

Preface

This special volume includes the papers presented in the First Asia Pacific Symposium on Technology of Plasticity (APSTP 2017) held at National Chung Hsing University, Taichung, Taiwan on November 22-25, 2017. APSTP 2017 features technical and keynote presentations, the most current and relevant trends in academia, industry, and a cultural excursion program. The topics of the symposium covered metal forming technologies, robotics and automation, smart manufacturing technology in metal forming for Industry 4.0, manufacturing management, E-manufacturing and E-business Integration.

There were 87 abstract submissions, among which 53 were invited to submit the full papers. After the Scientific Committee reviewed, 39 papers were accepted to present in the APSTP and included in this special issue. Most of attendees come from China, Japan, Korea, Russia, and Taiwan. In addition, two keynote and four plenary speakers presented their excellent research results and technical points of development trend. APSTP offers a great platform for scholars to communicate idea and share experience. Therefore, the attendees request to continue the organizing of APSTP every year.

On behalf of the Organizing Committee, we would like to thank the Ministry of Science and Technology (MOST) in Taiwan for the financial supports and advice. We would like to acknowledge all the authors for their contributions.



Editor Dr. Gou-Jen Wang, National Chung Hsing University, Taiwan



Editor Dr. Yeong-Maw Hwang, National Sun-Yat San University, Taiwan



Editor Dr. Kuang-Jau Fann, National Chung Hsing University, Taiwan



Editor Dr. Cho-Pei Jiang, National Formosa University, Taiwan

Committees

General Chairman

- Fuh-Sheng Shieu, National Chung Hsing University, Taiwan

Honor Chair

- You-Min Huang (National Taiwan University of Science and Technology, Taiwan)
- Rong-Shean Lee (National Cheng-Kung University, Taiwan)

Program Chairmen

- Gou-Jen Wang (Dean of College of Engineering, National Chung Hsing University, Taiwan)
- Yeong-Maw Hwang (Chairman of Taiwan Society for Technology of Plasticity, National Sun Yat-Sen University, Taiwan)

International Scientific Committee

- Fuh-Kuo Chen (Taiwan)
- Tsuyoshi Furushima (Japan)
- Zhubin He (China)
- Yeong-Maw Hwang (Taiwan)
- Hyoung Seop Kim (Korea)
- Toshihiko Kuwabara (Japan)
- Myoung-Gyu Lee (Korea)
- Heng Li (China)
- Shuhui Li (China)
- Young Hoon Moon (Korea)
- Debin Shan (China)
- Hiroshi Utsunomiya (Japan)
- Xin-Yun Wang (China)
- Zhigang Wang (Japan)
- Qinxiang Xia (China)

International Advisory Committee

- Kuang-Jau Fann (Taiwan)
- Yeong-Maw Hwang (Taiwan)
- Cho-Pei Jiang (Taiwan)
- Hyoung Seop Kim (Korea)
- Gang Liu (China)
- Debin Shan (China)
- Ming Yang (Japan)

Technical Committee

- Yum-Ji Chan (Taiwan)
- Jau-Liang Chen (Taiwan)
- Ya-Yu Chiang (Taiwan)
- Ching-Liang Dai (Taiwan)
- Kuang-Jau Fann (Taiwan)
- Chu-Yu Huang (Taiwan)
- Ching-Hung Lee (Taiwan)
- Ming-Tsang Lee (Taiwan)

- Chien-Hung Liu (Taiwan)
- Ming-Chyuan Lu (Taiwan)
- Hsi-Fu Shih (Taiwan)
- Chia-Che Wu (Taiwan)
- Tian-Yau Wu (Taiwan)

Committee Members

- Jong-Ning Aoh (Taiwan)
- Chao-Cheng Chang (Taiwan)
- Yin-Yu Chang (Taiwan)
- Chang-Cheng Chen (Taiwan)
- Dyi-Cheng Chen (Taiwan)
- Fuh-Kuo Chen (Taiwan)
- Tsung-Chia Chen (Taiwan)
- Kuang-Jau Fann (Taiwan)
- Huey-Lin Ho (Taiwan)
- Shao-Yi Hsia (Taiwan)
- Su-Hai Hsiang (Taiwan)
- Quang-Cherng Hsu (Taiwan)
- Ray-Quan Hsu (Taiwan)
- You-Min Huang (Taiwan)
- Chinghua Hung (Taiwan)
- Yeong-Maw Hwang (Taiwan)
- Cho-Pei Jiang (Taiwan)
- Yung-Chou Kao (Taiwan)
- Chin-Tarn Kwan (Taiwan)
- Rong-Shean Lee (Taiwan)
- Woei-Shyan Lee (Taiwan)
- Daw-Kwei Leu (Taiwan)
- Bo-Cun Lin (Taiwan)
- Heng-Sheng Lin (Taiwan)
- Shen-Yung Lin (Taiwan)
- Sheng-Li Lin (Taiwan)
- Chun-Ho Liu (Taiwan)
- Jinn-Jong Sheu (Taiwan)
- Chung-Yu Tsai (Taiwan)
- Gow-Yi Tzou (Taiwan)
- Tung-Shang Yang (Taiwan)
- Wei-Ching Yeh (Taiwan)

Organizers

National Chung Hsing University (NCHU), Taiwan
China Society for Technology of Plasticity (CSTP)
Taiwan Society for Technology of Plasticity (TSTP)
Korean Society for Technology of Plasticity (KSTP)
Japan Society for Technology of Plasticity (JSTP)

Sponsors

Ministry of Science and Technology (Taiwan)
National Chung Hsing University (Taiwan)
China Steel Corporation (Taiwan)