Preface

The aim of the 7th International Conference on Advanced Materials and Engineering Materials (ICAMEM2018, Bangkok, Thailand 17-18 May 2018) was to provide leading academies and industry scientists a platform to communicate recent advances in Advanced Materials Science, Engineering Materials Research and an opportunity to establish multilateral collaborations.

Since the first ICAMEM in Shenyang, China (2011), a series of ICAMEM has been held in Asia: the 2nd, Beijing and Shanghai, China (2012); the 3rd, Singapore (2013); the 4th, Ningbo and Hong Kong, China (2014); the 5th, Hong Kong (2016) and the 6th, Singapore.

The papers were selected after the peer-review process by conference committee members and international reviewers. The submitted papers were selected on the basis of originality, significance, and clarity for the purpose of the conference.

On behalf of the organizing committee, the editor would like to acknowledge the technical comments from the reviewers and thank all of the authors for their contributions to this proceeding book.

With our warmest regards,

Conference Organizing Chair Prof. Peng-Sheng Wei National Sun Yat-Sen University, Kaohsiung, Taiwan June 4, 2018

Committees

Conference Secretary

Summer Wang, BOSI Education & Consultancy Co., Ltd

Program Committee

Yung Ting, Chung Yuan Christian University, Taiwan
Dr. Hui-Mi Hsu, National Ilan University, Taiwan
Ana Almerich Chuliá, Universitat Politecnica de Valencia, Spain
Ramesh Agarwal, Washington University in St. Louis, USA
Togay Ozbakkaloglu, The University of Adelaide, Australia
Jingwei Zhao University of Wollongong, NSW 2522, Australia
Ahmed Hamza H. Ali, Assiut University, Egypt
Javad A. Esfahani, Ferdowsi Univ. of Mashhad, Iran
Chong Kok-Keong, Universiti Tunku Abdul Rahman, Malaysia
Chew Kuew Wai, Universiti Tunku Abdul Rahman, Malaysia
Mohd Shahir Bin Kasim, Universiti Teknikal Malaysia Melaka, Malaysia
EDWIN GOH BOON HOE, University of Nottingham Malaysia Campus
Azzura Binti Ismall, Universiti Tun Hussein Onn Malaysia, Malaysia

Beddiaf ZAIDI, University of Batna, Algeria. Junwei Gu ,University of Northwestern Polytechnical, China.

Stefan Talu, University of Cluj-Napoca, Romanian

Tongsai Jamnongkan, Faculty of Sciecne at Sriracha, Kasetsart University

NORSHUHAILA MOHAMED SUNAR, Universiti Tun Hussein Onn Malaysia, Malaysia

Osman Adiguzel, Department of Physics, Firat University

Yasin POLAT, Nevşehir Hacı Bektaş Veli University, Turkey

Charafeddine Jama, Université de Lille, France

Sponsor

BOSI Education & Consultancy Co., Ltd

BOSI Education & Consultancy Co., Ltd dedicates to organize worldwide academic conference. BOSI EDU cooperate with IEEE (Institute of Electrical and Electronics Engineers), IEEE Harbin (Dalian) Section CIS Chapter and top university from in and out China by arranging and holding slap-up conferences on electrical engineering and automation, computer science, information technology, mechanic, materials, manufacturing engineering etc.. It creates and offers opportunities for experts, researchers and scholars from all over the world to present their technological advances and research results.