ETFA 2026
Västerås Sweden 8-11 September

31st IEEE International Conference on Emerging Technologies and Factory Automation

Call for Papers
Track 2 – Industrial Communication Technologies and Systems

Track chairs
Zenepe Satka *, Gaetano Patti §

* Mälardalen University, Sweden, zenepe.satka@mdu.se
§ University of Catania, Italy, gaetano.patti@unict.it

FOCUS. The track is focused on industrial communication technologies, including tasks such as modeling, analyzing, and synthesizing provably correct systems, as well as characterizing application requirements, implementing solutions, evaluating performance, conducting validation, and case studies.

TOPICS

- Industrial networks
- Integration and interoperability of automation networks
- Middleware and decentralized control for industrial communications
- IP-based and web-based industrial communications
- Software-Defined Networks and cognitive radio networks
- Wireless, sensor, and multi-hop networks
- Wireless coexistence, 5G/6G and beyond, spectrum-sharing, and radio resource management in industrial systems
- Advancements in WiFi 7 and WiFi 8 technologies for latency-sensitive industrial applications
- Time-Sensitive Networking (TSN)
- Integration of TSN with next-generation wireless networks (5G/6G, WiFi)
- Quality of Service (QoS) and performance indexes
- Industrial Internet of Things (IIoT) and Machine-to-Machine (M2M) communications
- Remote configuration and network management
- Real-time communication and precise synchronization
- Event-driven and time-triggered communications
- Energy efficiency and sustainable industrial communication
- Artificial Intelligence and Machine Learning for industrial networks

Track Program Committee

- Anna Baron, Friedrich-Alexander-Universität, Germany
- Anna Friebe, Mälardalen University, Sweden
- Claudio Zunino, CNR-IEIIT, Italy
- Dave Cavalcanti, Intel Labs, Oregon, USA
- Emiliano Sisinni, University of Brescia, Italy
- Gianluca Cena, CNR-IEIIT, Torino, Italy
- Henning Trsek, Institute Industrial IT - inIT/TH-OWL, Germany
- Jetmir Haxhibeqiri, Ghent University, Belgium
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- Marisol García Valls, Universitat Politècnica de València, Spain
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- Ognjen Dobrijevic, ABB Corporate Research, Sweden
- Paolo Ferrari, University of Brescia, Italy
- Paulo Portugal, University of Porto, Portugal
- Ramez Daoud, The American University in Cairo, Egypt
- Roman Obermaisser, University of Siegen, Germany
- Silviu Craciunas, TTTech Labs, Austria
- Stefano Scanzio, CNR-IEIIT, Torino, Italy
- Stefano Vitturi, CNR-IEIIT, Padova, Italy
- Valerio Frascolla, Intel Labs, Germany

- **AIM.** The aim of the conference is to bring together the international community to present the latest research results, share new ideas and engineering breakthroughs, and discuss state-of-the-art challenges and future directions in technology and innovation in the broad domain of Automation with a focus on Industrial and Factory Automation.

- **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 (2026)**

  - Regular and special sessions papers
    - Submission deadline .... April 19
    - Acceptance notification .... May 25
    - Deadline for final manuscripts .... July 4

  - Work-in-progress/Industry practice papers
    - Submission deadline .... May 31
    - Acceptance notification .... June 19
    - Deadline for final manuscripts .... July 4

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