

# Preface

The 2013 International Conference on Structural Engineering, Vibration and Aerospace Engineering (SEVAE 2013) was held on 23–24 November 2013 in Zhuhai, China. Its aim was to bring together specialists in mechanics of materials, structural engineering, and aerospace as well as various areas of engineering to discuss advances in experimental and theoretical analysis, and numerical simulations of dynamic mechanical phenomena. papers presented at the this conference covered various topics including: Materials and Processing Technologies, Structural and Mechanical Engineering, Seismic and Vibration Engineering, Bridge, Road, Tunnel and Underground Facilities, Aviation, Aerospace Engineering, CAD/CAE and Computer Applications in Industry, etc.

We want to thank the Organizing Committee, the Institutions and Sponsors supporting the Conference, and everyone who contributed to the organization of this meeting, for their invaluable efforts in order to guarantee the complete success of this conference.

***The editor***

The 2013 International Conference on  
Structural Engineering, Vibration and Aerospace Engineering  
(SEVAE 2013)

**Conference Organization**

**Chairman**

Prof. Yun-Hae Kim, Korea Maritime University, Korea

**Technical and Organizing Committee**

Prof. Nabil Gindy, University of Nottingham, UK

Prof. Toshio Haga, Osaka Institute of Technology, Japan

Prof. Jong Kook Lee, Chosun University, Korea

Prof. Yong-Lin Kuo, National Taiwan Univ. of Sci. and Tech., Taiwan

Prof. Mao-Hsiung Chiang, National Taiwan University, Taiwan

Prof. Yi-Sheng Huang, National Ilan University, Taiwan

Prof. Chen-Chien Hsu, National Taiwan Normal University, Taiwan

Prof. Wenjun Meng, Taiyuan University of Sci. and Tech., China

Prof. Haoran Geng, University of Jinan, China

Prof. Jun Wang, Northeastern University, China

Prof. Qiang Wang, Jinan University, China

Prof. Sihai Jiao, Research Institute, Baosteel, China

Prof. Xiaoping Zhou, Hubei University Of Technology, China

Prof. Jian Gao, Guangdong University of Technology, China

Prof. Xiaobo Zhou, University of Colorado at Colorado Springs, USA

Prof. Yun-Hae Kim, Korea Maritime University, Korea

Prof. Carlos Caceres, The University of Queensland, Australia

Prof. Shahrum Abdullah, University Kebangsaan Malaysia

Dr. Xiangping Bu, Wayne State University, USA

Prof. Sagar Kamarthi, Northeastern University, USA

Prof. Heinz-Gunter, Brokmeier, Technische Universitat Clausthal

Prof. Zhengyi Jiang, University of Wollongong, AU

Prof. Niels Bay, University of Denmark, Denmark

Prof. Viktor P. Astakhov, General Motor Business Unit of PSMi

Prof. Cesar de Sa, Jose, University of Porto, Portugal

Prof. Cheng Kai, Brunel University, UK

Prof. Yusuf Altintas, University of British Columbia, Canada

Prof. Phil Koshy, McMaster University, Hamilton, Ontario, Canada

Prof. Kambakar P Rajurka University of Nebraska-Lincoln, USA

Prof. V.K.Jain, Indian Institute of Technology, Kanpur, UP, India

Prof. Walid Mahmoud Shewakh, Beni Suef university, Egypt

Prof. Yusuf Altintas, University of British Columbia, Canada

Prof. Prasad Yarlagadda, Queensland University of Technology

Prof. Jingtao Han, University of Science and Technology Beijing, China

Prof. Daoguo Yang, Guilin University of Electronic Technology, China

Prof. Yinbiao Guo, Xiamen University, China

Prof. Kaiming Wu, Wuhan University of Science and Technology, China

Prof. Shaohui Yin, Hunan University, China

Prof. Jinglong Bu, Hebei United University, China

Prof. Wenlei Sun, Xinjiang University, China

Prof. Jun Wang, Northeastern University, China

Prof. Jeng-Haur Horng, National Formosa University, Taiwan

Prof. Jiwei Cai, Hebei United University, China

Prof. Wu-Shiung Feng, Chang Gung University, Taiwan