



## Tenth International Conference on Information Technology and Quantitative Management (ITQM 2023)

### Global Collaboration to Enhance Information Technology & Quantitative Management: Preface for ITQM 2023

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Welcome to the Tenth International Conference on Information Technology and Quantitative Management (ITQM 2023), August 12–14, Oxford, United Kingdom. The theme of ITQM 2023 is “**Global Collaboration to Enhance Information Technology & Quantitative Management**”. ITQM 2023 is organized by International Academy of Information Technology and Quantitative Management (IAITQM), Chinese Academy of Sciences, University of Nebraska at Omaha, and University of Oxford.

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, 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 techniques to improve quantitative management 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 at Moscow, Russia. The Third International Conference on Information Technology and Quantitative Management (ITQM 2015) was held at Rio de Janeiro, Brazil. The Fourth International Conference on Information Technology and Quantitative Management (ITQM 2016) was held at Asan, Korea. The Fifth International Conference on Information Technology and Quantitative Management (ITQM 2017) was held at New Delhi, India. The Sixth International Conference on Information Technology and Quantitative Management (ITQM 2018) was hosted at Omaha, USA. The Seventh International Conference on Information Technology and Quantitative Management (ITQM 2019) was held at Granada, Spain. The Eighth International Conference on Information Technology and Quantitative Management (ITQM 2020 & 2021) took place in Chengdu, China. The Ninth International Conference on Information Technology and Quantitative Management (ITQM 2022) was held in Beijing, China (online mode).

ITQM 2023 covers all topics in the broad ranges of Information Technology and Quantitative Management, including but not limited to:

- Advances in B2B, B2C and C2C Environments
- Advances in Quality Management
- Agricultural Markets and International Trade
- Artificial Intelligence
- Asset Pricing
- Banking regulation and financial services
- Big data and Deep learning
- Big data in finance
- Brands and Consumer Behavior
- Business Analytics Tools
- Commodity and Product Pricing
- Contemporary Leadership issues
- Corporate finance and capital structure
- Data Mining and Data Warehousing
- Data Science
- Digital Learning and Organization
- Digital Marketing
- Employability Skills and Talent Management
- Financial Econometrics
- Financial literacy and financial education
- Global Recession
- Human Resource Management
- Investment management
- IoT (Internet of Things)
- IT-enabled quantitative management
- Management of Technology
- Managing Global Value Chains
- Market Volatility and Financial Innovation
- Mobile technologies and cloud computing
- Multicriteria Analysis related to IT-enabled quantitative management
- Neuro Marketing
- Quantitative management tools
- Semantic learning and intelligent awareness
- Service Operations Management
- Social Media
- Social Media and Mobile Marketing
- Soft computing methods
- Sustainability Issues in Trade
- Sustainable Supply Chain Management
- Technology for Training and Development
- Technology in Banking and Insurance
- Web intelligence

ITQM 2023 will focus on technical exchanges within the research community, encompassing some invited keynote lectures, special sessions and workshops. At ITQM 2023, we have invited the following 4 world leading keynote speakers to give their current and future visions about Information Technology and Quantitative Management:

- Jack Dongarra, University of Tennessee, Oak Ridge National Laboratory, and University of Manchester, United States on “**An Overview of High-Performance Computing and Future Requirements**”
- Jyrki Wallenius, Aalto University School of Business, Finland on “**Interactive Methods for Multi-Objective Optimization**”
- Xiaohui Liu, Brunel University London, United Kingdom on “**Cross-Field Research in AI, Data Science, and Optimization: What Have We Learned?**”
- Yong Shi, Research Centre on Fictitious Economy & Data Science, Key Lab of Big Data Mining and Knowledge Management, Chinese Academy of Sciences, China on “**Digital Economy: History, Development and Future Trends**”

In addition, we have also invited 1 famous scholar presenting their research findings as the plenary speaker as below:

- Huchang Liao, Business School of Sichuan University, China on “**Multiplicative Consistency of Hesitant Fuzzy Preference Relation and Its Application in Group Decision Making**”

There are more than **650** scholars and students from **20** countries and regions submitted their papers to ITQM 2023. The authors are from Brazil, Canada, Chile, China, Colombia, Denmark, France, Germany, India, Iran, Macao (China), Mexico, Netherlands, Romania, Russia, Saudi Arabia, Serbia, Spain, United Kingdom and United States. After peer-review process, we have accepted **198** high-quality papers from all submitted papers for presentation at the conference. These papers are published by Elsevier in **Procedia Computer Science** series. This conference is allocated into **1 General Session, 28 Paralleled Special Sessions/Workshops**.

Like previous conferences, ITQM 2023 relies strongly on the vital contributions of our organizers to attract high quality papers in many subject areas. Here we would like to thank all special sessions and workshops organizers, all 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 conference committees for their enthusiastic work towards the success of ITQM 2023. We also owe special thanks to our sponsors mentioned before as well as special session/workshop chairs and all volunteers for their generous supports.

We wish you an enjoyable and successful conference this year!

August 12-14, Oxford, United Kingdom

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