Preface

The International Conference on Mechatronics and Information Technology (ICMIT) is an event designed to promote the exchange of information on the latest accomplishments, innovations, future trends and applications in advanced mechatronics, information technology and correlative fields.

The 6th International Conference on Mechatronics and Information Technology (ICMIT2011) was held on 16–19 August 2011 in Shenyang, Liaoning province, PR China. The aim was to enable the sharing of ideas and foster discussion of new techniques and applications in mechatronics and information technology and to accelerate the actualization of the conference theme, “Mechatronics and information technology development for advanced equipment manufacture”. There were 259 papers accepted for presentation in the conference covering the following topics:

- Actuators and Mechanism
- Applied Electromagnetics and Mechanics
- Smart Materials and Structure
- Mechatronics and MEMS
- Sensors and Signal/Image Processing
- Magnetic Resonance Imaging
- Embedded Systems
- Power Electronics
- Control Theory and Applications
- Intelligent Systems and Control
- Robotics
- Human Interfaces
- Condition Monitoring/Fault Diagnosis
- Welfare and Biomedical Engineering
- Information Technology
- Communication and Network Systems
- Ubiquitous Applications

Some excellent papers were recommended by the organizing committee for publication of this special issue of the International Journal of Applied Electromagnetics and Mechanics. Ten papers containing the latest results within the scope of the IJAEM were stringently selected through a peer review process. The selection includes papers on applied electromagnetic systems, piezoelectric materials and devices, and control applications in mechatronic systems.

Finally, the success of the ICMIT 2011 was due to the sponsorship of the Japan Society of Applied Electromagnetics and Mechanics and their cooperation in publishing this special issue of the International Journal of Applied Electromagnetics and Mechanics. We would like to express our sincere gratitude to the journal editors and all the people involved in the publishing process.

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