

# Preface

2012 International Conference on Smart Technologies for Materials and Communication (ICSTMC2012) is held during March 15-16, 2012 at Melbourne in Australia. The proceedings of ICSTMC2012 have been published by Advanced Engineering Forum (ISSN: 2234-9898), which include 47 excellent papers selected from more than 220 submitted paper(s) whose authors involved at least countries and areas such as Belgium, China, India, Korea, Iran, Hong Kong, Egypt, Thailand, Taiwan.

The conference is intended to bring together the researchers and engineers/technologists working in different aspects of materials, mechanical, electronic, computer, communication and other topics. In addition to the contributed papers, the conference committee has invited papers by active researchers from various countries in relevant topic areas covered at ICSTMC2012. And experts from several countries are invited to deliver plenary/Keynote lectures at ICSTMC2012.

Much of the credit of the success of the conference is due to topic coordinators who have devoted their expertise and experience in promoting and in general co-ordination of the activities for the organization and operation of the conference. The coordinators of various session topics have devoted a considerable time and energy in soliciting papers from relevant researchers for presentation at the conference. The Chairpersons of the different session played important role in conducting the proceedings of the session in a timely and efficient manner and the Committee expresses sincere appreciation for their involvement.

The reviewers of the manuscripts, those by tradition would remain anonymous, have been very helpful in efficiently reviewing the manuscripts, providing valuable comments well within the time allotted to them. The Editors express their sincere and grateful thanks to all reviewers.

The ICSTMC2012 International Committee is proud to dedicate this conference proceeding to the Prof. Kiyoshi Asai from National University of Laos of Laos and Biswanath Vokkarane from Society on Social Implications of Technology and Engineering. And Prof. Gerald Schaefer from Loughborough University of UK, and Harry Chang from University Brunei Darussalam of Brunei Darussalam, Selected as our Conference Chairs, They are not only outstanding and visionary researchers but also humble leaders.

Finally, our sincere thanks to the support from technology program committee for designing the conference web page and also spending countless days in preparing the final conference program in time for printing. Many thanks to Miss Han: ICSTMC2012 secretary for arranging to type a large number of the invitation letters and for establishing the vast ICSTMC2012 conference address data base. Sincere thanks to our organization committee for their several months' hard work in sorting out manuscripts from various authors. Also thanks to other staffs assisting in the various stage of the editorial work, especially the international committees of our conference.

Tianharry Chang

# **ICSTMC2012 Organizing Committee**

## **Keynote Speaker and Academic Chair**

Gerald Schaefer, Loughborough University, UK

## **Honorary Conference Chairs**

Kiyoshi Asai, National University of Laos, Laos

Biswanath Vokkarane, Society on Social Implications of Technology and Engineering

## **General Chairs**

Tianharry Chang, University Brunei Darussalam, Brunei Darussalam

Harry Chang, University Brunei Darussalam, Brunei Darussalam

## **Program Chairs**

David Wang, IEEE Nanotechnology Council Cambodia Chapter Past Chair , Cambodia

Tianbiao Zhang, Huazhong Normal University, China

## **Publication Chair**

Tianharry Chang, University Brunei Darussalam, Brunei Darussalam

## **International Commitees**

Yiyi Zhouzhou, Azerbaijan State Oil Academy, Azerbaijan

Dehuai Zeng, Shenzhen University, China

David Wang, IEEE Nanotechnology Council Cambodia Chapter Past Chair , Cambodia

Srinivas Aluru, ACM NUS Singapore Chapter, Singapore

Tatsuya Akutsu, ACM NUS Singapore Chapter, Singapore

Aijun An, National University of Singapore, Singapore

Qinyuan Zhou, Jiangsu Teachers University of Technology, China

Xiaofang Zhou, Jiangxi Normal University, China

Jing Luo, Jiangxi Normal University, China