Proceedings of the 6th International Conference on Cooperation and Promotion of Information Resources in Science and Technology (COINFO 2011)

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第六届科技信息资源共享促进国际会议论文集

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Preface of COINFO 2011

Welcome to the 6th International Conference on Cooperation and Promotion of Information Resources in Science and Technology, also known as 'COINFO 2011'.

COINFO conferences have been organized by the Institute of Scientific and Technical Information of China (ISTIC) in collaboration with Chinese and overseas universities and approved by the Ministry of Science and Technology (MOST) of China since 2006. This, the sixth COINFO conference is organized in collaboration with Zhejiang University (China), University of Southern Queensland (Australia), Beijing institute of technology (China), Beijing University of Chemical Technology (China), Beijing Jiaotong University (China), and Beijing University of Posts and Telecommunications.

ISTIC was created in October of 1956 as a national scientific and technical information service institute within MOST. Its areas of activity include: information analysis and policy research on Science and Technology (S&T); the provision of scientific and technical documentation services oriented towards key innovation entities; diffusion of new technologies and management of advanced S&T service platforms; training and further education of information professionals; knowledge management for learned societies; and book publishing. In addition, ISTIC is responsible for the important mission of maintenance and development of the National Engineering and Technology Library.

As a research entity under ISTIC, the Resource Sharing and Promotion Center (RSPC) is engaged in theoretical research on S&T resources and government/industry-related resource applications. Its main tasks include performing S&T resource management, entrusted by the MOST and other related government agencies and industrial organizations, while promoting research, practice and service in the field, facilitating the integration and sharing of national S&T resources, conducting competitive intelligence studies, and driving the transfer of practical technological achievements and the dissemination of patents, standards, as well as technological, economic and trade information.

This year, during COINFO 2011, ISTIC is also organizing Annual Conference cooperating with the Medical Instrument Society (MIS) of China Instrument and Control Society (CIS, China), where leaders in the field of eHealth and medical Instrument expressed strong interest in supporting international collaborative projects to accelerate the coordinative innovation and open sharing of health systems, worldwide.

On behalf of the COINFO 2011 Organizing Committee, it is my great pleasure to welcome the delegates to this conference and hope their stay in Hangzhou is pleasant and memorable.

Professor Jie Peng
Director, Centre for Resources Sharing Promotion
Institute of Scientific and Technical Information of China

Biography of Editor in Chief

Dr. Ying Su is an associate professor at Institute of Scientific and Technical Information of China (ISTIC) which is the biggest National Engineering and Technology Library in China and lead directly to Ministry of Science and Technology of People Republic China (MOST), and a Visiting Professor of University of Arkansas at Little Rock (UALR) and Distinguished Visiting Professor of School of Economics and Management, Beijing University of Chemical Technology (BUCT). He is the Chief Innovator and Founder of Information Quality Lab (IQL) in China, and the secretary-general of International Conference on Cooperation and Promotion of Information Resources in Science and Technology (COINFO) sponsored by MOST, Keynote Speaker on "3rd Spanish Conference on Care for Chronic Patients (2011, Spain)", "2011 International Conference on ICT in Enhancing Healthcare Education, Research & Practice through Technology (Hong Kong)" and "2011 Aged Care Informatics Conference (Australia)". During his study in Tsinghua University, Beijing, he was awarded the best graduate students from the Department of Precision Instruments and Mechanics and Department of Industry Engineering respectively. From 2006 to 2008, he engaged in the School of Economics and Management of Tsinghua University as an assistant professor, and won the title of Excellent Postdoctor of Tsinghua University. He was principal investors of many projects at national, provincial and ministerial levels. He is also an author of many scientific and research papers and editor of many national and international Journals. His current research interests include Data Information Quality (DIQ), Hospital Process Modeling, e-health/Telemedicine, healthcare informatics, Green IT, Cloud Computing and Virtualization, Broadband Wireless Access, Performance Measurement & Control, Discrete-event Modeling and Simulation, Enterprise Resource Planning (ERP), Strategic Management, Supply Chain Management (SCM), Agile Manufacturing, Advanced Planning and Scheduling, Quality Function Deployment (QFD), and Computer Aided Process Planning (CAPP).

Dr. Latif Al-Hakim is the program leader of supply chain at the University of Southern Queensland. His experience spans thirty-eight years in industry, research and development organisations and in universities. He received his first degree in Industrial Engineering in 1968. His MSc (1977) in Systems Engineering and PhD (1983) in Management Science were awarded from the University of Wales (UK). Dr Al-Hakim has held various academic appointments and lectured on a wide variety of interdisciplinary Management and Industrial Engineering topics. He has published extensively in systems modelling, information quality, health informatics and **lean thinking**. His recent research work concentrates on the application of **lean thinking** on healthcare organisation with specific interest on disruption and errors in operating rooms and emergency departments. Research papers have appeared in various international journals and have been cited in other research and postgraduate work. He is the author and editor of nine books, about twenty chapters in books and more than 90 papers in various journals and conference proceedings. Latif is the Editor-in-Chief of International journal of Information quality and Associate Editor of International Journal of Networking and Virtual Organisations. Recently, Dr Al-Hakim has awarded the status of Honorary Senior Lecturer at the School of Medicine, Imperial College London.

Message from Co-Chairs and Conference Secretary

The Sixth International Conference on Cooperation and Promotion of Information Resources in Science and Technology (COINFO 2011) provides a unique forum for academics, researchers and practitioners to come together to promote the exchange and dissemination of their experience and knowledge on theory and practices in emerging aspects of information resources. Under the circumstance of economic globalization, information explosion and networking, more and more organizations recognize that it is difficult to adapt to complex and fast changeable business environment with extensive competition separately and cooperation is the only way to move forward. The key issue becomes how to manage innovation and share information by providing coordination of activities that are reciprocally interdependent. This is the challenge that faces management today and, therefore, the COINFO 2011 focuses on the theme 'Coordinative Innovation & Open Sharing'.

We do not believe there is one definitive answer to the question of how to manage innovation and share information. Rather, it depends on many contextual characteristics and circumstances too numerous to cover in one conference. This year we are pleased that COINFO 2011 has attracted a large number of professionals and academics from around the world to showcase the main aspects of Coordinative Innovation & Open Sharing. We have received 158 submissions, from which only 103 papers have been selected. We have attempted to classify the conference research topics into six general tracks or areas of research. Each area contains several topics. The six research areas are:

Area 1: Information Management for Coordinative Innovation

This area of research includes topics related to technologies as well as practical aspects of, but not limited to, Human Resource & Talent Analysis; Financial Resource; Software Agents; Science & Technology Infrastructures; Technology Project Management & Analysis; Measurement and Evaluation of Innovative Resources or GIS and remote sensing are welcomed.

Area 2: Information Sharing & Knowledge Management

Topics may include (but are not limited to) theory, strategies, and application of Designing and Deployment of Information Sharing Platforms; Digital Object Identifier; Organization Collaboration; Open Access: theory and Practice; Wireless and mobile technology applications.

Area 3: Information Quality & Data Government

Information Quality (IQ) is the degree to which information is fit for use in a particular application. The study of information quality is a multi-discipline based on database theory, psychological model, informatics, communication theory and quality management principles. This research area targets research papers dealing with IQ strategy, dimensions, tools and assessment, IQ and cost/benefit analysis, Metadata quality problems, IQ for e-government, and e-business , Information mapping and flow, and Empirical research in fields of IQ

Area 4: Regional Development & Innovation

This area of research deals with topics related to Industry Upgrading and Technology Resources, Business Networks and Resource Sharing, Family Business and Regional Economy, and Innovation for Regional Development.

Area 5: Human-centred eHealth

This area of research deals with topics related to eHealth and Electronic Health Record (EHR), Aged and community care informatics, Technologies for eHealth, Healthcare Reform for Health IT, Health Information Technology Standards, Management Engineering-Process Improvement, Patient Safety and Quality Outcomes, Applications and case studies, Telecare and Telehealth, Nursing Management, Human factor and Instrument Design and Innovation in Technology, Education, and Management.

Area 6: Medical Instrument & Information

This area of research deals with topics related to biomedical instrumentation, Treatment and rehabilitation equipment, Biomedical signal detection and processing, Medical diagnostic and test equipment, Medical equipment Information, applications and case studies.

All submissions have been reviewed by at least two reviewers. Members of COINFO 2011 Program Committee worked hard to review submitted papers and to provide feedback to the authors. Members of the International Advisory Committee dealt with the speakers submissions. We would like to thank them for their effort, time and most rigorous reviews.

Co Chairs

Professor Jin Chen, Vice dean, Zhejiang University, China

Professor Xiaoying Tang, Vice dean, Beijing Institute of Technology, China

Professor John R. Talburt, Director, Entity Resolution and Information Quality (ERIQ), College of Information Science and Systems Engineering, University of Arkansas at Little Rock, USA

Dr Latif Al-Hakim, University of Southern Queensland, Australia

Conference Secretary

Dr Ying Su, Associate Professor of Institute of Scientific and technical Information of China (ISTIC, China), Visiting professor of University of Arkansas at Little Rock (UALR, USA)

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