

IEEE ETFA 2018
2018 IEEE 23rd International Conference on Emerging Technologies and Factory Automation
Torino, Italy, September 4-7, 2018

Special Session SS01. on “Industrial Wireless Networking”



ORGANIZED AND CO-CHAIRIED BY

Mikael Gidlund, Mid Sweden University, Sweden, mikael.gidlund@miun.se

Tomas Lennvall, Örebro University, Sweden, tomas.lennvall@oru.se

Maria Rita Palattella, Luxembourg Institute of Science and Technology (LIST), Luxemburg, mariarita.palattella@list.eu

Stefano Scanzio, National Research Council of Italy (CNR-IEIIT), Torino, Italy, stefano.scanzio@ieiit.cnr.it

OUTLINE

Wireless communication is very appealing for a broad range of automation applications, including industrial process monitoring and control, home and factory automation, smart (industry, environment and agriculture), building and structural monitoring and energy management. Wireless communications in the automation domain impose a number of research challenges, such as communication dependability, bandwidth management, latency issues and energy efficiency. In dynamic environments, very challenging research issues arrive when non-functional properties, such as real-time behavior and adaptability, must be enforced. We solicit technical papers describing original ideas, theory, methodology and experiences from the design, implementation and deployment of wireless networks for industrial automation

TOPICS

- Advanced network architectures and protocols for industrial wireless sensor and actuator networks (WSANs)
- Dependable wireless industrial networks
- High-reliable and low-latency wireless industrial networks
- Integration and coexistence of heterogeneous wireless networks
- Networks performance, simulation, modelling and case studies of WSANs
- Standardization effort for high dependable Industrial Internet of Things (IIoT)
- Dependable wireless communications for smart factory, smart agriculture, and smart environment
- Security and Safety concerns in IIoT

Author's schedule (NEW!!!):

- Deadline for submission of special session papers:
April 27, 2018
- Notification of acceptance
June 1, 2018
- Deadline for submission of final manuscripts
July 6, 2018