faina,
and Italo Tiago da Cunha
Federal University of Uberlandia UFU, Brazil

03:40 - 06:00pm: During this period, SAM'08 attendees are encouraged to participate in sessions belonging to GCA'08, ICWN'08, ICOMP'08, SWS'08, IKE'08, EEE'08, FECS'08, or CIC'08. These sessions discuss topics that overlap the scope of SAM'08.

06:00 - 09:30pm: Tutorials (please see the list of tutorials)

6:45am - 5:00pm: Registration (Second Floor, Conference Lobby: 1-5)

SESSION 13-SAM: CRYPTOGRAPHY

Chairs: Mehrdad S. Sharbaf and S. Giftson Selladurai
Sharbaf & Associates, USA

Anna University, India

July 17, 2008 (Thursday); 08:00am - 09:00am

(LOCATION: Ballroom 6)

08:00 - 08:20am: A Fast FPGA Implementation of Tate Pairing in Cryptography
over Binary Field

Jian Huang and Hao Li

University of Central Florida, Orlando, Florida, USA;

University of North Texas, Denton, Texas, USA

08:20 - 08:40am: Using a PC Camera to Generate Cryptographically Strong Random Numbers

Rigan Ap-apid

De La Salle University, Philippines

08:40 - 09:00am: Exploration of Quantum Cryptography in Network Security: The
Case Study of The DARPA Quantum Cryptography Network

Mehrdad S. Sharbaf

Nova Southeastern University, Fort Lauderdale, Florida, USA

- SESSION 14-SAM: AUTHENTICATION**
Chairs: Mark D. Bedworth and S. Giftson Selladurai
CTO, PINoptic Ltd., Newcastle upon Tyne, United Kingdom
Anna University, India
July 17, 2008 (Thursday); 09:00am - 10:20am
(LOCATION: Ballroom 6)
- 09:00 - 09:20am: Incremental Fingerprint Recognition Model for Distributed Authentication
Qikan Fang and Nandita Bhattacharjee
Monash University, Clayton, Victoria, Australia
- 09:20 - 09:40am: FREE SLOT
- 09:40 - 10:00am: A Method of Automatic User Authentication by Fulltime Monitoring
of Keystroke Timings
Masanori Nakakuni, Hiroshi Dozono, and Eisuke Ito
University of Miyazaki, Japan
- 10:00 - 10:20am: Electronic Fingerprinting Ownership Transfer
Senthilkumar Chinnappa Gounder Periaswamy, Dale R. Thompson, and Jia Di
University of Arkansas, USA
- 10:20 - 10:40am: BREAK
- 10:40a - 06:00p: **During this period, SAM'08 attendees are encouraged to participate in sessions belonging to GCA'08, ICWN'08, ICOMP'08, SWWS'08, IKE'08, EEE'08, FECS'08, or CIC'08. These sessions discuss topics that overlap the scope of SAM'08.**

SERP'08 CONFERENCE SCHEDULE

The 2008 International Conference on Software Engineering Research and Practice

Monte Carlo Resort, Las Vegas, Nevada, July 14-17, 2008

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July 13

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- 08:30 - 08:45am: WORLDCOMP'08 Opening Remarks
Prof. Hamid R. Arabnia (General Chair & Coordinator)
University of Georgia, Georgia, USA
(LOCATION: Lance Burton Theater)
- 08:45 - 09:35am: Keynote Lecture 1:
The Parallel Computing Landscape: A Berkeley View 2.0
Prof. David A. Patterson
Pardee Prof. of CS; Director, RAD Lab & Par Lab; Past
President, ACM; Member, National Academy of Engineering;
Member, National Academy of Sciences; Fellow of IEEE, ACM,
& AAAS; University of California at Berkeley.
(LOCATION: Lance Burton Theater)
- 09:40 - 10:25am: Keynote Lecture 2:
Searching in the "Real World"
Prof. Ophir Frieder
The Royden B. Davis, SJ, Chair in Interdisciplinary
Studies at Georgetown University; IITRI Chair Professor
of CS at Illinois Institute of Technology; Director,
Information Retrieval lab; Fellow of IEEE, ACM, and AAAS
(LOCATION: Lance Burton Theater)
- 10:30 - 11:15am: Keynote Lecture 3:
Achieving your Dreams
Anousheh Ansari
CEO, Chairman and Co-founder of Prodea Systems, Inc., USA;
Space Ambassador
(LOCATION: Lance Burton Theater)
- 11:15a - 12:00p: Keynote Lecture 4:
Dimensions in Reconfigurable Computing: A New Wave in
Electronic System Designs
Chris Phillips
Vice President of Engineering at ElementCXI, USA
(LOCATION: Lance Burton Theater)
- 12:00 - 12:40pm: LUNCH (On Your Own)

**12:40 - 01:20pm: DISCUSSION SESSION A-SERP (Refreshments will be available)
July 14 (Monday)
(LOCATION: Hallways - Ballrooms 1-5)**

- O. Queue Design and Implementation Based on Service Level of NQS
Young-Joo Lee, Chan-Yeol Park, Sang-Dong Lee, and Joong-Kwon Kim
Korea Institute of Science of Technology Information, Taejon, Korea
- O. Agile Development: Do Advantages Outweigh Short Comings?
Olayemi Olagbegi and Hisham M. Haddad
Kennesaw State University, USA
- O. Quality Evaluation of Web-Sites of Indian e-Commerce Domain
Priyanka Tripathi, M Kumar, Namita Shrivastava
Maulana Azad National Institute of Technology, India
- O. Assessment and Measurement Based Framework to Improve Productivity
and Predictability in Engineering Projects
Annie Abraham, Raghu Subramanian and Rose Neena Tom
HCL Technologies Limited, India

**01:20 - 02:20pm: KEYNOTE:
A Formal Framework for Software System Modeling, Analysis and Realization
Xudong He; Florida International University, Miami, Florida, USA**

- SESSION 1-SERP: INTEGRATING HUMAN FACTORS IN COMPUTING TECHNOLOGIES**
Chair: Dr. Vincent Schmidt, Wright Patterson Air Force Base/AFB, USA
July 14, 2008 (Monday); 02:40pm - 04:20pm
(LOCATION: Ballroom 8)
- 02:20 - 02:40pm: Introduction to Human Factors Issues for Computing Professionals
Vincent Schmidt
Wright Patterson Air Force Base (AFB), Ohio, USA
- 02:40 - 03:00pm: Eliciting Expectations to Support Initial Trust in Systems
Janet E. Miller
Air Force Research Laboratory, Wright Patterson AFB, Ohio, USA
- 03:00 - 03:20pm: BREAK**
- 03:20 - 03:40pm: Integrating Cognition into System Design
David O'Malley, Jon Zall, John Colombi, and Joe Carl
Air Force Research Laboratory, Wright Patterson AFB, Ohio, USA
- 03:40 - 04:00pm: Cognitive Design Patterns
Christopher R. Hale and Vincent Schmidt
Science Applications International Corporation, Dayton, Ohio, USA
- 04:00 - 04:20pm: Implementing UI Design Patterns as Widget/Templates for GUI Builders
Don West and Vincent Schmidt
Air Force Research Laboratory, Wright Patterson AFB, Ohio, USA

SESSION 2-SERP: CASE STUDIES

Chairs: Dr. Emanuel S. Grant and Dr. Paniti Netinant
University of North Dakota, USA
Bangkok University, Thailand
July 14, 2008 (Monday); 04:20pm - 06:00pm
(LOCATION: Ballroom 8)

- 04:20 - 04:40pm: A Study of Communication Management in Chinese IT Projects
Hareton Leung and Michael Deng
The Hong Kong Polytechnic University, Hong Kong
- 04:40 - 05:00pm: Comments as a Sublanguage: A Study of Comment Grammar and Purpose
Bradley L. Vinz and Letha H. Etzkorn
University of Alabama in Huntsville, Alabama, USA
- 05:00 - 05:20pm: Domain Analysis: A Case Study of Engineering RFID Systems in Supply Chain
Leonardo Barreto Campos and Sergio Donizetti Zorzo
FederalUniversity of Vale do Sao Francisco, Brazil
- 05:20 - 05:40pm: Automated Defect Prevention with Visual Studio Team System:
a Case Study for Software Engineering
Dorota Huizinga, David Phung, and Tae Ryu
California State University, USA; Boeing Corporation, USA
- 05:40 - 06:00pm: Implementing Readers/Writers Problem Using Aspect-Oriented Framework
Paniti Netinant
Bangkok University, Thailand
- 06:00 - 09:00pm: Tutorials (please see the list of tutorials)**
- 09:10 - 11:30pm: CONFERENCE RECEPTION DINNER & BANQUET KEYNOTE - July 14 (Monday)**
High Performance Computing and Computational Intelligence: Link
to the Translational Medicine and Personalized Healthcare
Dr. Jack Y. Yang and Dr. Mary Qu Yang
Harvard University, Massachusetts, USA and
National Human Genome Research Institute, NIH, Bethesda, USA
(LOCATION: Ballrooms 1-5)
-

6:45am - 5:00pm: Registration (Second Floor, Conference Lobby: 1-5)

08:00 - 10:00am: During this period, SERP'08 attendees are encouraged to participate in sessions belonging to SWWS'08, SAM'08, EEE'08, ESA'08, FECS'08, or FCS'08. These sessions discuss topics that overlap the scope of SERP'08.

10:00 - 10:20am: BREAK

SESSION 3-SERP: WEB APPLICATIONS

Chairs: Prof. Mahmood Doroodchi and Mohammad N. Alanazi
Cardinal Stritch University, USA
Kansas State University, Manhattan, USA
July 15, 2008 (Tuesday); 10:20am - 11:20am
(LOCATION: Ballroom 8)

10:20 - 10:40am: Managing Requirements for e-Learning Platforms
Dumitru Dan Burdescu, Marian Cristian Mihaescu, Logofatu Bogdan
University of Craiova, Romania; University of Bucharest, Romania

10:40 - 11:00am: A Framework for Web Application Development
Mahmood Doroodchi and Shima Dastgheib
Cardinal Stritch University, Milwaukee, WI, USA;
Shiraz University, Iran

11:00 - 11:20am: The New Approach to Use Agent to Coordinate Web Services
C. H. Liu, Y. F. Lin, and J. Y. Chen
National Central University, Taiwan

SESSION 4-SERP: SOFTWARE TECHNIQUES AND METHODOLOGIES
Chairs: Prof. Liliana Dobrica and Dr. Young Lee
University Politehnica of Bucharest, Romania
Texas A&M University-Kingsville, USA
July 15, 2008 (Tuesday); 11:20am - 12:20pm
(LOCATION: Ballroom 8)

11:20 - 11:40am: An Approach to Reference Architecture Design for Different
Domains of Embedded Systems
Liliana Dobrica and Eila Niemela
Univ. Politehnica of Bucharest, Romania;
VIT Technical Research Centre of Finland, Finland

11:40 - 12:00pm: Bridges Specifications for Separated Concerns
Agung Fatwanto and Clive Boughton
Australian National University, Australia

12:00 - 12:20pm: Visualization of Software Evolution
Young Lee and Jeong Yang
Texas A&M University-Kingsville, USA

12:20 - 01:20pm: **LUNCH (On Your Own)**

- SESSION 5-SERP: RELIABILITY + REQUIREMENT ENGINEERING**
Chairs: Dr. Anne Hakansson and Dr. Raghu Reddy
Uppsala University, Uppsala, Sweden
Rochester Institute of Technology, USA
July 15, 2008 (Tuesday); 01:20pm - 03:00pm
(LOCATION: Ballroom 8)
- 01:20 - 01:40pm: Combined Code Understanding and Comment Understanding
Bradley L. Vinz and Letha H. Etkorn
University of Alabama in Huntsville, Alabama, USA
- 01:40 - 02:00pm: A Framework and Associated Models for Determining Change Impact
Analysis During Utility Service Provisioning in a Grid Environment
Obeten O. Ekabua and Matthew O. Adigun
University of Zululand, South Africa
- 02:00 - 02:20pm: Application of Software Fault Tree Analysis to an Airport
Ground Control System
M. Towhidnejad, L. Shen, and T. Hilburn
Embry-Riddle Aeronautical University, Daytona Beach, Florida, USA;
Avidyne Corp., Melbourne, Florida, USA
- 02:20 - 02:40pm: Requirement Preparation Before Awarding the Work to Vendor
Puja Sakhuja
Noida-201301, India
- 02:40 - 03:00pm: Invited Paper: Engineering Applications of Software and Hardware
Reliability**
Chandra S. Putcha, Prince Kalia, Frank Pizzano, Gordon Hoskins,
Coy Newton, and Kunal J Kamdar
California State University, Fullerton, California, USA;
NASA Goddard Space Center, USA;
Bastion Technologies Inc., Huntsville, Alabama, USA

**03:00 - 03:40pm: DISCUSSION SESSION B-SERP (Refreshments will be available)
July 15, 2008 (Tuesday)
(LOCATION: Hallways - Ballrooms 1-5)**

- O. An Expert System for PI-Calculus and API-Calculus Automated Reduction
Shahram Rahimi, John Dillard, and Bidyut Gupta
Southern Illinois University, USA
- O. Standardization of Software Cost Estimation Process for Outsourcing
in Pakistan: Statistical Methods Used for Checking Accuracy of
Model Prediction
Syeda Umema Hani, Mumtaz-ul-Imam and Gulam Qadir Memon
Sir Syed University of Engineering and Technology, Pakistan
- O. Integration of Proposed Software Risk Model in Waterfall Process
P K Suri and Manoj Wadhwa
Kurukshetra University, India

03:40 - 06:00pm: During this period, SERP'08 attendees are encouraged to participate in sessions belonging to SWWS'08, SAM'08, EEE'08, ESA'08, FECS'08, or FCS'08. These sessions discuss topics that overlap the scope of SERP'08.

06:00 - 09:30pm: Tutorials (please see the list of tutorials)

6:45am - 5:00pm: Registration (Second Floor, Conference Lobby: 1-5)

SESSION 6-SERP: TESTING AND VALIDATION

Chairs: Dr. Ramin Nasiri and Dr. Emanuel S. Grant
CEO, International IT House FZ LLC, Dubai, UAE
University of North Dakota, USA
July 16, 2008 (Wednesday); 08:00am - 10:20am
(LOCATION: Ballroom 8)

08:00 - 08:20am: Empirical Efficiency Testing for KT-OSS

Dae-Woo Kim and Sang-Ha Kim
 Korea Telecom, Korea; National University, Korea

08:20 - 08:40am: An Integrated Test Environment Process Model to Control Software Failures

Mohan Bheemasenarao and M. H. Samadzadeh
 Trans Atlantic Systems, Inc., USA; Oklahoma State University, USA

08:40 - 09:00am: A Service Oriented Architecture Complexity Metric Based on Statistical Hypothesis Testing

George Dimitoglou and Michael J. Maynard
 Hood College, USA

09:00 - 09:20am: Model-Driven Testing for Mission Critical System Software Applications

Emanuel Grant and Hassan Reza
 University of North Dakota, USA

09:20 - 09:40am: Validating Specifications for Model-Based Testing

Pieter Koopman, Peter Achten and Rinus Plasmeijer
 Radboud University Nijmegen, The Netherlands

09:40 - 10:00am: A Constraint-Based Approach to Verification of Programs with Floating-Point Numbers

Carlos Acosta and Martine Ceberio
 University of Texas at El Paso, USA

10:00 - 10:20am: FREE SLOT

10:20 - 10:40am: BREAK

- SESSION 7-SERP: SOFTWARE MANAGEMENT + CERTIFICATION**
Chairs: Tryggvi Bjorgvinsson and M. Atif Farid
University of Iceland, Iceland
Queens University, Canada
July 16, 2008 (Wednesday); 10:40am - 02:00pm
(LOCATION: Ballroom 8)
- 10:40 - 11:00am: Leveraging a Common Development Framework and Delivery Approaches through Effective Software Management
Gavin O'Brien, Robert Snelick, and Lynne Rosenthal
National Institute of Standards and Technology (NIST), Maryland, USA
- 11:00 - 11:20am: Towards an Information Driven Software Development Life Cycle
Ernest Cachia and Mark Micallef
University of Malta, Malta
- 11:20 - 11:40am: An Approach for Incremental Certification of Software Components
Eyton Ferguson and Ezra Mugisa
University of the West Indies, Jamaica
- 11:40 - 12:00pm: A Comparison of Software Process Models
Lachana Inchaiwong, A.S.M. Sajeev, and Sakgasit Ramingwong
Chiang Mai University, Thailand;
University of New England, Australia
- 12:00 - 12:20pm: Software Architecture Modeling Method in Recursive Design
Agung Fatwanto and Clive Boughton
Australian National University, Australia
- 12:20 - 01:20pm: LUNCH (On Your Own)**
- 01:20 - 01:40pm: A Software Cost Estimation Meta Model for Systematic Reuse Approaches
Sana Ben Abdallah Ben Lamine, Lamia Labed Jilani, and Henda Hajjami Ben Ghezala
Ecole Nationale des Sciences de l'Informatique,
Universitaire la Manouba, Tunisia
- 01:40 - 02:00pm: A Software Maintenance Process Model With Featured-Based Tool and Reliability Metrics
Abdallah Qaisi, Omar Albashir, and Ahmad Sharieh
Amman Arab University, Jordan

- SESSION 8-SERP: SOFTWARE EVOLUTION + SOFTWARE MANAGEMENT**
Chairs: Dr. Ramin Nasiri and Dr. Raghu Reddy
CEO, International IT House FZ LLC, Dubai, UAE
Rochester Institute of Technology, USA
July 16, 2008 (Wednesday); 02:00pm - 03:00pm
(LOCATION: Ballroom 8)
- 02:00 - 02:20pm: Aspect-Oriented Approaches to Model Driven Engineering
Devon M. Simmonds
University of North Carolina at Wilmington, USA
- 02:20 - 02:40pm: On Systematic Design of Service-Oriented Architectures
Benjamin Kanagwa, Ezra K Mugisa, and Th. P. van der Weide
Radboud University Nijmegen, The Netherlands;
University of The West Indies, Jamaica
- 02:40 - 03:00pm: Binary Methods and Parameterized Types in Java: A Conflicting
Point Between Theory and Practice
Cong-Cong Xing; Nicholls State University, LA, USA

**03:00 - 03:40pm: DISCUSSION SESSION C-SERP (Refreshments will be available)
July 16, 2008 (Wednesday)
(LOCATION: Hallways - Ballrooms 1-5)**

- 0. Utilizing Concept Drift for Pervasive Supervision
Matthias Baumgarten, Kieran Greer, Maurice Mulvenna, Kevin Curran,
and Chris Nugent
University of Ulster, UK

- SESSION 9-SERP: EVALUATION + ISSUES RELATED TO THEORY AND PRACTICE**
Chairs: and Dr. Emanuel S. Grant and M. Atif Farid
University of North Dakota, USA
Queens University, Canada
July 16, 2008 (Wednesday); 03:40pm - 06:00pm
(LOCATION: Ballroom 8)
- 03:40 - 04:00pm: Conformance Testing and Interoperability: A Case Study in Healthcare Data Exchange
Leonard Gebase, Robert Snelick, and Mark Skall
National Institute of Standards and Technology (NIST), Maryland, USA
- 04:00 - 04:20pm: Towards a Formal Model for Software Component Composition Using Whole-Part Theory
Phillipa L. Bennett and Ezra K. Mugisa
University of the West Indies, Jamaica, W.I.
- 04:20 - 04:40pm: Applying BSUP to Optimize Riskit Methodology Based on UML 2.0
Ramin Nasiri, Ali Moeini, and Pooya Khosravyan
CEO, International IT House FZ LLC, Dubai, UAE;
Tehran Azad University, Iran; Tehran University, Iran;
Islamic Azad University, Shahrekord, Iran
- 04:40 - 05:00pm: Systematic Test Data Generation for Embedded Software
Justyna Zander-Nowicka, Xuezheng Xiong, and Ina Schieferdecker
MOTION, Fraunhofer Institut - FOKUS, Berlin, Germany;
Technische Universität Berlin, Berlin, Germany
- 05:00 - 05:20pm: Towards the Automatic Generation of Real Time Operating Systems Applying UML/MDA
Yessine Hadj Kacem, Adel Mahfoudhi, Hedi Tmar, and Mohamed Abid
National Engineering School of Sfax, Tunisia;
Science Faculty of Sfax, Tunisia
- 05:20 - 05:40pm: Evaluating the Use of Project Glossaries in Automated Trace Retrieval
Xuchang Zou, Raffaella Settini, Jane Cleland-Huang
DePaul University, Chicago, Illinois, USA
- 05:40 - 06:00pm: Error Detection in Multiple State Diagrams
Mohammad N. Alanazi and David A. Gustafson
Kansas State University, Manhattan, Kansas, USA
- 06:00 - 09:30pm: Tutorials (please see the list of tutorials)**

6:45am - 5:00pm: Registration (Second Floor, Conference Lobby: 1-5)

SESSION 10-SERP: THEORETIC APPROACHES

Chairs: Dr. Raghu Reddy and Dr. Ezra K. Mugisa
Rochester Institute of Technology, USA
University of the West Indies, Jamaica
July 17, 2008 (Thursday); 08:00am - 09:40am
(LOCATION: Ballroom 8)

08:00 - 08:20am: Logical Analysis of DEVS Models Using Z
Mohamed Wassim Trojet, Maamar El-Amine Hamri and Claudia Frydman
Universite Paul Cezanne, France

08:20 - 08:40am: A Top-Down Method for B2B Process Design Using SOA
Mostafa Madiesh and Guido Wirtz
Otto-Friedrich-University Bamberg, Germany

08:40 - 09:00am: Software Complexity for Computer Communication and Sensor
Networks Using Binary Decision Diagrams
Harpreet Singh, Adam Mustapha, Vijay Sharma and Grant R. Gerhart
Wayne State University, USA

09:00 - 09:20am: Model Checking Consistency Between Sequence and State Diagrams
Kuang-Nan Chang
Eastern Kentucky University, USA

09:20 - 09:40am: Qualitative Comparison of B, VDM and Z in Specifying
Requirements of Safety Critical Systems
Ishrat Rahman Sami and Brian Dupee
eShop Works, UK; Southampton Solent University, UK

SESSION 11-SERP: PRODUCT MANAGEMENT

Chairs: Dr. Shahriar Movafaghi and Dr. Manoj Wadhwa
Southern New Hampshire University, USA
Echelon Institute of Technology, India
July 17, 2008 (Thursday); 09:40am - 11:40am
(LOCATION: Ballroom 8)

09:40 - 10:00am: User-Driven Development in a Corporate Environment
Tryggvi Bjorgvinsson and Helgi Thorbergsson
University of Iceland, Iceland

10:00 - 10:20am: An Approach to Software Artefact Specification for
Supporting Product Line Systems
Waraporn Jirapanthong
Dhurakij Pundit University, Thailand

10:20 - 10:40am: BREAK

10:40 - 11:00am: Accuracy of Software Cost Estimation
Hassan Pournaghshband and Shahriar Movafaghi
Southern Polytechnic State University, USA;
Southern New Hampshire University, USA

11:00 - 11:20am: Ensuring the Maturity of Processes During Transition to SOA
T. Peplow, B. J. Dupee, and M. R. Ross
iMeta Technologies Ltd, UK; Southampton Solent University, UK

11:20 - 11:40am: Internal Marketing to Elicit Conceptual Needs for Internal Software
Mark Elkins, Margaret Ross, Geoff Staples, and Brian Dupee
Southampton Solent University, UK

SESSION 12-SERP: SOFTWARE QUALITY + CASE STUDIES

Chairs: Dr. Manoj Wadhwa and Dr. Emanuel S. Grant
Echelon Institute of Technology, India
University of North Dakota, USA
July 17, 2008 (Thursday); 11:40am - 02:20pm
(LOCATION: Ballroom 8)

- 11:40 - 12:00pm: Modeling Software Systems with Decidable Semantics: Implications on Software Quality Assurance
 Kenneth M. Anderson and Steven Bucuvalas
 University of Colorado, Boulder, Colorado, USA;
 ioSemantics LLC, Buffalo Creek, Colorado, USA
- 12:00 - 12:20pm: Software Quality Assessment and Project Risk Management Based on Bayesian Belief Networks
 Kanaan A. Faisal
 King Fahd University of Petroleum and Minerals, Saudi Arabia
- 12:20 - 12:40pm: Application of Open Hypermedia to Military Software
 Kenneth M. Anderson
 University of Colorado, Boulder, Colorado, USA
- 12:40 - 01:20pm: LUNCH (On Your Own)**
- 01:20 - 01:40pm: Continuous Quality Assurance for Performance Degradation in Evolving Software Systems and MYSQL- QOS
 N. Malmurugan, J. Prabhu, and G. Gunasekaran
 Sathyabama University, India
- 01:40 - 02:00pm: Practically Relevant Quality Criteria for Requirements Documents
 Tobias Simon, Jonathan Streit, and Markus Pizka
 itestra GmbH, Kaufering, Germany
- 02:00 - 02:20pm: Specifying Correct Protocols of Multithreaded Java-Like Programs
 Clement Hurlin
 INRIA Sophia Antipolis, Mediterranee, France

SESSION 13-SERP: SOFTWARE TECHNIQUES: ASPECT/SERVICE ORIENTED PROGRAMMING/ARCHITECTURE

Chairs: Prof. Kazuaki Maeda and Rose Neena Tom

Chubu University, Japan

HCL Technologies Ltd, India

July 17, 2008 (Thursday); 02:20pm - 03:00pm

(LOCATION: Ballroom 8)

- 02:20 - 02:40pm: A Garbage Collector Prototype for C++ Applications Based on Mark and Compact Using Aspect Oriented Programming
Hamid Mcheick, Aymen Sioud, Abdenour Bouzouane, & Rakan Mcheik
University of Quebec at Chicoutimi, Canada
- 02:40 - 03:00pm: On Systematic Design of Service-Oriented Architectures
Benjamin Kanagwa, Ezra K Mugisa, and Th. P. van der Weide
Radboud University Nijmegen, The Netherlands and
University of The West Indies, Jamaica

03:00 - 03:40pm: **DISCUSSION SESSION D-SERP (Refreshments will be available)**
July 17, 2008 (Thursday)
(LOCATION: Hallways - Ballrooms 1-5)

- 0. Process Maturity Model for Software Product Lines for SMEs
Muthu Ramachandran and Sathya Ganeshan
Leeds Metropolitan University, UK
- 0. Domain Engineering Method for Product Line Development
Muthu Ramachandran and Sathya Ganeshan
Leeds Metropolitan University, UK
- 0. Using XML Trees to Represent GUI States
Izzat Alsmadi
Yarmouk University, Jordan
- 0. A Comparison of Object-Oriented Languages in Software Engineering
Mohammad Reza Nami, Sanaz Hamdollahzadeh, and Fereshteh Kashanian
Islamic Azad University, Shahre-rey Branch, Iran
- 0. Use of Data Recharging for Personal Information Environment
Atif Farid Mohammad
Queens University, Canada
- 0. Software Measurement Needs Its Own Theory
Kehinde O. Jolayemi and Austin Melton
Kent State University, USA

- SESSION 14-SERP: SOFTWARE TECHNIQUES - continued ...**
Chairs: Prof. Kazuaki Maeda and Dr. Ezra K. Mugisa
Chubu University, Japan
University of the West Indies, Jamaica
July 17, 2008 (Thursday); 03:40pm - 04:20pm
(LOCATION: Ballroom 8)
- 03:40 - 04:00pm: Mapping Data-Flow Dependencies onto Distributed Embedded Systems
Stefan Kugele and Wolfgang Haberl
Technische Universitat Munchen, Garching, Germany;
Technische Universitat Darmstadt, Darmstadt, Germany
- 04:00 - 04:20pm: Agile Intelligence - Principle Methods and Mechanics
Koji Matsumoto and Martin Eggenberger
Delta Dental of California, San Francisco, California, USA;
Quanis Inc., San Francisco, California, USA

SESSION 15-SERP: TOOLS AND LEGACY SYSTEMS

Chairs: Dr. Brian Dupee and Dr. Raghu Reddy
Southampton Solent University, UK
Rochester Institute of Technology, USA
July 17, 2008 (Thursday); 04:20pm - 06:00pm
(LOCATION: Ballroom 8)

- 04:20 - 04:40pm: Unit Metrics - A Tool to Support Refactoring in Agile Software Development
Martin Kunz, Niko Zenker, Steffen Mencke, Reiner R. Dumke
University of Magdeburg, Germany
- 04:40 - 05:00pm: A Library-Based Approach to Translating OCL Constraints to JML Assertions for Runtime Checking
Carmen Avila, Guillermo Flores, Jr., and Yoonsik Cheon
The University of Texas at El Paso, USA
- 05:00 - 05:20pm: The Automatic MDA (Model Driven Architecture) Transformations for Heterogeneous Embedded Systems
Woo Yeol Kim, Hyun Seung Son, and R. Young Chul Kim
Hongik University, Korea
- 05:20 - 05:40pm: Dynamical Proxy for Dynamic Services
Artur Tomusiak, Kai Qian, and Taixi Xu
Southern Polytechnic State University, Marietta, Georgia, USA
- 05:40 - 06:00pm: FREE SLOT

SWWS'08 CONFERENCE SCHEDULE

The 2008 International Conference on Semantic Web and Web Services

Monte Carlo Resort, Las Vegas, Nevada, July 14-17, 2008

Note 1:

There are a number of other sessions (not listed as part of SWWS'08 schedule) that are of significant interest to SWWS conference participants (sessions belonging to other joint conferences in this event.) Therefore, you are encouraged to also check the schedules for other joint conferences. In particular, some sessions in ICAI'08, ITSL'08, BIOCOMP'08, ICOMP'08, SAM'08, DMIN'08, IKE'08, EEE'08, and FECS'08, discuss topics that are within the scope of SWWS; these have been scheduled so that SWWS attendees can also participate in them.

Note 2:

Each conference is divided into a number of topical sessions. These sessions are not necessarily scheduled in the same room/location. Therefore, conference attendees are to check the location of the session(s) they wish to attend - The conference room numbers appear in this document.

July 13

03:00 - 09:00pm: REGISTRATION (Second Floor, Conference Lobby; 1-5)

- 6:30am - 5:00pm: Registration (Second Floor, Conference Lobby: 1-5)
- 08:30 - 08:45am: **WORLDCOMP'08 Opening Remarks**
Prof. Hamid R. Arabnia (General Chair & Coordinator)
University of Georgia, Georgia, USA
(LOCATION: Lance Burton Theater)
- 08:45 - 09:35am: **Keynote Lecture 1:**
The Parallel Computing Landscape: A Berkeley View 2.0
Prof. David A. Patterson
Pardee Prof. of CS; Director, RAD Lab & Par Lab; Past
President, ACM; Member, National Academy of Engineering;
Member, National Academy of Sciences; Fellow of IEEE, ACM,
& AAAS; University of California at Berkeley.
(LOCATION: Lance Burton Theater)
- 09:40 - 10:25am: **Keynote Lecture 2:**
Searching in the "Real World"
Prof. Ophir Frieder
The Royden B. Davis, SJ, Chair in Interdisciplinary
Studies at Georgetown University; IITRI Chair Professor
of CS at Illinois Institute of Technology; Director,
Information Retrieval lab; Fellow of IEEE, ACM, and AAAS
(LOCATION: Lance Burton Theater)
- 10:30 - 11:15am: **Keynote Lecture 3:**
Achieving your Dreams
Anousheh Ansari
CEO, Chairman and Co-founder of Prodea Systems, Inc., USA;
Space Ambassador
(LOCATION: Lance Burton Theater)
- 11:15a - 12:00p: **Keynote Lecture 4:**
**Dimensions in Reconfigurable Computing: A New Wave in
Electronic System Designs**
Chris Phillips
Vice President of Engineering at ElementCXI, USA
(LOCATION: Lance Burton Theater)
- 12:00 - 12:40pm: **LUNCH (On Your Own)**
- 12:40 - 04:00pm: **During this period, SWWS'08 attendees are encouraged to participate
in sessions belonging to ICAI'08, ITSL'08, BIOCAMP'08, ICOMP'08,
SAM'08, DMIN'08, IKE'08, EEE'08, or FECS'08. These sessions
discuss topics that overlap the scope of SWWS'08.**

- SESSION 1-SWWS: SEMANTIC WEB**
Chair: Prof. Andy Marsh, United Kingdom
July 14, 2008 (Monday); 04:00pm - 05:00pm
(LOCATION: Copper Room)
- 04:00 - 04:20pm:** Semantic Discovery and Selection: A QoD-Aware, Hybrid Model
Jose Maria Garcia, David Ruiz, and Antonio Ruiz-Cortés
Universidad de Sevilla, Sevilla Spain
- 04:20 - 04:40pm:** Semantic Keyword Detection of Web Document
Myungwon Hwang, Hongryoul Yi, Junho Choi, Wonpil Kim, and Pankoo Kim
Chosun University, Korea; Chosun College, Korea
- 04:40 - 05:00pm:** Product Family Modeling Based on Semantic Web
Hok-Guan Jo, Geun-Hwa Song, and Taioun Kim
Kyungsung University, Busan, Korea
- 05:00 - 06:00pm:** During this period, SWWS'08 attendees are encouraged to participate in sessions belonging to ICAI'08, ITSL'08, BIOCOMP'08, ICOMP'08, SAM'08, DMIN'08, IKE'08, EEE'08, or FECS'08. These sessions discuss topics that overlap the scope of SWWS'08.
- 06:00 - 09:00pm:** Tutorials (please see the list of tutorials)
- 09:10 - 11:30pm:** CONFERENCE RECEPTION DINNER & BANQUET KEYNOTE - July 14 (Monday)
High Performance Computing and Computational Intelligence: Link to the Translational Medicine and Personalized Healthcare
Dr. Jack Y. Yang and Dr. Mary Qu Yang
Harvard University, Massachusetts, USA and
National Human Genome Research Institute, NIH, Bethesda, USA
(LOCATION: Ballrooms 1-5)

- 6:45am - 5:00pm: Registration (Second Floor, Conference Lobby: 1-5)**
- 08:00 - 10:40am: During this period, SWWS'08 attendees are encouraged to participate in sessions belonging to ICAI'08, ITSL'08, BIOCOMP'08, ICOMP'08, SAM'08, DMIN'08, IKE'08, EEE'08, or FECS'08. These sessions discuss topics that overlap the scope of SWWS'08.**
- SESSION 2-SWWS: ALGORITHMS + VISUALIZATION, MODELING AND EVALUATION**
Chair: Mike Rees, United Kingdom
July 15, 2008 (Tuesday); 10:40am - 12:40pm
(LOCATION: Copper Room)
- 10:40 - 11:00am: Constrained Regular Expressions in SPARQL**
 Faisal Alkhateeb, Jean-Francois Baget, and Jerome Euzenat
 INRIA Rhone-Alpes and LIG, France;
 INRIA Sophia-Antipolis and LIRMM, France
- 11:00 - 11:20am: Context Based Selection of User Generated Content**
 Matthias Strobbe, Olivier Van Laere, Bruno Volckaert,
 Filip De Turck, Bart Dhoedt, and Piet Demeester
 Ghent University - IBBT, Gent, Belgium
- 11:20 - 11:40am: Quick Ontology Mapping Algorithm for Distributed Environments**
 Isaac Lera, Carlos Juiz and Ramon Puigjaner
 Universitat de les Illes Balears, Spain
- 11:40 - 12:00pm: Analysis of Chronological Tag Dependency in Folksonomy**
 Sho Kawanaka and Hiroyuki Sato
 University of Tokyo, Japan
- 12:00 - 12:20pm: Intelligent Favorite List by Using kNN and Nave Bayes Classifier**
 Ismail Hmeidi, Musa I. Swedan, and Hassan Najadat
 Jordan University for Science and Technology, Jordan
- 12:20 - 12:40pm: NOAA Coastal Sites: An N-tiered Service-Oriented Approach Towards Visualization of Meteorology and Water Levels Data**
 Manirupa Das and M. Pauline Baker
 Visualization and Interactive Spaces Lab, Pervasive Technology Labs, IUPUI, Indianapolis, USA
- 12:40 - 01:40pm: LUNCH (On Your Own)**
- 01:40 - 06:00pm: During this period, SWWS'08 attendees are encouraged to participate in sessions belonging to ICAI'08, ITSL'08, BIOCOMP'08, ICOMP'08, SAM'08, DMIN'08, IKE'08, EEE'08, or FECS'08. These sessions discuss topics that overlap the scope of SWWS'08.**
- 06:00 - 09:30pm: Tutorials (please see the list of tutorials)**
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6:45am - 5:00pm: Registration (Second Floor, Conference Lobby: 1-5)

SESSION 3-SWS: ONTOLOGIES AND METHODOLOGIES
Chair: Prof. Peter Bret, United Kingdom
July 16, 2008 (Wednesday); 08:00am - 10:20am
(LOCATION: Copper Room)

08:00 - 08:20am: A User Guided Iterative Alignment Approach for Ontology Mapping
Danny Chen, John Lastusky, Jim Starz, and Steve Hookway
Lockheed Martin Advanced Technology Lab., California, USA;
Lockheed Martin Advanced Technology Lab., Arlington, USA

08:20 - 08:40am: A New Approach to Managing the Evolution of OWL Ontologies
Chuming Chen and Manton M. Matthews
University of South Carolina, USA

08:40 - 09:00am: Metrics for Evaluating the Semantic Implications of Changes
in Evolving Ontologies
Chuming Chen and Manton M. Matthews
University of South Carolina, USA

09:00 - 09:20am: Role of Ontology Editors: Ontology Design
Kamidi Suresh, Sanjay Kumar Malik, Nupur Prakash, SAM Rizvi
University School of Information Technology, India

09:20 - 09:40am: Linking Ontologies with a Document Collection
Umar Memon
Sukkur Institute of Business Administration, Pakistan

09:40 - 10:00am: FREE SLOT

10:00 - 10:20am: Embedding Matrices Ontology into Math Software Engines to
Support Reasoning and Mission Oriented Calculation in
Developing Semantic Agents
A. Elci, B. Rahnama, and K. Bahreini
Eastern Mediterranean University, Turkey

10:20 - 10:40am: BREAK

- SESSION 4-SWWS: HoIP - HEALTHCARE OVER INTERNET PROTOCOL**
Chair: Prof. Andy Marsh, United Kingdom
July 16, 2008 (Wednesday); 10:40am - 12:00noon
(LOCATION: Copper Room)
- 10:40 - 11:00am: A Novel Grid-Based Platform for the Care of Taiwan's Lung Cancer Patients
Shu-Hui Hung, Chung-Chen Tseng, Shin-Hung Lin, Jen-Hsin Chen, Huang-Shen Chang, and Wen-Te Liu
National Cheng-Kung University, Taiwan;
National Center for High-Performance Computing, Taiwan;
Chen-Gung Memorial Hospital, Taiwan
- 11:00 - 11:20am: Web Services for Optimal Clinical Support Systems
Lucio Grandinetti and Ornella Pisacane
University of Calabria, Italy
- 11:20 - 11:40am: A Case Study in Designing a Medical Information Delivery System
Mark E. Ogram
Arizona State Bar, Texas State Bar, USA
- 11:40 - 12:00pm: Development of the Distributive Method Towards Sensing Tactile Information in Healthcare
Peter N. Brett and Xianghong Ma
Aston University, UK

- SESSION 5-SWWS: ACCESS CONTROL AND LICENSING**
Chair: Denis Carroll, United Kingdom
July 16, 2008 (Wednesday); 12:00pm - 12:40pm
(LOCATION: Copper Room)
- 12:00 - 12:20pm: Geosemantics in Local Authority Licensing
Aled Greenhalgh, Phil James, and David Fairbairn
Newcastle University, Newcastle upon Tyne, UK
- 12:20 - 12:40pm: Service Oriented Architecture of Intranet User-Analytics
Peter Geczy, Noriaki Izumi, Shotaro Akaho, Koiti Hasida
The National Inst. of Advanced Industrial Sc. & Tech., Japan
- 12:40 - 01:00pm: LUNCH (On Your Own)**
- 12:40 - 03:00pm: During this period, SWWS'08 attendees are encouraged to participate in sessions belonging to ICAI'08, ITSL'08, BIOCOMP'08, ICOMP'08, SAM'08, DMIN'08, IKE'08, EEE'08, or FECS'08. These sessions discuss topics that overlap the scope of SWWS'08.**

**03:00 - 03:40pm: DISCUSSION SESSION A-SWS (Refreshments will be available)
July 16, 2008 (Wednesday)
(LOCATION: Hallways - Ballrooms 1-5)**

- O. Patient 2.0 Empowerment
Lodewijk Bos, Andy Marsh, Denis Carroll, Sanjeev Gupta, and Mike Rees
Int'l Council on Medical & Care Compunetics; VMW Solutions Ltd, UK;
Univ. of Westminster, UK; Commissioning Support Services (NHS)
- O. Multi-Modal Health and Activity Monitoring Framework
for Elderly People at Home
Ross Velentzas, Andy Marsh, Christos Biniaris, Jeremie Leguay,
Bertrand Ravera, Mario Lopez-Ramos, and Eric Robert
VMW Solutions Ltd, Hampshire, UK;
THALES Communications, Colombes, France
- O. A Distributed Synchronized Computational Model for Data Management
in the Self-Care Marketplace
Christos G. Biniaris and Andrew J. Marsh
VMW Solutions Ltd, Hampshire, UK;
University of Westminster, London, UK
- O. A Decision Support Resource as a Kernel of a Semantic Web
Based Platform Oriented to Heart Failure
C. Colantonio, M. Martinelli, D. Moroni, O. Salvetti,
A. Candelieri, D. Conforti, F. Peticone, A. Sciacqua,
C. Biniaris, and A. Marsh
Italian National Research Council, Italy;
University of Calabria, Italy;
University "Magna Graecia", Italy;
VMW Solutions Ltd, Hampshire, UK
- O. An Enhanced Presence Management System for Healthcare Services
A. Marsh and C. Biniaris
VMW Solutions Ltd, Hampshire, UK;
University of Westminster, London, UK
- O. Web Services Security Using Genetic Algorithm
Semmache Nabila and Selka Sadika
University Of the Sciences And The Technology USTO, Algeria

03:40 - 06:00pm: During this period, SWS'08 attendees are encouraged to participate in sessions belonging to ICAI'08, ITSL'08, BIOCAMP'08, ICOMP'08, SAM'08, DMIN'08, IKE'08, EEE'08, or FECS'08. These sessions discuss topics that overlap the scope of SWS'08.

06:00 - 09:30pm: Tutorials (please see the list of tutorials)

6:45am - 5:00pm: Registration (Second Floor, Conference Lobby: 1-5)

SESSION 6-SWWS: WEB SERVICES

**Chair: Prof. Andy Marsh, United Kingdom
July 17, 2008 (Thursday); 08:00am - 09:40pm
(LOCATION: Copper Room)**

- 08:00 - 08:20am: A Web Service Interface for an Unattended Ground Sparse Sensor Detector
David J. Russomanno, Yury Trittenko, and Qiu Qizhi
The University of Memphis, Memphis, Tennessee, USA
- 08:20 - 08:40am: J2ME Based Tool for Interaction with Web Services
Shoaib G. M. Khan, S. Vadivel and Sujala Shetty
BITS,Pilani-Dubai Campus, UAE
- 08:40 - 09:00am: Strategic Web Service Designing for Land Monitoring Portals Based on AJAX
Kiwon Lee
Hansung University, Korea
- 09:00 - 09:20am: Online Movie Rentals Using Web Services (E-Commerce Application for Mobile Devices)
Ronnie Koshy, S. Vadivel and Sujala Shetty
Lowa state university, USA; BITS,Pilani-Dubai Campus, UAE
- 09:20 - 09:40am: An Approach for Web Service Test Case Generation Based on Web Service Semantics
Siripol Noikajana and Taratip Suwannasart
Chulalongkorn University, Thailand

SESSION 7-SWWS: ACCESS CONTROL AND LICENSING
Chair: Denis Carroll, United Kingdom
July 17, 2008 (Thursday); 09:40am - 10:00am
(LOCATION: Copper Room)

09:40 - 10:00am: FREE SLOT

10:00 - 10:40am: BREAK

10:40a - 12:00p: During this period, SWWS'08 attendees are encouraged to participate in sessions belonging to ICAI'08, ITSL'08, BIOCAMP'08, ICOMP'08, SAM'08, DMIN'08, IKE'08, EEE'08, or FECS'08. These sessions discuss topics that overlap the scope of SWWS'08.

- SESSION 8-SWWS: VISUALIZATION, MODELING AND EVALUATION**
Chair: Mike Rees, United Kingdom
July 17, 2008 (Thursday); 12:00noon - 01:00pm
(LOCATION: Copper Room)
- 12:00 - 12:20pm: WS-CDL Creator: A New Tool for Modeling WS-CDL Using BPMN
Mostafa Madiesh and Guido Wirtz
Otto-Friedrich Universitat Bamberg, Bamberg, Germany
- 12:20 - 12:40pm: Mapping the Genome of Human Intention
Martin Burley and Branton Kenton-Dau
Center for Systems Learning, New Zealand
- 12:40 - 01:00pm: A Webometrics Analysis Between Taiwan and China Academic
Web by Sitation Analysis
Chwen-Tzeng Su and Lung Huei
National Yunlin University of Science and Technology, Taiwan
- 01:00 - 02:00pm: LUNCH (On Your Own)
- 02:00 - 03:00pm: During this period, SWWS'08 attendees are encouraged to participate in sessions belonging to ICAI'08, ITSL'08, BIOCOMP'08, ICOMP'08, SAM'08, DMIN'08, IKE'08, EEE'08, or FECS'08. These sessions discuss topics that overlap the scope of SWWS'08.

**03:00 - 03:40pm: DISCUSSION SESSION B-SWS (Refreshments will be available)
July 17, 2008 (Thursday)
(LOCATION: Hallways - Ballrooms 1-5)**

- O. Adopting DataGuides to RDF Databases
Dominic Batre, Andre Hoing, Matthias Hovestadt, Odej Kao,
and Ulf Rerrer-Brusch
Technische Universitat Berlin, Germany
- O. Dynamic Knowledge in DHT Based RDF Stores
Dominic Batre, Felix Heine, Andre Hoing, Matthias Hovestadt,
Odej Kao, and Christoph Liebetrueth
Technische Universitat Berlin, Germany
- O. A Hybrid Approach for Ontology Mapping
Joumana Dargham and Elie Abou Fares
American University of Beirut, Lebanon

03:40 - 06:00pm: During this period, SWS'08 attendees are encouraged to participate in sessions belonging to ICAI'08, ITSL'08, BIOCOMP'08, ICOMP'08, SAM'08, DMIN'08, IKE'08, EEE'08, or FECS'08. These sessions discuss topics that overlap the scope of SWS'08.