

Progress in Mechatronics and Information Technology

Part 2

Edited by
Keon Myung Lee, Prasad Yarlagadda
and Yang-Ming Lu



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PART 2

Selected, peer reviewed papers from the
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(ICMIT 2013),
October 19-20, 2013, Guilin, China

Edited by

**Keon Myung Lee, Prasad Yarlagadda
and Yang-Ming Lu**



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Preface

The 2013 International Conference on Mechatronics and Information Technology (ICMIT 2013) was held on October 19-20, 2013 in Guilin, China. The purpose of the conference is to promote activities in various areas of mechatronics and information technology by providing a forum for exchange of ideas, presentation of technical achievements, and discussion of future directions. The symposium brings together an international community of experts to discuss the state-of-the-art, new research results, perspectives of future developments, and innovative applications relevant to mechatronics, robotics, automation, information technology and related areas.

The topics of the Conference include Actuators, Automotive Systems, Electronic Packaging, Fault Diagnosis, Industry Applications, Information Technology, Intelligent Systems, Machine Vision, Micro-Electro-Mechanical Systems, Neural, and Fuzzy Controls, Opto-Electronic Systems, Robotics, System Integration, Transportation Systems, and other Control Applications.

We would like to take this opportunity to thank the members of the Symposium Steering and International Scientific Committee, many of whom acted as reviewers of the papers presented here under a very short timescale, as well as our sponsor, keynote speakers. The editors hope that this volume will provide a useful contribution to enhancing the science, technology, education, and training in mechatronics and information technology.

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