

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

May 6-9, 2019

**Special Session on
“Industrial Standards and Interoperability Plugfest – I & II”
organized by**

Principal Organizer: Dr. Allen Chen (c.j.chen@ieee.org)
Innovatech Solutions

Organizer 1 : Prof. Kim Fung Tsang (ee330015@cityu.edu.hk)
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Sage Technology Resources

Call for Papers

Industrial standards have always been the driving force in industry in terms of interoperability, ease of use, compatible connectivity such that to reduce cost and faster time to market and to enable the rapid development of new technologies. This is pervasive in all industrial domains - factory automation, buildings and energy management and control, transportation, smart city infrastructure, health care and consumer electronics. Industrial electronics will be at the forefront with new initiatives and applications coming in the form of IoT/IIoT, smart grids, connected vehicles, and many more.

This session will solicit all areas and active research and experimentation that explore and implement interoperability and industrial standards in all the various industrial domains and verticals. Applications will be in industrial agents, industrial cyber-physical systems, smart transducer networks, and IoT indexing, among others. A mini-plugfest will be included to provide participants to share backgrounds and activities in interoperability and compliance. This hands-on session will be the second part of this session.

Following the first session, this session is a hands-on mini-plugfest to provide participants to share backgrounds and activities in interoperability and compliance, including industrial standards or the development of industrial standards. Plugfest demonstrations will focus on areas of industrial agents, industrial cyber-physical systems, smart transducer networks, and IoT indexing, among others. Use cases and demonstrations in following IEEE standards and draft standards are welcome (IEEE P1451.002, IEEE P2660, IEEE P2668, IEEE P1451.1.6, IEEE P1451.5 NB-IoT, IEEE 1451.001-2017, IEEE 61158-2017)

Topics of interest include, but are not limited to:

Smart Transducer networks utilizing IEEE 1451 standards
Industrial agents applications in factory automation and related applications, including standardization utilizing IEEE P2660 standards development
IoT Indexing IEEE P2668 – specifications and techniques for the evaluation, grading and ranking of the performance of IoT objects
5G test beds innovations and applications, emerging 5G technology standards in telecommunications applications
Emerging wireless coordinated, uncoordinated, coordinated-to-uncoordinated LPWA technology standards and harmonizations, e.g NB IoT, LoRa, SigFox, Telensa, MulteFire,...
Emerging applications and standards for smart multi-purpose lampposts, smart metering, Green harbour, IoT leakage, IoT Trees, IoT Bike navigation,.....
Prevention of cyber threats on smart sensors, compliance, cyber intrusion
Use cases in Industrial standards and interoperability in industrial cyber-physical systems (OPC-UA, etc)
Standardization processes for sensors/actuators and transducer systems in low power energy modes (IEEE P1451.002), and signal processing conditioning (IEEE 1451.001-2017)
Use cases and industrial applications utilizing hard real-time communications and similar protocols (IEEE 61158-2017)

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