

# Preface

Dear Distinguished Authors and Guests,

The Organizing Committee warmly welcomes you to 2013 The 2nd International Conference on Automatic Control and Mechatronic Engineering(ICACME2013), held on June 21-22, 2013, Bangkok, Thailand.

The aim of ICACME2013 is providing researchers, scientists, engineers and scholar students for presenting novel and fundamental advances in the fields of Automatic Control and Mechatronic Engineering. Authors are invited to contribute their papers, showcase their latest tools and techniques so as to promote the creation and exchange of ideas and the identification of new trends and required developments.

After the peer-review process, the submitted papers were selected on the basis of originality, significance, and clarity for the purpose of the conference. The selected papers and additional late-breaking contributions to be presented as lectures will make an exciting technical program. The conference program is extremely rich, featuring high-impact presentation. We hope that the conference results constituted significant contribution to the knowledge in these up to date scientific field.

The proceeding records the fully refereed papers presented at the conference. The main conference themes and tracks are Automatic Control and Technology, Control Theory and Application, Mechatronic Engineering etc. Hopefully, all participants and other interested readers benefit scientifically from the proceedings and also find it stimulating in the process.

On behalf of the organizing committee, I would like to especially thank all the editors from Trans Tech Publications for their great support to ICACME2013. Without their excellent editorial work, ICACME2013 will not be published so timely and successfully.

We, BOSI EDU, as Professional Organizer for Academic Conferences, will be committed ourselves to make ICACME more and more professional with fully and enjoyable academic research and discussion platform for authors and attendees. Sincerely as always, we look forward to your consistent attention and support to 3rd ICACME in 2014.

With our warmest regards,  
Sally Gao

Conference Organizing Chair  
June 22, 2013  
BOSI EDU, Shenyang, China

# Committees

## **Honorary Chair**

Prof. Yu-Sheng Lu, National Taiwan Normal University, Taiwan

## **International Program committee Chair (Thailand)**

Prof. Ratchatin Chanchareon, Chulalongkorn University, Thailand

Prof. Chuleerat Jaruskulchai, Kasetsart University, Thailand

## **International Program committee Chair (Malaysia)**

Prof. Mohd Zulkifly Abdullah, Universiti Sains Malaysia, Malaysia

## **International Program committee Chair (China)**

Prof. Yangmin Li, University of Macau, China

Prof. Xi Chen, Tsinghua University, China

Prof. Yongchun Fang, Nankai University, China

## **International Program committee Chair (Taiwan)**

Prof. Cheng Tang Pan, National Sun Yat-Sen University, Taiwan

Prof. Yung Ting, Chung Yuan Christian University, Taiwan

Prof. Lung Chien Chen, National Taipei University of Technology, Taiwan

Prof. Jyh Horng Chou, National Kaohsiung University of Applied Sciences, Taiwan

## **International Program committee Chair (United Arab Emirates)**

Prof. Kamal Moustafa, United Arab Emirates University, UAE

Prof. Abdel Hamid Ismail Mourad, United Arab Emirates University, UAE

Prof. Mousa I. Hussein, United Arab Emirates University, UAE

## **International Program committee Chair (Japan)**

Prof. Sachiko Nakagawa, Okayama University of Science, Japan

## **International Program committee Chair (Germany)**

Prof. Hubert Roth, University of Siegen, Germany

**International Program committee Chair (Mexico)**

Dr.Carlos Alberto Cruz-Villar, CINVESTAV-IPN, Mexico

**International Program committee Chair (Sri Lanka)**

Dr.Shirley Devapriya Dewasurendra, University of Peradeniya,Sri Lanka

**International Program committee Chair (Pakistan)**

Prof. Sajjad Mohsin, CIIT Islamabad, Pakistan

**International Program committee Chair (Sudan)**

Dr. Naeim Farouk Mohammed, Harbin Engineering University, Member in Sudanese Engineering Society, Sudan

**International Program committee Chair (India)**

Dr.P.SIVAPRAKASH, Karpagam Institute of Technology, India

**Program committee**

Yu Liu, Institute of Acoustic, Chinese Academy of Sciences, China

W.A.H.S.S.Wewala, University of Vocational Technology, Sri Lanka

Wenjie Chen, Singapore Institute of Manufacturing Technology, Singapore

Ana Almerich Chuliá, Universidad Politecnica de Valencia, Spain

Chin-Wen Chuang, I-Shou University, Taiwan

Chun Lin Chu, National Central University, Taiwan

Haibin Duan, Beihang University, China

Zhiwei Gao, Tianjin University, China

Juntao Fei, Hohai University, China

Guangdong Tian, Chongqing College of Electronic Engineering , China

Tarek Mohammad, University of British Columbia (UBC), Canada

Jorg Conradt, Institute of Automatic Control Engineering (LSR), Germany