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Message from General Co-chairs and Program Co-chairs

Welcome to Kunming/Lijiang and to the Fourth International Joint Conference on Computational Sciences and Optimization (CSO2011), held at Kunming/Lijiang, Yunnan, China, April 15-19, 2011. CSO2011 builds on the success of the previous three conferences: the first conference held at Hong Kong on August 1-3, 2008, the second conference held at Sanya, Hainan, China, April 24-26, 2009 and the third conference held at Huangshan, Anhui, China. Encouraged by the successful experience and feedbacks from the participants, this year the conference is held at Kunming/Lijiang, Yunnan, China,.

Computational Sciences and Optimization are two important disciplines in modern sciences with many applications ranging from applied sciences, engineering, management, finance, and economics, to arts, humanities, and social sciences. Currently some new challenges arise in the modeling of complex systems, sophisticated algorithms, advanced scientific and engineering computing and associated problem-solving environments. Because the solutions of complex problems must cope with the tight timing schedule, powerful computational algorithms and complex optimization techniques are inevitable for solving these practical problems.

In order to strengthen academic exchanges and discussions on the fields of computational sciences and optimization, The Fourth International Joint Conference on Computational Sciences and Optimization (CSO2011) will be held on April 15-19, 2011 in Kunming/Lijiang, Yunnan Province, China. It provides a five-day forum on Computational Sciences and Optimization Sciences. The theme of the plenary session is "Computational Sciences and Optimization for Engineering Practice" and the following keynote speakers are invited to further explore these topics: Ajith Abraham (Machine Intelligence Research Labs (MIR Labs), USA), Sy-Ming Guu (Yuan Ze University, Taiwan), and Xin-She Yang (National Physical Laboratory, UK). The General Co-chairs and PC Co-Chairs of CSO2011 would like to thank all the keynote speakers for their innovative and inspiring speeches delivered in the conference.

Concurrent sessions and poster sessions will cover a wide range of topics and issues, including both contributed papers and special sessions/workshops developed on specific topics, all with a central focus of Applied Computing, Computational Sciences, Optimization Theory, Methods and Applications. This year, we also have sixteen workshops or special sessions that complemented CSO2011 program with contributions for specific topics. The workshops include The 5th International Workshop on Computational Methods in Energy Economics (CMEE2011) (organized by Lean Yu), The 3rd International Workshop on Intelligent Computational Science (ICS 2011) (organized by Wenqian Shang and Haibin Zhu), The 3rd International Workshop on Advanced Intelligent Computing for Meteorological Applications (IWAICMA 2011) (organized by Jin Long and Wu Jiansheng), The 3rd International Workshop on Computational Transportation Science (CTS 2011) (organized by Bin Jia, Qiong Tian and Tianliang Liu), The 4th International Workshop on Computational Finance and Business Intelligence (CFBI 2011) (organized by Fenghua Wen, Xiong Xiong and Lingxiao Tang), The 2011 International Workshop on Multi-Criteria Decision-Making and Emergency Management (MCDMEM 2011) (organized by Yi Peng and Lean Yu), The 2nd International Workshop on Spatial Computational Sciences and Applications (SCSA 2011) (organized by Yuxin Zhao, Xiaojun Ban and Yonggang Zhang), The 2011 International Workshop on Computational Service Science (CSS 2011) (organized by Jun Wu and Huajun Tang), The First International Workshop on Meteorological Disaster and Public Meteorology Service (MDPMS 2011) (organized by Jie Cao and Zaiwu Gong), The 2011 International Workshop on Computational Business Science (CBS 2011) (organized by Guangxing Wei and Yanhong Qin), The First International Conference on

Intelligent Engineering Informatics (ICIEI 2010), The 2011 International Workshop on Logistics and Supply Chain Management (IWLSCM 2011) (organized by Bo He and Mingming Ren), The First International Workshop on Low-Carbon Economy and Carbon Finance (LCE-CF 2011) (organized by Guoxing Zhang and Jian Chai), The 2011 International Workshop on Information Processing and Management for E-commerce (IPME 2011) (organized by Wei Huang and Qiang Ye), The First International Workshop on Financial Optimization and Risk Management (FORM 2011) (organized by Wei Xu) and The First International Workshop on Risk Management: Theory, Methods and Applications (RMTMA 2011) (organized by Gang Xie and Lean Yu). The General Co-chairs and Program Co-chairs of CSO 2011 would like to thank all the workshops chairs for their excellent works and effort in organizing these workshops.

The CSO 2011 joint conference will provide an idea-exchange and discussion platform for the world's researchers and academia, where internationally recognized researchers and practitioners share state-of-the-art research results, cutting-edge information, address the hottest issue in computational science and optimization, explore new computational technologies, exchange and build upon new ideas. And meantime the joint conference will also provide researchers and practitioners an opportunity to highlight innovative research directions, and a growing number of novel applications, and to explore new approaches for future developments.

CSO2011 received 881 submissions (including main track papers and workshop papers) from over 10 countries and regions. All submitted papers have to go through a rigorous reviewing process. Each submission was reviewed by at least two independent reviewers in a standard peer-review process. Papers belonged to three categories: regular papers of 5 pages, short papers of 4 pages and poster papers of 2 pages. After rigorous peer-review, we finally select 304 papers (acceptance rate 34.5%) for publication. We emphases that our policy is to guarantee the high-quality of the accepted papers and at the same time encourage more people to participate in the conference.

This year, CSO2011 is co-sponsored by Chinese Academy of Sciences (CAS), China; National Natural Science Foundation of China (NSFC), China; Academy of Mathematics and Systems Science of CAS, China; Beijing University of Chemical Technology, China; Institute of Systems Science of CAS; Centre for Forecasting Science (CEFS) of CAS, China; Key Laboratory of Management, Decision and Information Systems (MADIS) of CAS, China; and Beijing Zhongke Markway Education Technology Center, China. Meantime, CSO 2011 is technically co-sponsored by IEEE Computer Society, USA; College of Business of City University of Hong Kong, Hong Kong; System Engineering Society of China (SESC), China; IEEE Computer Society Technical Committee on Scalable Computing (TCSC), USA; International Institute for Decision Sciences (IIDS), Hong Kong; Technical Committee on Decision Science of Operation Research Society of China, China; Technical Committee on Management Science and Engineering of Chinese Society of Management Modernization, China; Technical Committee on Financial System Engineering of System Engineering Society of China, China; Youth Branch of Chinese Society of Optimization, Overall Planning and Economical Mathematics, China and Technical Committee on Business Intelligence of Chinese Society of Management Modernization, China. Their sponsorships support the success of conference.

CSO2011 would not have been successful without the support of many people and organizations. First and foremost, we would like to thank all the authors for submitting their papers to the conference, for their presentations and discussions during the conference. We would like to express our most sincere gratitude to Program Committee members and our professional reviewers, who carried out the most difficult work by carefully evaluating the submitted papers.

We would like to give special thanks to the conference sponsors. Last but not least, we would like to thank all conference participants for their contribution and support. We hope that all participants can take this opportunity to share and exchange ideas with one another and enjoy CSO2011.

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