ETFA 2025 Porto Portugal 9-12 September

30th IEEE International Conference on Emerging Technologies and Factory Automation

Call for Papers
SS09 – Industrial Wireless Systems Measurements, Performance Assessment, and Standardization

Organized and Chaired by

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❖ **FOCUS**. Wireless communications emerge as an enabling technology for facilitating industrial system communications by providing high flexibility, ease of reconfiguration, and lower installation costs. Reliability and latency in industrial wireless network applications are essential. Industrial wireless environments can be harsh and demanding due to physical layout, objects deployed, and interference. In mission-critical industrial applications, signal and data transmission loss and retransmissions would not be allowed. Thus, expected wireless system performance must be appropriately managed, quantified, measured, and assessed to maximize user benefits and widen the adoption of wireless technology in factory automation and industrial environments.

❖ **TOPICS**

- Industrial Wireless test and evaluation methods
- Wireless Evaluation and Standardization
- Advanced wireless protocols and reliability and latency enhancements
- Wireless reliability and latency performance evaluation studies
- Wireless systems for time-critical applications
- Wireless platforms for performance testing
- Electromagnetic environment monitoring and management
- Interference measurement and modeling
- Real-world industrial wireless testbeds and demonstrations
- Robust and Resilience Wireless Modulation and Protocols
- Machine learning (ML) and artificial intelligence (AI) tools

❖ **AIM.** This Special Session aims at bringing together professionals from industry, academia, and government to share cutting-edge concepts, recent developments, research results, and practical achievements in industrial wireless systems measurements, performance assessment, and standardization.

❖ **CONFERENCE FORMAT**. The conference will comprise multi-track sessions for regular papers, to present significant and novel research results with a prospect for a tangible impact on the research area and potential implementations, as well as work-in-progress (WiP) and industry practice sessions.

❖ **AUTHOR'S SCHEDULE (2025)**

❖Regular and special sessions papers
Submission deadline ..... **April 18**
Acceptance notification ..... May 23
Deadline for final manuscripts ..... July 4

❖Work-in-progress/Industry practice papers
Submission deadline ..... **May 30**
Acceptance notification ..... June 20
Deadline for final manuscripts ..... July 4