

Preface

Dear Distinguished Authors and Guests,

It was a great pleasure to welcome all participants in the 2019 2nd International Conference on Metal Material Processes and Manufacturing (ICMMPM 2019) held in Jeju Island, South Korea 30-31 July 2019.

Since the first ICMMPM in Jeju Island, South Korea (2018), a series of ICMMPM has been held in Asia: the 2nd, Jeju Island, South Korea (2019).

The aim of 2nd ICMMPM2019 was to gather professors, researchers and scholars all over the world. ICMMPM2019 will provide leading academy and industry scientists a platform to communicate recent advances in Metal Material Processes and Manufacturing Research and an opportunity to establish multilateral collaborations.

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. Dong-Won Jung

Jeju National University, Jeju Island, South Korea

August 12, 2019

Committee

Conference Secretary

Joy Lv, X-Academy

Program Committee

Prof. Dong-Won Jung, Jeju National University, South Korea
Prof. Marcin Barburski, Lodz University of Technology, Poland
Dr. Roya Darabi, Jeju National University, South Korea
Dr. Wu-Le Zhu, Kyoto University, Japan
Prof. Hwang Yi, Ajou University, South Korea
Dr. Oscar Hui, University of East Anglia, UK
Prof. Ing. Abdullah Al-Janabi, Sultan Qaboos University, German
Prof. Fatma Yalcinkaya, Technical University of Liberec, Turkey
Prof. Huan-Liang Tsai, Da-Yeh University, Taiwan
Dr. Kim Si jin, Samsung Display Company, South Korea
Dr. Brouri Adil, Moulay Ismail University, Morocco
Prof. Ghorbel Elhem, University of Cergy-Pontoise, France
Dr. Abdeen Mustafa Omer, Energy Research Institute (ERI), Nottingham, UK
Dr. Hugo Miguel Andrade Lopes Figueiredo da Silva, University of Minho, Portugal
Prof. Debili Mohamed Yacine, Badji-Mokhtar University, Algeria
Prof. Mohamed Abdel Moneim Deyab, Egyptian Petroleum Research Institute (EPRI), Cairo, Egypt
Prof. Ayssar Nahlé, University of Sharjah, Sharjah
Dr. Zh. Algazy, Satbayev University, Kazakhstan
Dr. Rajiv Kumar, Goswami Ganesh Dutt Sanatan Dharam College, India
Dr. Subhasis Roy, University of Calcutta, India
Dr. Siamak Hoseinzadeh, Islamic Azad University, Iran
Dr. Yasin Polat, Erciyes University, Turkey
Prof. Dr. N. Ethiraj, Dr. M.G.R Educational and Research Institute, Chennai
Prof. Farid Abed-Meraim, Laboratory of Microstructure Analysis and Mechanics of Materials, French
Prof. Dr. Osman Adiguzel, Ankara University, Turkey
Dr. Yasin Polat, Nevşehir Hacı Bektaş Veli University, Turkey
Assoc. Prof. Achanai Buasri, Silpakorn University, Thailand
Dr. Antonio Riveiro Rodríguez, University of Vigo, Spain
Prof. Ji Shijun, Jilin University, China
Dr. Brahim Safi, University M'hamed Bougara of Boumerdes, Algeria
Prof. Arnulfo Luévanos-Rojas, Autonomous University of Coahuila, México
Dr. Yanjun Li, Florida Atlantic University, USA
Assoc. Prof. Dr. Soumya Mukherjee, Amity University, India
Dr. Beddiaf Zaidi, University of Batna 1, Algeria
Prof. Vineet Jain, Amity University Haryana, Gurgaon
Associate Prof. Jin-Young Kim, Ulsan National Institute of Science and Technology, South Korea
Assistant Prof. Ankit Gupta, School of Engineering, Shiv Nadar University, Gr. Noida, India

Ph.D. Grzegorz Woroniak, Bialystok University of Technology, Poland
Assistant Prof. Manjunath Shettar, Manipal Institute of Technology, India
Dr. T. Theivasanthi, Kalasalingam University, India
Dr. Aruri Devaraju, National Institute of Technology Warangal, India
Prof. Bappa Acherjee, Department of Production Engineering Birla Institute of Technology, India
Prof. Walid Tawfik Younes Mohamed, Cairo University, Egypt
Dr. R.Viswanathan, Swami Vivekananda Institute of Technology, Secunderabad, India
Dr. Samson Jerold Samuel Chelladurai, Mechanical Engineering, Sri Krishna College of Engineering and Technology, India
Dr. Anjanapura V. Raghu, JAIN University, India
Associate Prof. Mamoun Fellah, Mechanical Engineering department Abbes LAGHOUR, Khenchela University, Algeria
Associate Prof. Siti Ujila Masuri, Universiti Putra Malaysia, Malaysia
Dr. Iman Bagherpour, National Iranian Gas Company, Iran
Dr. Ghulam Hasnain Tariq, Khawaja Fareed University of Engineering & Information Technology, Pakistan.

Sponsor

X-Academy

X-academy dedicates to organize worldwide academic conference. X-academy 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.