

## Introduction

The organizing committee warmly welcomed our distinguished delegates and guests to the 2016 7th International Conference on Mechatronics and Manufacturing (ICMM 2016) held during January 13-14, 2016 in Singapore.

ICMM conference is initiated by American Society for Research, assisted by many other universities and institutes every year. This is the annual conference and 2016 is the seventh year of ICMM conference. The conference committee chairs are Prof Hao Gong, Prof Yan Biao, Prof Jae Hoon Lee and Prof. Vadim Rashitovich Gasiyarov.

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 ICMM 2016. The main conference themes and tracks are Mechatronics and Manufacturing. 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 ICMM 2016. 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 ICMM 2016 in Singapore.

With our warmest regards,

Prof Hao Gong, National University of Singapore, Singapore

Prof Yan Biao, Tongji University, China

Assoc. Prof. Jae Hoon Lee, Ehime University, Japan

Assoc. Prof. Vadim Rashitovich Gasiyarov, South Ural State University , Russia

# Committee Members

## Conference Chairs

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