Preface

2014 International Conference on Civil, Materials and Computing Engineering (ICCMC 2013) will be held on December 6-7, 2014, in Taiwan. The aim is to provide a platform for researchers, engineers, academicians as well as industrial professionals from all over the world to present their research results and development activities in Materials, Civil and Computer Engineering. The conference aims mainly at promoting the development of Materials, Civil and Computer Engineering, strengthening the international academic cooperation and communications, and exchanging research ideas. Submitted conference papers will be reviewed by technical committees of the Conference.

In this conference, we received more than 1000 submissions from email and electronic submission system, which were reviewed by international experts, and about 350 papers have been selected for presentation, representing 12 national and international organizations. I think that ICCMC 2014 will be the most comprehensive Conference focused on the Materials, Civil and Computer Engineering. The conference will promote the development of Materials, Civil and Computer Engineering, strengthening the international academic cooperation and communications, and exchanging research ideas.

We would like to thank the conference chairs, organization staff, the authors and the members of International Technological Committees for their hard work. Thanks are also given to Trans Tech Publications.

We hope that ICCMC 2014 will be successful and enjoyable to all participants. We look forward to seeing all of you next year at the MEME 2015.

October, 2014

Wen-Pei Sung National Chin-Yi University of Technology Jimmy (C.M.) Kao National Sun Yat-Sen University

ICCMC 2014 Committee

Honor Chairs

Prof. Min-Shiun Chao, National Chin-Yi University of Technology, Taiwan

Prof. Hsien-Te Lin, National Cheng Kung University, Taiwan

Prof. Ming-Chin Ho, Architecture & Building Research Institute, Taiwan

Prof. Cheer Germ Go, National Chung Hsin University, Taiwan

Prof. Tzen-Chin Lee, National United University, Taiwan

Conference Chairs

Prof. Jimmy C.M. Kao, National Sun Yat-Sen University, Taiwan

Prof. Wen-Pei Sung, National Chin-Yi University of Technology, Taiwan

Prof. Ming-Hsiang Shih, National Chi Nan University, Taiwan

Prof. Wen-Jie Luo, National Chin-Yi University of Technology, Taiwan

Prof. Che-Way Chang, Chung-Hua University, Taiwan

Publication Chair

Dr. Ran Chen, Control Engineering and Information Science Research Association (CEIS)

English Consultant

Prof. Ching-Yun Huang, National Chin-Yi University of Technology, Taiwan

Local Organizing Chairs

Prof. Ron Chen, Wu-Yi University, Fujian, China

Prof. Yu-Kuang Zhao, National Chin-Yi University of Technology, Taiwan

International Technological Committees

Yoshinori KITSUTAKA, Tokyo Metropolitan University, Japan

Nasrudin Bin Abd Rahim, University of Malaya, Malaya

Lei Li, Hosei University, Tokyo, Japan

Yan Wang, The University of Nottingham, U.K.

Zhi Jian Wang, China Academy of Science, China

Darius Bacinskas, Vilnius Gediminas Technical University, Lithuania

Qing-Lin Meng, South China University of Technology, China

Cheer Germ Go, National Chung Hsing University, Taiwan

Liu Yunan, University of Michigan, USA

Ye-Cai Guo, Nanjing University of Information Science & Technology, China

Wang Living, Institute of Water Conservancy and Hydroelectric Power, China

Chenggui Zhao, Yunnan University of Finance and Economics, China

Rahim Jamian, Universiti Kuala Lumpur Malaysian Spanish Institute, Malaysia

Li-Xin Guo, Northeastern University, China

Gang Shi, Inha University, South Korea

Bhagavathi Tarigoppula, Bradley University, USA

Chen Wang, University of Malaya, Malaya

Local Organizing Committees (Taiwan)

Shyr-Shen Yu, National Chung Hsing University

Yean-Der Kuan, National Chin-Yi University of Technology

Wen-Sheng Ou, National Chin-Yi University of Technology

Yu-Lieh Wu, National Chin-Yi University of Technology

Shih-Heng Tung, National University of Kaohsiung

Hsueh-Chun Lin, China Medical University

Yao-Chiang Kan, Yuan Ze University

Yao-Ming Hong, Ming Dao University

P. S. Pa, National Taipei University of Education

Shao-Wen Su, National Chin-Yi University of Technology

Yi-Ying Chang, National Chin-Yi University of Technology

Cheng-Yi Yu, National Chin-Yi University of Technology

Jun-Hong Lin, Nanhua University

Lei Wei, National Chin-Yi University of Technology

Ting-Yu Chen, National Chin-Yi University of Technology

Chih-Neng Hsu, National Chin-Yi University of Technology

Wen-der Yu, Chung Hua University

Chien-Te Hsieh, Yuan Ze University

Ta-Sen Lin, Taiwan Architects Association

HSI-CHI YANG, Chung Hua University

Jwo-Hua Chen, Chienkuo Technology University

Der-Wen Chang, Tamkang University

Cheng Der Wang, National United University

Shun-Chin Wang, Architecture & Building Research Institute

Yun-Wu Wu, China University of Technology

Yaw-Yauan Tyan, China University of Technology

Kuo-Yu Liao, Vanung University

Shih-Tsang Chou, China University of Technology

Co-sponsor

International Frontiers of science and technology Research Association

HongKong Control Engineering and Information Science Research Association