

# ETME 2018

EMERGING TECHNOLOGIES IN MECHANICAL ENGINEERING

AUGUST 19-22, 2018  
 RAMADA PLAZA JEJU HOTEL, JEJU, KOREA

The 1st Emerging Technologies in Mechanical Engineering (ETME 2018) will be held at the Ramada Plaza Jeju Hotel (Jeju, Korea) on August 19-22, 2018.

The ETME, which is held every two years, is hosted by the Korea Society of Mechanical Engineers (KSME), the Chinese Mechanical Engineering Society (CMES) and the Japan Society of Mechanical Engineers (JSME), but it is an academic conference involving mechanical engineers from all over the world. Mechanical engineering should take another leap forward with emerging technologies not only from inside mechanical engineering, but also from outside, based on artificial intelligence, big data, IOT and so on. In this regard, the need for academic conferences to discuss various emerging technologies in depth in the field of mechanical engineering is somewhat late.

The 1st ETME is aimed at promoting cooperation not only among researchers and engineers around the world but also between all experts in the mechanical engineering field. This conference will provide various programs such as plenary speeches, invited talks, and oral/poster sessions, covering the following key themes. We look forward to your submission of abstracts regarding emerging technologies in all areas of Mechanical Engineering.

General chairs of ETME 2018

Wan Doo Kim, Korea Institute of Machinery & Materials, Korea  
 Li Peigen, Huazhong University of Science and Technology, China  
 Marie Oshima, The University of Tokyo, Japan

## ◆ Lecturers

**Plenary Lecturers**

- Youn Young Kim, Seoul National University, Korea
- Li Peigen, Huazhong University of Science and Technology, China
- Hajime Asama, The University of Tokyo, Japan

**Keynote Lecturers**

- Changhoon Lee, Yonsei University, Korea
- Chang Woo Lee, Korea Institute of Machinery & Materials, Korea
- Tu Shandong, East China University of Science and Technology, China
- Chen Ming, Tongji University, China
- Shuji Tanaka, Tohoku University, Japan
- Shinji Deguchi, Osaka University, Japan

## ◆ Topics of interest include (but are not limited to):

- Advanced Manufacturing Technology
- Advanced Technologies in Safety, PHM and Reliability
- Alternative Fuel & Renewable Energy Technology
- Emerging Applications of 3D Printing
- Emerging Technologies in Fluids Engineering
- Emerging Transportation Technologies
- IT Applications in Mechanical Systems
- Multidisciplinary Micro/Nano Systems Engineering
- Next Generation Computational Studies
- Other Emerging Technologies in Mechanical Engineering
- Advanced Robotics and Mechatronics
- AI Applications in Mechanical Engineering
- Biomedical Engineering and Biotechnology
- Emerging Technologies in Engineering Materials
- Emerging Technologies in Thermal Engineering
- Innovative Pedagogy and Learning Methodologies
- Metamaterial Technologies
- Nature-Inspired/Biomimetic Technologies
- Smart Machines, Smart Factory and Automation

## ◆ Important Dates

Deadline for one-page abstract submission	March 16, 2018
Notification of acceptance	April 20, 2018
Deadline for final revised abstract submission	May 18, 2018
Early-bird registration	May 18, 2018

## ◆ Organizing Committee

**General Chairs**

- Wan Doo Kim, Korea Institute of Machinery & Materials, Korea
- Li Peigen, Huazhong University of Science and Technology, China
- Marie Oshima, University of Tokyo, Japan

**Advisory Committee**

- Hyung Hee Cho, Yonsei University, Korea
- Zhang Yanmin, Chinese Mechanical Engineering Society, China
- Naoya Sasaki, Hitachi, Ltd., Japan

**Program Chairs**

- Jae-Bok Song, Korea University, Korea
- Wang Decheng, China Academy of Machinery Sciences, China
- Shin Morishita, Yokohama National University, Japan

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- Doo Yong Lee, Korea Advanced Institute of Science and Technology, Korea

**Special Program Chair**

- Jae Jong Lee, Korea Institute of Machinery & Materials, Korea

**Publicity Chairs**

- Eui-Sung Yoon, Korea Institute of Science and Technology, Korea
- Lu Daming, Chinese Mechanical Engineering Society, China

**Local Organizing Chair**

- Cheol Kim, Kyungpook National University, Korea

**Finance Chair**

- Chan Il Park, Gangneung-Wonju National University, Korea

**Exhibition Chair**

- Heon-Sul Jeong, Kunsan National University, Korea

**Award Chairs**

- Haecheon Choi, Seoul National University, Korea
- Zhou Yu, Harbin Institute of Technology, China

**Publication Chairs**

- Maenghyo Cho, Seoul National University, Korea
- Wang Shuqin, Chinese Mechanical Engineering Society, China

**Secretary**

- Jun Hee Lee, Korea Institute of Machinery & Materials, Korea

## ◆ ETME 2018 Secretariat

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