

Preface

Welcome to the Proceedings of the Tenth International Conference on Management Science and Engineering Management (ICMSEM 2016) held from August 31 to September 2, 2016 at Baku, Azerbaijan.

The International Conference on Management Science and Engineering Management (ICMSEM) is an annual conference organized by the International Society of Management Science and Engineering Management (ISMSEM). The goals of the conference are to foster international research collaborations in management science and engineering management (MSEM) as well as to provide a relaxing and enjoyable atmosphere for the presentation of current research through technical sessions and round table discussions.

The ICMSEM has been successfully held 9 years since 2007. The first three ICMSEMs were held in Chengdu, China from July 14 to 21, 2007, Chongqing, China from November 3 to 8, 2008 and Bangkok, Thailand from November 2 to 4, 2009, respectively. The Fourth ICMSEM was held from November 15 to 17, 2010 in Chungli, Taiwan, for which 1326 papers from 33 countries were received and 125 papers accepted. The Fifth ICMSEM was held from November 7 to 9, 2011 in Macau, China, for which 1106 papers from 33 countries were received and 113 papers accepted. In 2012, the Sixth ICMSEM was held at Quaid-i-Azam University, Islamabad, Pakistan from November 11 to 14, for which 1090 papers from 33 countries were received and 90 papers accepted for presentation or poster display. The Seventh ICMSEM was held from November 7 to 9, 2013 at Drexel University, Philadelphia, Pennsylvania, USA, for which 1420 papers from 35 countries were received and 130 papers from 12 countries accepted for presentation or poster display. The Eighth ICMSEM was held in Europe at the Universidade Nova de Lisboa, Lisbon, Portugal from July 25 to 27, 2014, for which 1,337 papers from 37 countries were received and 138 papers from 14 countries accepted. The Ninth ICMSEM was held from July 21 to 23, 2015 at the Karlsruhe Institute of Technology (KIT), Karlsruhe, Germany, for which 971 papers from 35 countries were received and 132 papers from 15 countries accepted. All accepted papers were put into the proceedings for each International Conference on

Management Science and Engineering Management and proceedings for the last four conferences can be retrieved from EI and ISTEP.

This year, 985 papers from 37 countries were received and 138 papers from 21 countries accepted for presentation or poster display at the conference. These papers are from Azerbaijan, the USA, the UK, Turkey, Japan, Vietnam, Australia, Pakistan, Spain, Portugal, Iran, the Russia Federation, Uzbekistan, Korea, France, Canada, the Republic of Moldova, Bangladesh, Mongolia, South Africa and China. Papers have been classified into eight parts in the proceedings: Intelligent Systems, Computing Methodology, Information Technology, Decision Making Systems, Industrial Engineering, Logistics Engineering, Project Management and Risk Management. The key issues at the Tenth ICMSEM cover many areas in management science and engineering management, including decision making methods, operations research, computational mathematics, information systems, logistics and supply chain management, computer and networks, ecological engineering, scheduling and control, data warehousing and data mining, electronic commerce, neural networks, stochastic models and simulation, heuristics algorithms, tourism informatics and risk control. To further encourage state-of-the-art research in the field of management science and engineering management, the ISMSEM Advancement Prize for Management Science and Engineering Management is to be awarded for excellent papers at the conference.

We would like to take this opportunity to thank all the participants who have worked so hard to make this conference a success. We want to express our sincere gratitude to the following prestigious academies for their high-quality papers and support for the keynote addresses: the Russian Academy of Sciences, the Mongolian National Academy of Sciences, the Azerbaijan Academy of Sciences, the Moldova Academy of Sciences, the International Academy for Systems and Cybernetic Sciences and the Lotfi Zadeh International Academy of Sciences. We would also like to acknowledge the assistance we received from the International Society of Management Science and Engineering Management and Sichuan University for the conference organization. We also appreciate Springer-Verlag London for the publication of the proceedings. We are also grateful to Professor **Adalat Muradov** for being the General Chair and Prof. Asaf Hajiyevev for being the Organizing Committee Chair. We appreciate the great support received from all members of the Organizing Committee, Local Arrangement Committee and Program Committee as well as all participants who have worked so hard to make this conference a success. Finally we would like to thank all researchers for their excellent conference papers. Because of the high quality of the research, the ISMSEM Advancement Prize for MSEM is to be awarded again for papers which have focused on innovative practical applications for management science and engineering management.

The MSEM research is in continuous development, hence many new MSEM development trends have emerged. Our work needs to continue to focus on MSEM development so as to encourage greater and more innovative development activity. Next year, we plan to continue our novel and successful ICMSEM, and intend to increase our efforts to improve the quality of the proceedings and to recommend

more excellent papers for the ISMSEM Advancement Prize. The Eleventh International Conference on Management will be hosted by Kanazawa University, Kanazawa, Japan in July 2017. Professor Dr. Mitsuo Gen has been nominated as the Organizing Committee Chair for the 2017 ICMSEM, so we sincerely hope you can submit your new MSEM findings and share your ideas in Kanazawa, Japan.

Chengdu, China
Baku, Azerbaijan
Karlsruhe, Germany
Tokyo, Japan
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