

## **Advanced Information and Communication Technology for Future Manufacturing**

Industry 4.0 are creating intelligent networks along the entire product value chain by connecting machines, work pieces and systems, businesses. Following Industry 4.0, China published “Made in China 2025” as the guide for China’s manufacturing strategy to promote product innovation capacity, resource utilization efficiency, industrial infrastructure quality and manufacturing digitalization degree. Both Industry 4.0 and Made in China 2025 represent the current trend of automation and data exchange in manufacturing technologies. In order to facilitate innovative collaboration on intelligent manufacturing between China and European Union, here we plan to organize a workshop of Advanced Information and Communication Technology for Future Manufacturing co-located with IEEE/ASME International Conference on Advanced Intelligent Mechatronics 2018 main conference. Accepted papers will be published in IEEE Press.

The research topics of the workshop include, but are not limited to:

- Business and innovation in intelligent manufacturing
- Product and industrial management
- Modeling and simulation of complex manufacturing systems
- Advanced manufacturing equipment and control
- Networked manufacturing systems
- Monitoring and fault diagnosis for electromechanical systems
- Digital design, digital factory, and manufacturing
- Internet of Things and manufacturing
- Human-machine interface in automobiles,
- Artificial intelligence in manufacturing
- Big Data and data mining in manufacturing
- Virtual manufacturing and virtual assemblies
- High-mix low-volume flow manufacturing
- Social manufacturing, 3D printing, robotics and control
- Computer integrated manufacturing systems

### **Program Committee**

Jiehan Zhou, Susanna Pirttikangas, University of Oulu, Finland

Xiwei Liu, Gang Xiong, Chinese Academy of Science, China

Risto Lehtinen, Matti Hämäläinen, DIMECC, Finland

Osmo Kauppila, Oulu University, Finland

Markus Prandini, Zurich University of Applied Sciences, Switzerland

Wenhui Fan, Linxun Zhang, Tsinghua University, China

Xuekun Li, Liping Wang, Tsinghua University, China

Hanwu He, Guangzhou University of Science and Technology, China

Jianping Xuan, Zailin Guang, Huazhong University of Science and Technology, China

Qinliang Zeng, Shangdong University of Science and Technology, China

Rencheng Zheng, University of Tokyo, Japan

Shichao Liu, Beijing Jiaotong University, China

Weishan Zhang, China Petroleum University, China

### **Contact**

Xiwei Liu, Chinese Academy of Science, China, xiwei.liu@ia.ac.cn

Jiehan Zhou, University of Oulu, jiehan.zhou@oulu.fi