Welcome to the Forth International Conference on Information Technology and Quantitative Management (ITQM 2016), August 16-18, 2016, Asan, Korea. The theme of ITQM 2016 is "Promoting Business Analytics and Quantitative Management of Technology". ITQM 2016 is organized by International Academy of Information Technology and Quantitative Management (IAITQM), Hoseo University, Korea and Korea Advanced Institute of Science and Technology, Korea.

IAITQM was formally inaugurated on June 3, 2012 with more than 50 founding members from China, United States, Australia, Japan, Lithuania, Poland, Romania, Spain, Singapore, South Korea, The Netherlands, Turkey and other countries. The International Conference on Information Technology and Quantitative Management (ITQM), established by IAITQM, is a global forum for exchanging research findings and case studies that bridge the latest information technology and quantitative management techniques. It explores how the use of information technology to improve quantitative management techniques and how the development of management tools can reshape the development of information technology. The First International Conference on Information Technology and Quantitative Management (ITQM 2013) took place in Suzhou, China. The Second International Conference on Information Technology and Quantitative Management (ITQM 2014) was held in Moscow, Russia. The Third International Academy of Information Technology and Quantitative Management (ITQM 2015) was held at Rio de Janeiro, Brazil.
ITQM 2016 covers all topics in the broad ranges of Information Technology and quantitative management, including, but not limited to:

- Management of Technology
- Business Analytics Tools and Applications
- Innovative Business Model and Platform
- New Machine Age: IOT (Internet of Things), Fintech, 3D Printing, Mobile Commerce, Artificial Intelligence, Drone
- Social Media, Curation Marketing, Design Thinking
- Nemo-Marketing
- Econometric and Empirical Understanding of Emerging Business
- Applications of Big Data technologies and methods (e.g., Data Mining, Data Warehousing, Data Analysis) to support optimal decision making
- Habitual domain and behavioral approaches to Big Data analytics
- Data Science issues in information technology and quantitative management
- IT-enabled quantitative management and decision making in the government sector and in public and private companies
- Mobile technologies and cloud computing
- Applications of IT-enabled quantitative management and decision making in Logistics, Finance, Marketing, Strategy, Human Resources, IT, Project Management, Process Improvement, Sustainability, Innovation, and other Management disciplines
- Developments in IT-enabled quantitative management and decision making in different industries, such as Oil and Gas, Banking, Transportation, Utilities, Health care, Telecom, Education, etc.
- Applications of Social Networks Analysis in IT-enabled quantitative management and decision making
- IT-enabled quantitative management and maturity models
- Soft computing methods in quantitative management and decision making processes
- Developments in Multicriteria Analysis related to IT-enabled quantitative management
- Semantic learning and intelligent awareness
- Quantitative management tools

Technical exchanges within the research community will encompass the invited keynote lectures, tutorials, plenary speeches, special sessions, and workshops.

At ITQM 2016, we have invited the following world leading keynote speakers to give their current and future visions about Information Technology and Quantitative Management:

- Fred Glover, University of Colorado, USA, and Gary Kochenberger, University of Colorado Denver, USA on “Meta-Analytics for Real World Inventory Management Optimization”;
- Peizhuang Wang, Liaoning Technical University, China on “Factor Space: A Mathematical Framework for New Paradigm Driven by Big Data”;
- Jifa Gu, Chinese Academy of Sciences, China on “Systems engineering and Systems Science: 10 big advances related to Big data”.

In addition to our excellent keynote speakers, there are 3 tutorial speakers on various IT/QM topics:

- Ioan Dzitac, Professor, Aurel Vlaicu University of Arad & Rector of Agora University of Oradea, Romania on “From Fuzzy Logic to Soft Computing: New Paradigms in Decision Making”;
- Milan Stanojevic, Professor, Faculty of Organizational Sciences and Bogdana Stanojevic, Researcher, Mathematical Institute of the Serbian Academy of Sciences and Arts on “Multi-criteria optimization: applications and some limits of its achievements”;
- Felisa M. Cordova, Director of School of Industrial Engineering, Faculty of Electrical Engineer, University of Santiago, Chile on “Neuro-Management: Challenges and Trends”.

The industrial IT plenary speech is:

- Zhou Weidong, Board Chairman of Beijing TAIJIHUABAO High-tech Co., Ltd., China on “Online Education in The Insurance Industry”.
There were more 350 scholars from 24 countries and regions submitted their papers to ITQM 2016. The authors are from Algeria, Australia, Brazil, Canada, Chile, China, Denmark, France, Hong Kong, India, Iran, Japan, Korea, Lebanon, Malaysia, Mexico, Romania, Russia, Spain, Taiwan, Turkey, United Kingdom, United States, and Uzbekistan. After the peer-review process, we have accepted 144 high-quality papers from all submitted papers for presentation at the conference. These papers are published by Elsevier in their Procedia Computer Science series. They are allocated into one main track, 19 special sessions and 13 workshops.

As before, ITQM 2016 relies strongly on the vital contributions of our workshop organizers to attract high quality papers in many subject areas. We would like to thank all special session/workshop organizers, ITQM committee members, and reviewers for their contribution to ensure a high standard for the accepted papers. We would like to express our gratitude to the Korean local organizing committee for their enthusiastic work towards the success of ITQM 2016. We owe special thanks to our sponsors: Hoseo University, Korea, Korea Advanced Institute of Science and Technology, Korea, Research Center on Fictitious Economy and Data Science and Key Lab of Big Data Mining and Knowledge Management, Chinese Academy of Sciences, School of Economics and Management, University Chinese Academy of Sciences, Institute of Policy and Management, Chinese Academy of Sciences, Chinese Academy of Management, China, University of Nebraska at Omaha, USA, and Beijing Taiji Huabao Tech Co., Ltd, China for their generous support.

We wish you a successful and enjoyable conference in Asan, Korea!

August, 2016, Asan, Korea

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