The IASTED International Conference on
Engineering and Applied Science
~EAS 2012~

Engineering Applications for the 21st Century

December 27 – 29, 2012
Colombo, Sri Lanka

General Chair

B. M. Chen
The National University of Singapore, Singapore

Keynote Speakers

"Telemedicine - An Extension of Automated Homecare"

C. W. de Silva
University of British Columbia, Canada
"Novel Developments in Intelligent Systems Approaches to Control of UAV Systems and Formations"

Tong H. Lee
The National University of Singapore, Singapore
"Distributed Information Processing and Control of Multi-agent Networks"

Lihua Xie
Nanyang Technological University, Singapore
"Medical Robotics and Devices: The Challenges and Our Solutions"

Max Meng
The Chinese University of Hong Kong, PR China

Tutorial Session

"Predictive Maintenance - Zero-Breakdown Machines and Service: Fundamental Knowledge, Emerging Technologies and Case Studies"

Dr. Junhong Zhou
SIMTech, Singapore

Tutorial Chair

Prof. Chee Khiang Pang
National University of Singapore, Singapore

Special Session Chair

Assoc. Prof. Marcelo H. Ang Jr.
National University of Singapore, Singapore

Special Session Organizers

"Wireless Communication"

Dr. P. Dananjayan
Pondicherry Engineering College, India
"Computational Information Technology and Signal Processing Circuits"

Prof. K. R. KASHWAN
Sona College of Technology (Autonomous), India

Scope

The topics of interest covered by EAS 2012 included, but were not limited to:

- Agricultural Engineering
- Automation
- Civil Engineering - All Topics
- Computational Mechanics
- Control Systems
- Education
- Fluid Mechanics
- Industrial Electronics
- Information Technologies
- Mechatronics
- Micro-Electro-Mechanical Systems (MEMS)
- Modelling
- Power and Energy
- Solid Mechanics and Materials
- Transportation Systems

- Applied Mechanics
- Biomechanics
- Communication Engineering and Science
- Computer Engineering
- Dynamics and Vibration
- Engineering Design
- Industrial Applications
- Industrial Engineering
- Manufacturing
- Medical Technologies
- Military Applications
- Nano Technologies
- Soft Computing
- Thermodynamics and Heat Transfer

Paper Review

Once a paper is submitted to IASTED, the review process is as follows:

- *Screening Protocol*

A team of IASTED Planners trained in science and engineering conducts the first review of the submitted papers to ensure that all papers are clear, authentic and relevant to the conference material.

- *Expert Review*

Every paper submitted to an IASTED conference is sent to at least three reviewers that include members of the International Program Committee (IPC), members of the Technical Committee, and additional qualified reviewers.

- *Double-Blind review*

Each paper is double-blind reviewed by at least two reviewers, and ideally is double-blind reviewed by three or more reviewers. After the paper has been reviewed, the conference chair examines the paper and the reviewers' comments. Then the conference chair makes the final decision on each paper. We encourage our reviewers to give a detailed account of their decision.