

## Introduction

The organizing committee warmly welcomed our distinguished delegates and guests to the 2015 4th International Conference on Mechanics and Control Engineering (ICMCE 2015), held during November 23-25, 2015 in Lisbon, Portugal.

ICMCE conference is initiated by American Society for Research, assisted by many other universities and institutes every year. This is the annual conference and 2015 is the fourth year of ICMCE conference, with ICMCE 2012 in Shanghai (China), ICMCE 2013 in Beijing (China), ICMCE 2014 in (Asheville) USA. The conference committee chairs are Prof. Guanghsu Chang, Georgia Southern University, USA and Prof. Zhihua Guo, Southwest Jiaotong University, China.

The conference was organized to gather members of our international community scientists so that researchers from around the world could present their cutting edge work, expanding our community's knowledge and insight into the significant challenges currently being addressed in that research. The conference program committee was quite diverse and truly international, with membership from the Americas, Europe, Asia, Africa and Oceania.

This proceedings volume contains fully refereed papers presented at the ICMCE 2015. The main conference themes and tracks are Mechanics and Control Engineering. The main goal is to provide international scientific forums for exchange of new ideas in a number of fields that interact in-depth through discussions with their peers from around the world. The conference solicited and gathered technical research submissions related to all aspects of major conference themes and tracks. All of the submitted papers in these proceedings have been peer reviewed by the reviewers drawn from the scientific committee, external reviewers and editorial board depending on the subject matter of the paper. Reviewing and initial selection were undertaken electronically. After the rigorous 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 made for an exciting technical program. The high quality of the program – which was guaranteed by the presence of an unparalleled number of internationally recognized top experts – can be assessed when reading the contents of the program. The conference was therefore a unique event, where attendees were able to appreciate the latest results in their field of expertise, and to acquire additional knowledge in other fields.

We are grateful to all those who have contributed to the success of ICMCE 2015. We would like to thank the program chairs, organization staff, and the members of the program committees for their work. We hope that all participants and other interested readers benefit scientifically from these proceedings and also find it stimulating in the process.

Finally, we hope that you had a unique, rewarding, and enjoyable week at ICMCE 2015 in Lisbon.

With our warmest regards,

Prof. Zhihua Guo, Southwest Jiaotong University, China

Prof. Guanghsu Chang, Georgia Southern University, USA