

# Preface

The International Conference on Measurement, Instrumentation and Automation remains faithful to its original idea of providing a platform to discuss measuring technology and its application, instrumentation, mechatronics, optoelectronics, network theory and applications, automatic control and robotics, modeling, power systems, data acquisition, signal processing etc. with participants from all over the world, both from academia and from industry. Its success is reflected in the papers received, with participants coming from many countries, allowing a real multinational multicultural exchange of experiences and ideas.

This year the third ICMIA was held in Shanghai, China, April 23-24, 2014. The present volumes collect accepted papers and represent an interesting output of this conference. This book covers these topics: Measurement Science, Methods and Techniques of Measurements, Signal Acquisition and Data Processing Techniques, Research and Design of Measurement Instruments, Sensors Technology, Image and Video Processing, Artificial Intelligence, Optimization Algorithms and Computational Mathematics, Mechatronics and Robotics, Control and Automation of Industrial Objects, Electronics, Integrated Systems and Power Electronics, Communications Technology, Computer Networks and Security, Software Development and Application, Computer and Information Technologies, Materials, Mechanical Engineering and Manufacturing, Fluid Power Transmission and Control, Power Engineering, Transportation, Biomaterials and Sports Mechanics, Engineering Education and Engineering Management, etc.

This conference can only succeed as a team effort, so the editors want to thank the international scientific committee and the reviewers for their excellent work in reviewing the papers as well as their invaluable input and advice.

*The Committee of ICMIA 2014*

2014 3rd International Conference on  
Measurement, Instrumentation and Automation  
(ICMIA 2014)

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