

# Preface

2014 International Conference on Aerospace and Mechanical Engineering (AME 2014) will be held on April 13-14, 2014, Bangkok, Thailand.

The book is aimed at readers falling between two ends of a broad spectrum: at one end are aerospace or mechanical engineers with basic knowledge in control systems; at the other are control engineers with little or no knowledge about gas turbines (the typical electrical engineer may fit this category). Of course, any “interpolated” engineer will also benefit from this book, since it includes detailed information on turbine engine systems and introduces advanced control topics.

AME 2014 focus on three topics: (I) Materials Science and Materials Processing Technology; (II) Aerospace and Mechanical Engineering, Applied Mechanics; (III) Computation Methods and Information Technologies. Some papers were highly evaluated by the scientific committees and the reviewers. For example, the “A Development of Human Machine Interface in a Miniature 3-Axis Milling Machine Prototyping” by Pornjit Pratumswan, Anan Suebsomram; the “Modeling of atmospheric processes based on the averaged Navier-Stokes equations” by Bakytzhan Zhumagulov, Dauren Zhakebaev and Aigerim Abdibekova was highly evaluated. We expect that the conference and its publications will be a trigger for further related research and technology improvements in these importance subjects.

AME 2014 was both stimulating and informative with an interesting array of keynote and invited speakers from all over the world. Delegates had a wide range of sessions to choose. The program consisted of invited sessions, technical workshops and discussions with eminent speakers covering a wide range of topics. This rich program provided all attendees with the opportunity to meet and interact with one another.

We would like to thank the organization staff, the members of the program committees and reviewers. They have worked very hard in reviewing papers and making valuable suggestions for the authors to improve their work. We also would like to express our gratitude to the external reviewers, for providing extra helps in the review process, and the authors for contributing their research result to the conference.

We hope that AME 2014 will be successful and enjoyable to all participants. We look forward to seeing all of you next year at the AME.

QI Luo

# Conference Committees

## **Honorary Chair**

Yuan Lee, Northeastern University, USA

## **General Chairs**

Jun Zhang, Huazhong University of Science and Technology, China

Minli Dai, Suzhou University, China

## **Organizing Chairs**

Khine Soe Thaung , Maldives College of Higher Education, Maldives

Biswanath Vokkarane, Society on Social Implications of Technology and Engineering , Maldives

## **Program Chairs**

Hong Zhang, Wuhan University, China

Dehuai Yang , Huazhong Normal University, China

## **Program Chairs**

Qi Luo, Singapore Management and Sports Science Institute, Singapore

## **International Committee**

Minli Dai, Suzhou University, China

Ying Zhang, Wuhan University, China

Zhenghong Wu, East China Normal University

Tatsuya Akutsu, ACM NUS Singapore Chapter, Singapore

Aijun An, National University of Singapore, Singapore

Yuanzhi Wang, Anqing Teachers' University, China

Yiyi Zhouzhou, Azerbaijan State Oil Academy, Azerbaijan

Khine Soe Thaung , Maldives College of Higher Education, Maldives

Biswanath Vokkarane, Society on Social Implications of Technology and Engineering

Jessica Zhang, Information Engineering Research Institute, USA

David Meng, Information Engineering Research Institute, USA

Kath David, Information Engineering Research Institute, USA