

15th IEEE International Workshop on Factory Communication Systems

May 27-29, 2019 – Sundsvall, Sweden



CALL FOR PAPERS

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SCOPE

WFCS is the largest IEEE conference especially dedicated to industrial communication systems and solutions. The aim of the WFCS series is to provide a forum for researchers, developers and practitioners to review and discuss most recent trends in the area and share innovative research directions.

FOCUS

- **INDUSTRIAL COMMUNICATION SYSTEMS AND SOLUTIONS:** fieldbus technologies; real-time Ethernet; industrial Ethernet; wired, wireless and hybrid industrial networks; Industrial Wireless Sensor/Actuator Networks (IWSANs); Time Sensitive Networks (TSN); Time Triggered (TT) systems and protocols; real-time communications; time synchronization for industrial networks; Coexistence and interference management in industrial wireless networks; Integration in Industrial Systems; Industrial network interoperability.
- **INDUSTRIAL CYBER-PHYSICAL SYSTEMS (ICPS):** ICPS communication architectures; ICPS Technologies for interoperability; Connectivity between OT and IT; networked embedded systems; Cooperative industrial systems; Location awareness and mobility management; Multi-agent industrial systems; ICPS Applications.
- **INDUSTRIAL NETWORK PERFORMANCE EVALUATION:** industrial network protocol analysis tools; industrial network configuration and debug tools; industrial network management tools; Methods and techniques for industrial network performance assessment; Measurement issues in Industrial Internet of Things; Industrial network equipment characterization; In-service testing; Industrial Communication Protocol analysis; Conformance and interoperability testing of Industrial networks.
- **INDUSTRIAL NETWORK SAFETY AND SECURITY:** high dependability industrial networks; mixed criticality systems; fault-tolerance; risk analysis

and assessment; safety and certification; Internet and Intranet access; cyber-security; protection and countermeasures; industrial firewalls and intrusion detection systems (IDSs); formal description techniques and verification of industrial protocol and applications; dissemination, identification, and defense against industrial malware/botnets.

- **INDUSTRIAL INTERNET:** Industrial Internet of Things; Communication solutions for Industry 4.0 applications and scenarios; Networking systems for Industrial big data analytics and metrics; Industrial cloud and edge computing network solutions; industrial middleware solutions; Software-defined networks (SDN) and Network Function Virtualization (NFV) for Industrial communications; web-based setup; configuration and maintenance; Applications, testbeds and case studies.
- **GREEN COMMUNICATION IN INDUSTRY:** energy-efficient, resource-saving and environment-friendly networking; energy-saving and energy-harvesting techniques; green design; Green Scheduling and Resource Allocation for Industrial Communications.
- **RECENT ADVANCES IN RESEARCH DOMAINS WITH SIMILAR COMMUNICATION REQUIREMENTS:** smart grid communications; 5G and industrial requirements; smart home and building automation networks; Intelligent Transportation Systems (ITSs); vehicle to X networking; smart cities connectivity; Wireless Health Care (WHC).

TYPES OF SUBMISSIONS: WFCS 2019 promotes two types of submissions: Regular Papers - from 6 to 8 double-column pages and Work-in-Progress Papers (WiP) limited to 4 double-column pages. Regular papers give a unique opportunity for receiving the community feedback about new ideas and result. WiP papers enable authors to share late-breaking results, with emphasis on the novelty of the work, rather than the completeness.

SUBMISSION OF PAPERS: Manuscripts must be submitted electronically in PDF format, according to the instructions available on the conference web site. Contributions must contain original unpublished work. Papers that have been concurrently submitted to other conferences or journals (double submissions) will be automatically rejected.

PAPER ACCEPTANCE: each accepted paper must be presented at the conference by one of the authors. The final camera-ready manuscript must be accompanied by a registration form and a registration fee payment proof. All conference attendees, including authors and session chairpersons, must pay the conference registration fee, and their travel expenses.

CONTACTS AND INFORMATION: email: info@wfcs2019.se

AUTHOR'S SCHEDULE – REGULAR PAPERS:
Submission deadline: Mars 4, 2019
Notification for acceptance: March 18, 2019
Deadline for final manuscript: April 22,
2019 Conference: May 27 – 29, 2019

AUTHOR'S SCHEDULE – WIP PAPERS:
Submission deadline: April 1, 2019
Notification for acceptance: April 30, 2018
Deadline for final manuscript: May 6, 2018
Conference: May 27 – 29, 2019