

## Preface

The 2012 International Conference on Information Engineering for Mechanics and Materials (ICIMM 2012) will be held on May 19-22, 2012, Hangzhou, China. ICIMM was initially created by a network of researchers and engineers both from academia and industry in the areas of material and mechanics science.

The main target of ICIMM is to provide an idea-exchange and discussion platform for the world' enterprises and academia, where internationally recognized researches and practitioners share cutting-edge information, exchange and build upon ideas, and explore new technologies in different aspects of materials and mechanics science.

The International Program Committee (IPC) of ICIMM 2012 consists of more than 20 experts in the related fields both from academia and industry. ICIMM 2012 received more than 250 full-paper submissions from 12 different countries around the world. These submissions were sent to the members of the IPC and additional reviewers for review. Every submission received at least two independent reviews. We would like to thank the IPC members and the reviewers for their hard work and dedication. The final acceptance rate of ICIMM 2012 is about 42%, that is, only 105 papers are accepted by the conference.

All accepted papers are published in this special volume, which intends to address the hottest issues in materials and mechanics. The volume covers a wide series of topics in the area, including materials engineering, mechanical engineering, computer aided design, modeling and analysis, etc.

On behalf of the IPC, we would like to welcome the delegates and their guests to the ICIMM 2012. We hope that you will enjoy the conference and find the ICIMM 2012 Program exciting.

## **Committees:**

Prof. Yoshinori Hayafuji, Kwansei Gakuin University (Japan)

Prof. Xiancan Deng (Hangzhou Dianzi University)

Dr. Raj Das (Department of Mechanical Engineering, Centre for Advanced Composite Materials, University of Auckland)

Dr. Aiming ji (Soochow University)

Dr. Chuanhuang Li (Zhejiang Gongshang University )

Dr. Gen Li (Autodesk)

Dr. Guozhou Zheng (Zhejiang University)

Associate Prof. Hun Sun (Zhejiang Police Vocational Academy)

Dr. Hui Wang (Tsinghua University)

Dr. Huijiao Wang (Zhejiang Sci-Tech Univertiy)

Dr. Lucca Lu (Institute of Electronic and Information Technology)

Prof. Linli Xu (University of Science and Technology of China)

Prof. Mahmoud Abdel-Aty (University of Sohag)

Dr. Elwin Mao (Institute of Electronic and Information Technology)

Prof. Wenya Tian (Zhejiang Economic & Trade Polytechnic)

Dr. Xiaoqing Zheng (Fudan University)

Mrs. Yan Wei (Semiconductor Manufacturing International Corporation)

Prof. Zhongmei Zhou (Zhangzhou Normal University)

## **Sponsors:**

Institute of Electronic and Information Technology

Zhejiang Economic & Trade Polytechnic