

Preface

This volume records the accepted papers of 2014 3rd International Conference on Sensors, Measurement and Intelligent Materials (ICSMIM 2014) which took place in Zhuhai, China, 25-26 November, 2014. The conferences bring together contributions from scientists and engineers from academia, research institutes and industrial establishments, and therefore provide an excellent opportunity for these communities to present and discuss the latest results in the field of sensors, measurement and Intelligent Materials. Specific symposium topics of interest include: Sensors and Their Applications; Measurement Methods, Technologies and Their Applications; Remote Sensing and Telemetry; Smart Materials, Design, Processing and Smart Structures; Intelligent Expert Systems and Intelligent Application Systems; Artificial Intelligence, Algorithms, Computation Methods and Their Applications; Mathematical Methods and Information Technologies in Industrial Engineering; Data, Text, Sound, Image, Signal and Video Processing and Technologies, and Their Applications; Testing, Detection, Measurement, Monitoring Technologies and Instruments; Mechatronics, Industrial Robotics, Automation and Control Technology; Computer Networks, Communication Technology and E-Commerce; Modern Electronic, Circuit Technology, Electrical; Software Applications and Development, etc..

We are grateful to the program committee members and the external reviewers for their hard work and expertise in selecting the program. We hope you find the technical program and all talks enjoyable and very beneficial. We hope that ICSMIM 2014 has been a memorable conference and an enjoyable experience for all of its participants.

The Committee of ICSMIM 2014

2014 3rd International Conference on
Sensors, Measurement and Intelligent Materials
(ICSMIM 2014)

Conference Organization

Co-Chairmen

Prof. Yun-Hae Kim, Korea Maritime University, Korea
Prof. Prasad Yarlagadda, Queensland University of Technology, Australia

Technical and Organizing Committee

Prof. Nabil Gindy, University of Nottingham, UK
Prof. Toshio Haga, Osaka Institute of Technology, Japan
Prof. Jong Kook Lee, Chosun University, Korea
Prof. Yong-Lin Kuo, National Taiwan Univ. of Sci. and Tech., Taiwan
Prof. Mao-Hsiung Chiang, National Taiwan University, Taiwan
Prof. Yi-Sheng Huang, National Ilan University, Taiwan
Prof. Chen-Chien Hsu, National Taiwan Normal University, Taiwan
Prof. Zhong Wende, Nanyang Technological University, Singapore
Prof. Jiankun Hu, University of South Wales, Australia
Prof. Yong Guan, Iowa State University, USA
Prof. Yao-Wen Chang, National Taiwan University, Taiwan
Prof. Wenjun Meng, Taiyuan University of Sci. and Tech., China
Prof. Haoran Geng, University of Jinan, China
Prof. Qiang Wang, Jinan University, China
Prof. Sihai Jiao, Research Institute, Baosteel, China
Prof. Xiaoping Zhou, Hubei University Of Technology, China
Prof. Jian Gao, Guangdong University of Technology, China

Prof. Xiaobo Zhou, University of Colorado at Colorado Springs, USA
Prof. Yun-Hae Kim, Korea Maritime University, Korea
Prof. Carlos Caceres, The University of Queensland, Australia
Prof. Shahrum Abdullah, University Kebangsaan Malaysia
Dr. Xiangping Bu, Wayne State University, USA
Prof. Sagar Kamarthi, Northeastern University, USA
Prof. Heinz-Gunter, Brokmeier, Technische Universitat Clausthal
Prof. Zhengyi Jiang, University of Wollongong, AU
Prof. Yusuf Altintas, University of British Columbia, Canada
Prof. Phil Koshy, McMaster University, Hamilton, Ontario, Canada
Prof. Kambakar P Rajurka University of Nebraska-Lincoln, USA
Prof. V.K.Jain, Indian Institute of Technology, Kanpur, UP, India
Prof. Walid Mahmoud Shewakh, Beni Suef university, Egypt
Prof. Yusuf Altintas, University of British Columbia, Canada
Prof. Prasad Yarlagadda, Queensland University of Technology
Prof. Yun-Hae Kim, Korea Maritime University, Korea
Prof. Seung-Bok Choi, Inha University, Korea
Prof. Yu Wang, Chinese University of Hong Kong , HK
Prof. Xianghua Liu, Northeastern University, China
Prof. Jingtao Han, University of Science and Technology Beijing, China
Prof. Daoguo Yang, Guilin University of Electronic Technology, China
Prof. Kaiming Wu, Wuhan University of Science and Technology, China
Prof. Jinglong Bu, Hebei United University, China
Prof. Wenlei Sun, Xinjiang University, China
Prof. Jun Wang, Northeastern University, China
Prof. Jeng-Haur Horng, National Formosa University, Taiwan
Prof. Jiwei Cai, Hebei United University, China
Prof. Wu-Shiung Feng, Chang Gung University, Taiwan
Prof. Keon Myung Lee, Chungbuk National University, Korea