

# Preface

The present volume contains selected papers from the proceeding of International Conference on History of Mechanical Technology and Mechanical Design -2012(IICHMTMD2012). The conference is developed from China-Japan International Conference on History of Mechanical Technology (CJICHMT). The 1<sup>st</sup> CJICHMT was held in Beihang University on Oct. 12-14, 1998, sponsored by Beihang University, and the Co-sponsors include Chinese history of machinery Society, Japan Society of Education for History of Technology and Chiba Institute of Technology etc.. CJICHMT is initiated by Prof. Guo Keqian (professor of Beihang University), Prof. Edoh Gendai (Chiba Institute of Technology) and Prof. Shimotsuma Yorikazu (Kansai University). The purpose is to build a platform of academic, cultural and information exchange for researchers of China and Japan, so as to promote the development of study of history of mechanical technology. The conference holds once every two years. In the 4th conference of 2004, for expanding the fields of exchange, the organizing committee decided to rename the conference to China-Japan International Conference on History of Mechanical Technology and Mechanical Design (CJICHMTMD). And in the next year (2005), as a special case, the 5th CJICHMTMD was held in Chiba, Japan. The latest conference, namely, 8<sup>th</sup> CJICHMTMD was held from Oct.31 to Nov.1, 2010 in Jiaozuo, Henan Province, sponsored by Beihang University, and undertaken by Henan Polytechnic University (HPU). The major topics of the 8<sup>th</sup> CJICHMTMD cover History of Mechanical Technology, Mechanical Design and Mechanical Manufacture. Now, CJICHMTMD is attracting more and more attentions come from China and Japan. CJICHMTMD has been sponsored by National Natural Science Foundation of China in the former times.

For expanding the influence of the conference on history of mechanical technology and mechanical design, the organizing committee of 8th CJICHMTMD decided to rename this conference the International Conference on History of Mechanical Technology and Mechanical Design and that the next conference on History of Mechanical Technology and Mechanical Design will be held in Taiwan during March 23-25, 2012 and undertaken by National Cheng Kung University.

There are more than 100 papers submitted to International Conference on History of Mechanical Technology and Mechanical Design-2012 from Mainland China, Taiwan and Japan. All of the papers were subjected to peer review by at least two expert referees, and some excellent papers were selected to publish in this volume.

International Conference on History of Mechanical Technology and Mechanical Design 2012 will be held with the great effort of many people. As the organizers of the conference, we would like to take this opportunity to express our appreciation for the kind support and high quality contributions from all the contributors and delegates. And we wish to express our thanks to the Honorary Chairmen of Conference Edoh Gendai (Japan) and Guo Keqian (China). Thanks should also be given to the staff of the this conference who paid a lot of hard work in call for paper, paper edition, conference arrangement, and so on. We especially should give the thanks to Prof. Hong-Sen Yan and Associate Prof. Kuei-Yuan Chan of National Cheng Kung University, Prof. Zhang Yidu, Prof. Zhang Jianbin and Prof. Wang Chunjie of Beihang University, Prof. Zhang Hai of Henan Polytechnic University and Prof. Wang Guanglin of Harbin Institute of Technology for their fruitful efforts during the paper organization of the conference. Finally, we wish to express our thanks to Trans Tech Publications for publishing the volume.

## Conference Organizers

Beihang University

National Cheng Kung University

Japan Society of Education for History of Technology