Preface

BIFE 2010

With the increase of global competition and the rapid development of financial market (especially for emerging financial market), business intelligence and financial engineering become two important research areas for academics and practitioners. In the two cross-disciplinary fields, business intelligence refers to computer-based techniques used in spotting, digging-out, and analyzing business data, which can provide the ability to manage growing volumes of complex data and enables organizations to evaluate the data in order to make well informed business decisions. Usually, business intelligence can be regarded as elevating data to information and then to knowledge. While financial engineering usually relies on computational intelligence, mathematical finance, numerical methods and computer simulations to make trading, hedging and investment decisions, as well as facilitating the risk management of those decisions. Utilizing various methods, practitioners of financial engineering aim to precisely determine the financial risk that certain financial instruments create. In the sense, financial engineering is closely related to business intelligence. Nevertheless, as a new cross-disciplinary field, the existing business intelligence methods are far from practical uses for scenarios in global financial market; it is not clear how the quickly emerging business intelligence techniques can be used to improve the quality of financial and business decisions. Therefore, it is necessary to conduct a thorough investigation for the business intelligence and financial engineering and meantime understand what the fundamental theoretical problems are in the business intelligence and financial engineering. In order to promote theoretical development and strengthen practical discussions on the field of business intelligence and financial engineering applications, the Third International Conference on Business Intelligence and Financial Engineering (BIFE 2010) was held in Hong Kong, 13-15 August 2010.

BIFE 2010 builds on the success of last year’s conference held in Beijing, China during 24-26 July 2009. The main purpose of BIFE 2010 is to bring together researchers, developers, practitioners, and users of artificial intelligence, computer science, financial engineering and other business applications to present, discuss and exchange ideas, results and experiences in the fields of business intelligence for problems in financial engineering and inter-disciplinary business applications. This conference provides an open international forum for academic researchers and industry practitioners in the field of business intelligence and financial engineering from universities throughout the world to practitioners from industry to share cutting-edge information, to address current hottest issues, and to explore new modeling approaches and future alternative solutions.

This year we received 422 submissions (including two main tracks and two workshops) from 12 countries and regions. All submitted papers went through a rigorous reviewing process. Every submission was reviewed by at least two independent reviewers in a standard peer-review process. Papers belonged to two main categories: regular papers of 5 pages and short papers of 4 pages in terms of review comments. According to the results of peer-review, 99 papers are finally accepted by the conference and the acceptance rate of the conference was 23.46% (99 papers accepted out of 422 submissions).

BIFE 2010 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 gratitude to Program Committee members and 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. This year, BIFE 2010 is co-sponsored by College of Business, City University of Hong Kong, Hong Kong; Centre for Forecasting Science (CEFS) of Chinese Academy of Sciences (CAS), China; Key Laboratory of Management, Decision and Information Systems (MADIS) of CAS, China; School of Economics and Management, Changsha University of Science & Technology, China; Tenly Software Incorporated, Shanghai, China; and International Institute for Decision Sciences (IIDS), Hong Kong. Meantime, BIFE 2010 is technically co-sponsored by IEEE Computer Society, USA; System Engineering Society of China.
BIFE 2010 has marked an important shift in the number of submissions received and in attracting a larger audience of researchers. This year, BIFE 2010 has two main tracks: Business Intelligence and Computational Finance. In conjunction with BIFE 2010 we have 2 workshops that complemented BIFE 2010 program with contributions for specific topics. We would like to thank all workshops chairs for their excellent work in organizing these workshops.

We would like to express our gratitude to Patrick Kellenberger, CPS production editor of IEEE Computer Society Press, for all the support and help related to the production of this important scientific work. BIFE 2010 conference used EasyChair Conference System and the system developer, Andrei Voronkov’s support is much appreciated.

Last but not least, we would like to thank all conference participants for their contribution and support. Do hope all participants took this opportunity to share and exchange ideas with one another and enjoy BIFE 2010.

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