IEEE INTERNATIONAL CONFERENCE ON INDUSTRIAL TECHNOLOGY ICIT'19

13 - 15 FEBRUARY 2019, MELBOURNE CONVENTION AND EXHIBITION CENTRE, MELBOURNE, AUSTRALIA

Special Session on

"Industrial Wireless Networking"

Organized by

Principal Organizers:

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

Adjunct Prof. Johan Åkerberg (johan.akerberg@se.abb.com) - ABB Corporate Research, Sweden

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

Call for Papers

Theme: Wireless communication is very appealing for a broad range of automation applications, including industrial process monitoring and control, home and factory automation, environmental, building and structural monitoring and energy management. Wireless communications in the automation domain impose a number of research challenges, such as communication reliability, 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 systems for industrial automation. Topics of interest include, but are not limited to:

- Advanced network architectures and standards for industrial sensor and actuator networks
- Protocols for reliable and real-time wireless communication
- Integration and coexistence of heterogeneous wireless networks
- Wireless sensor and actuator networks performance, simulation, RF measurements, modeling and case studies
- Control over wireless networks
- Security and safety issues in industrial wireless networks
- Emerging wireless concepts, such as related to Internet-of-Things, for industrial applications
- 5G for industrial automation

- **IES Technical Committee Sponsoring the Special Session:**

  IEEE IES Technical Committee on Factory Automation
  IEEE IES Technical Committee on Cloud and Wireless Systems for Industrial Applications.

Accepted papers will be published in an IEEE proceedings volume and will be also submitted for the International Publication in *IEEExplore*