

MIM 2019 Conference invited session proposal

Title: Application of Artificial Intelligence in Manufacturing and Transportation

Description:

With the advent of new technologies, AI has been driving the evolution of the next generation of intelligent manufacturing and transportation systems.

This session will be mainly focused on the application of AI-based methodology in manufacturing and transportation, including but not limited to the followings:

- Multi-agent systems
- Complex systems
- Metaheuristics with swarm intelligence
- Machine learning
- Data mining
- Big data analysis
- Artificial neural network
- Deep learning
- Robotics

Other relevant topics such as: common and persistent challenges of AI in manufacturing/transportation, newly evolving techniques of AI and manufacturing/transportation, ethic issues of AI and case studies etc. will also be covered.

This session will present both current research and practical applications of AI in manufacturing and transportation. It is intended to be of interest to academic scientists and practitioners alike, particularly those working on the relevant area. The audience will be exposed to the most current thinking and practice of AI application in manufacturing and transportation, and gain a comprehensive roadmap of the future prospects of AI and manufacturing/transportation technology from aspects of both academia and industry.