

Preface

2012 the Second International Conference on Frontiers of Manufacturing Science and Measuring Technology (ICFMM 2012) will be held in Xi'An, China during June 12-13, 2012. The conference aims mainly at promoting the development of measuring and manufacturing science, strengthening the international academic cooperation and communications, and exchanging research ideas.

In this conference, we received more than 850 submission from email and electronic submission system, which were reviewed by international experts, and about 400 papers have been selected for presentation, representing 9 national and international organizations. I think ICFMM 2012 will be the most comprehensive Conference focused on the Frontiers of Manufacturing and Measuring Science. This conference provides a comprehensive approach to product development, design, measure and manufacture and attempts to fill the existing void. We believe the proceedings will provide the readers a broad overview of the latest advances in the field of manufacturing and measuring science.

On behalf of the guest editors for this conference proceeding, We would like to thank the National 863 Program of China, National Science Fund of China. We also thank the conference organization staff, and the members of International Technological Committees for their hard work. Dr. Thomas Wohlbier, Managing Editor of Journal of Advanced Materials Research, is greatly acknowledged.

We hope that ICFMM 2012 will be successful and enjoyable to all participants. We look forward to seeing all of you next year at the ICFMM 2013.

March, 2012

Wen-Pei Sung

National Chin-Yi University of Technology

ICFMM 2012 Committee

Conference Chairman

Prof. Wen-Pei Sung, National Chin-Yi University of Technology

Prof. Jimmy C.M. Kao, National Sun Yat-Sen University

Dr. Chen Ran, Chongqing University of Technology /HongKong Control Engineering and Information Science Research Association (CEIS)

Technical Committee

Ghamgeen Izat Rashed, Wuhan University, China

Andrey Nikolaevich Belousov, Prof. Andrey Belousov, Head Laboratory of Applied Nanotechnology, Ukraine

Krupa Ranjeet Rasane, Department of Electronic Communications Engineering KLE Society's College of Engineering, India

Sajjad Jafari, Semnan University, Iran

Ahmed N. Abdalla, Universiti Malaysia Pahang, Malaysia

BUT ADRIAN, ELECTROMOTOR company, Timisoara, Bulevardul, Romanian

Yan Wang, The University of Nottingham, U.K.

Prof. Yu-Kuang Zhao, National Chin-Yi University of Technology, Taiwan

Yi-Ying Chang, National Chin-Yi University of Technology, Taiwan

Darius Bacinskas, Vilnius Gediminas Technical University, Lithuania

Viranjay M.Srivastava, Jaypee University of Information Technology, Solan, H.P., India

Chenggui Zhao, Yunnan Normal University, China

Hsiang-Chuan Liu, Asia University

Hao-En Chueh Yuanpei University

Zhou Liang, Donghua University, China

Liu Yunan, University of Michigan, USA

Wang Liying, Institute of Water Conservancy and Hydroelectric Power, China

Chenggui Zhao, Yunnan University of Finance and Economics, China

Rahim Jamian, Universiti Kuala Lumpur Malaysian Spanish Institute, Malaysia

Lixin Guo, Northeastern University, China

Wen-Sheng Ou, National Chin-Yi University of Technology

Mostafa Shokshok, National University of Malaysia, Malaysia

Ramezan ali Mahdavinejad, University of Tehran, Iran

Wei Fu, Chongqing University, China

Anita Kovač Kralj, University of Maribor, Slovenia

Tjamme Wieggers, Delft University of Technology, Netherlands

Gang Shi, Inha University, South Korea

Bhagavathi Tarigoppula, Bradley University, USA

Co-Sponsored by

Control Engineering and Information Science Research Association

International Frontiers of science and technology Research Association

Trans Tech Publications

Chin-Yi University of Technology