# 22nd IEEE International Conference on Factory Communication Systems




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# Call for Tutorials

Research on factory communications has gained increasing relevance in recent years, with communication playing a fundamental role in automation systems. Advanced communication/ networking technologies and paradigms such as 5G/6G, WiFi7/WiFi8, Ethernet TSN, OPC UA, network softwarization, IIoT, have opened up a multitude of application possibilities in the industrial scenario. However, the availability of a variety of communication solutions, often employed in combination to meet the needs of different applications, have led to highly complex and heterogeneous factory communication systems. This complexity gives rise to new challenges that must be addressed to fully exploit the potential of these advancements towards a new generation of smart, autonomous, flexible and efficient automation systems.

The conference, supported by the IEEE Industrial Electronics Society (IEEE-IES) and led by the IEEE-IES Technical Committee on Factory Automation (IEEE-IES TCFA), will be hosted by the Offenburg University (Germany) and organized in collaboration with Institute of Electronics, Computer and Telecommunication Engineering CNR-IEIIT (Italy).

## FOCUS

The conference primarily focuses on (but is not limited to) the following areas:

- Wired and Wireless Industrial Communication Systems and Technologies
- Industrial Internet of Things (IIoT)
- Cloud/Fog/Edge Computing Architectures and Applications in Industrial Automation
- Machine Learning and Data Analytics for Industrial Communication Systems
- Security and Safety of Industrial Communication Systems
- Fault tolerance for reliability and availability of Industrial Communication Systems
- Communication Protocols, Standards, and emerging technologies for Real-Time and Networked Embedded Systems (5G/B5G/6G, WiFi7/WiFi8, TSN, IEC 61850, IEC 62439, etc.)
- Communication in Cyber-Physical Systems and Distributed Control Systems
- Communication Challenges in Collaborative Robotics and Automation
- Traffic Scheduling and Application-Network Integration
- Case Studies, Industry Practices and Lesson Learned in Factory Communication
- Recent Advances in Communications in Research Domains with Similar Requirements/ Characteristics (Smart Cities, Smart Grid, Smart Transportation, Smart Health, Ambient Assisted Living, Smart Building/ Smart Home, Smart Agriculture, etc.)
- Management aspects related to heterogeneous industrial Networks

## TUTORIAL SUBMISSION

Tutorials have a duration of three hours. Apply for a tutorial with the following information (download the form in the conference website):

- **Title**
- **Names and Affiliations of Speakers** (short cv for every presenter with contact information)
- **Abstract** (one or two paragraphs)
- **Description:** A statement (no more than 2 pages) providing the relevance of the tutorial topic and a comprehensive outline of the tutorial content.
- **Duration** 90 min/120 min

The tutorial proposals will be reviewed by the IEEE WFCS 2025 program committee and will be approved based on the availability of tutorial time-slots as well as on the following criteria: (i) Extent and significance of the tutorial contribution or insights into best practices, (ii) potential impact on the audience, and (iii) quality and depth of the proposed tutorial presentation.

Website: https://hs-offenburg.de/wfcs26

WFCS 2026

## IMPORTANT DATES

| SS proposals: | Regular/SS submissions: | WiP/Demo submissions: |
|---|---|---|
| Deadline: **November 17**, 2025 | Deadline: **January 11**, 2026 | Deadline: **February 27**, 2026 |
| Notifications: **November 21**, 2025 | Notifications: **February 22**, 2026 | Notifications: **March 15**, 2026 |
| | Final versions: **March 1**, 2026 | Final versions: **March 20**, 2026 |

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