

2019 IEEE International Conference on Industrial Cyber-Physical Systems (ICPS2019)
2019 IEEE International Conference on Multisensor Fusion and Integration for Intelligent Systems
(MFI2019)

Howard Hotel Taipei, Taiwan

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Special Session on “Industrial Wireless Networks: Applications, Challenges and Trends” organized by

Principal Organizer: Prof. Kan Yu (k.yu@latrobe.edu.au)
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Call for Paper

Today we see the rapid proliferation of wireless communication solutions in industrial automation sectors to promote the next industrial revolution— the interconnection of machines, processes and humans. But many research challenges are imposed by industrial wireless technologies to meet the ultrahigh reliability and ultralow latency requirements as well as security and safety in mission-critical automation and control systems, be it robotic networks and discrete manufacturing or process automation.

This special session is targeted at researchers and industrialists to present and discuss research work related to innovative approaches, theory and methodology of applying wireless technologies in industrial domains.

Topics of interest include, but are not limited to:

- Concepts, methodology and solutions for ultra-reliable and low latency industrial wireless communication technologies
- Enhanced industrial network architectures, including the convergence of wired and wireless communications.
- Industrial wireless sensor and actuator network for monitoring and control
- Measurements and channel modelling for various industrial environments
- Energy-efficient data transmission for wireless machine-type communications
- Application-driven cross-layer optimization of communication layers
- Edge and fog computing for low latency industrial wireless network
- Lightweight security solutions for industrial wireless network
- Emerging 5G technology for industrial automation applications

Submissions Procedure: All the instructions for paper submission are included in the conference website <http://icps19.org/final-paper-submission>

Deadlines:

Reception of full paper:	November 30, 2018
Paper acceptance notification:	January 31, 2019