

Preface

2013 International Conference on Materials Engineering and Mechanical Automation will be held on October 1-2, 2013, Shanghai, China.

The forum aims to bring together researchers, developers, and users from around the world in both industry and academia for sharing state-of-art results, for exploring new areas of research and development, and to discuss emerging issues facing Materials Engineering and Mechanical Automation.

It is gratifying that the proceeding of MEMA 2013 include more than 110 excellent papers selected from more than 200 submitted paper(s) whose authors involved at least 25 countries and areas such as Algeria, China, Christmas Island, Czech Republic, Estonia, France, Hongkong, India, Iran, Italy, Kazakhstan, Korea, Republic of Malaysia, Mexico, Norway, Poland, Portugal, Russian Federation, Saudi Arabia, Singapore, Slovakia, Spain, Taiwan, Thailand, Tunisia, Turkey, Ukraine, United Kingdom.

After the excellent presentations on October 1, 2013, authors from different countries and areas participated warmly discussions on October 2, 2013, for their viewpoints with dividing into several session by topics.

The organizing committee carried out the selection of invited and contributed papers, and their arrangements into 12 sessions with paper topics: 1) 12 papers stress on Polymer materials and composite materials; 2) 11 papers talk about “Metals and alloys”; 3) 2 papers “Building Materials”; 4) 2 papers “Biochemistry Materials and Engineering”; 5) 8 papers “Energy Science and Engineering”; 6) 23 papers “Manufacturing Science and Engineering”; 7) 3 papers “Environmental Materials and Engineering”; 8) 6 papers “Microelectronics and Embedded Systems”; 9) 9 papers “Mechatronics”; 10) 18 papers “Automation and Robot”; 11) 11 papers “Computer and Internet Application”; 12) 5 papers “CAD/CAM/CIM”; especially, Manufacturing Science and Engineering. Most of them made oral presentations or poster communications each others as the arrangement.

The editors were responsible for selection of reviewers for the papers, whom we thank for their promptitude and accurate work. The communication between authors and referees was managed by the editors.

Anyway, our sincere thanks to the support from technology committee for designing the conference web page and also spending countless days in preparing the final conference program in time for printing. Many thanks to Miss Han: MEMA 2013 secretary for arranging to type a large number of the invitation letters and for establishing the vast MEMA 2013 conference address data base. and thanks to other staffs assisting in the various stage of the editorial work, especially the international committees of our conference

Guohui Yang

MEMA 2013 Organizing Committee

Keynote Speakers

Gerald Schaefer, Department of Computer Science Loughborough University Loughborough, U.K

Honor Chair

Tianharry Chang, IEEE SYS Brunei Darussalam chapter Past Chair, Brunei Darussalam

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Enke Wang, International Materials Science Society, Hong Kong

Lee Xiang, Hong Kong Education Society, Hong Kong

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Mark Zhou, Hong Kong Education Society, Hong Kong

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Garry Zhu, Thompson Rivers University, Canada

Ying Zhang, Wuhan University, China