

Preface

I am delighted to welcome you to the 2011 International Conference on System science, Engineering design and Manufacturing informatization (*ICSEM 2011*) which was held in Guiyang, China from 22 October to 23 October, 2011. The theme of the plenary session is “system science, engineering design and manufacturing informatization” featuring invited speakers who will further explore this topic that is so significant in these fields. Concurrent sessions and a poster session will cover a wide range of topics and issues, including both contributed papers and special sessions developed on specific themes, all with a central focus of system science, engineering design and manufacturing informatization. Topics will range from the theories to the practice methods and technology, such as complex system modeling and complexity, control theory, Industrial design, cybernetics, Modeling and simulation methods, e-commerce and computer-aided Manufacturing etc.

The objective of ICSEM 2011 is to provide an idea-exchange and discussion platform for the world’ enterprises and academia, where internationally recognized researches and practitioners share cutting-edge information, address the hottest issue in system science, engineering design and manufacturing informatization, explore new technologies, exchange and build upon ideas. This year, ICSEM 2011 has received an overwhelming response of 500 papers submitted to the Program Committee, from 6 countries and regions. All the submitted papers have been peer reviewed by at least 2 reviewers drawn from the chairs of committees depending on the subject matter of the paper. Reviewing and initial selection were undertaken electronically. A joint committee meeting was held to resolve the final paper selection and a draft program for the conference. After the rigorous reviewing process, about 180 papers were accepted for presentation and included in the proceedings. The proceedings of ICSEM 2011 were published by IEEE.

On behalf of the Organizing Committee, we would like to express our sincere appreciations to all reviewers for their timely and outstanding efforts in reviewing the large number of papers. Finally, we also are appreciated for all the authors and participants for their great contributions that made this conference possible and all the hard work worthwhile.

ICSEM 2011 General Chair
September, 2011

Organization Committee

International Advisory Board Chair:

Prof. Po-Tsun Liu, National Chiao Tung University

Prof. Jianshi Li, Guizhou University, China

Conference Chairs:

Prof. Yong Zhao, Shenzhen Graduate School, Peking University, China

Prof. Shipei Du, Guizhou University, China

Program Committee Chair:

Prof. Valentina E. Balas, Aurel Vlaicu University of Arad, Romania

Program Committee:

Prof. Vladimir O. Safonov, St. Petersburg University, Russia

Dr. Kelly Robinson, Electrostatic Answers LLC, USA

Dr. Yun Wu, Guizhou University, China

Prof. Yangmin Li, University of Macau, Macau

Dr. Ming Xu, Shenzhen University, China

Dr. Xiaolin Zheng, Zhejiang University, China

Prof. Mojtaba Agha-Mirsalim, Amirkabir University of Technology, Iran

Dr. Min He, Hunan University, China

Prof. Defang Liu, Yancheng Institute of Technology, China

Dr. Nian Liu, Beijing University of Posts and Telecommunications, China

Prof. Valentina E. Balas, Aurel Vlaicu University of Arad, Romania

Dr. Samonov, Q., Lomonosov Moscow State University, Russia

Prof. Jasmko Tochiny, University Malaysia Sabah, Malaysia

Dr. Deng Sun, Tsinghua University, China

Prof. Macos, B., Federal University of Rio de Janeiro, Brazil

Dr. S. S. Tang, Lenoir-Rhyne University, USA

Prof. Sikh Namh C., University of Delhi, India

Dr. P. Q. Wu, Guizhou University, China

Dr. Muslim, K. L., University of Pune, India

Dr. S. T. Chau, National Yunlin University of Science & Technology, Taiwan

Dr. Stephen, K., Belmont University, USA

Dr. Na Sun, Beijing University of Posts and Telecommunications, China

Dr. Nan Zhang, Tongji University, China

Dr. Ling Shen, Shenzhen Graduate School, Peking University, China

Prof. Chaohui Jiang, Guizhou University, China

Dr. Bin Wang, Tongji University, China

Dr. Ra. Sankaran, Research Publishing Service, Singapore

Dr. Hamid Yaghoubi, Railway Research Center, Iranian Railroads

Dr. Jivika Govil, Carnegie Mellon University, USA

Prof. Genoveffa Tortora, University of Salerno, Italy

Dr. Shigong Long, Guizhou University, China

Prof. Qisong Chen, Guizhou University, China

Dr. Hao Li, Zhejiang University, China