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### **Finance Chair:**

Ahlem Mifdaoui (University of Toulouse, France)

# **Local/Technical Support:**

Gianluca Defelici (*University of Pavia*, Italy)

#### DESCRIPTION

The **Factory Communication** research area is becoming increasingly relevant in last years, with communication playing a fundamental role in many automation systems. New generation technologies, such as 5G/6G, WiFi6/WiFi7, TSN, or OPC UA, open the door to a variety of application possibilities, from general automation to IIoT. On the other hand, due to the high variety of available communication solutions, and the fact that different technologies have usually to be combined together in order to satisfy application requirements, industrial communication systems become highly complex and heterogenous. This condition creates several new challenges that need to be tackled to fully exploit the potential of available communication solutions (including subjects related to network management, traffic optimization, virtualization, energy efficiency, and many others).

The 19<sup>th</sup> edition of WFCS will focus on all forms of communication supporting automation within factories and in other contexts, especially considering recent developments. WFCS is the largest IEEE conference that is especially dedicated to communication for (industrial) automation systems and aims to provide a forum for researchers, developers and practitioners to review and discuss recent trends in the area and share innovative research directions.

The conference, supported by the **IEEE Industrial Electronics Society** (IES) and led by the **Technical Committee on Factory Automation** (TCFA), will be hosted by the University of Pavia (Italy) in collaboration with the Institute on Industrial IT (inIT) of the Technische Hochschule OWL in Lemgo, Germany.

Pavia is located in south-western Lombardy (northern Italy, 35 kilometers - 22 miles - south of Milan). The University of Pavia is one of the world's oldest academic institutions, with its foundations existing as early as the 9<sup>th</sup> Century.

# **FOCUS**

The conference mainly focuses on: Communication Systems and Technologies; Protocols and Standards for Networked Embedded and Cyber-Physical Systems; Real-time, Safety, Security and Maintenance of Automation Systems and Networks; applying Artificial Intelligence and Machine Learning to enhance and Communication Technologies for Industry 4.0; Low-power and Green Communication in Industry; recent advances in research domains with similar communication requirements.

### PAPER SUBMISSION

**Regular/Special Session Papers:** up to 8 double-column pages, following the IEEE conferences template. **Work-in-Progress (WiP) Papers:** up to 4 double-column pages, following the IEEE conferences. template. Accepted WiP papers will be published in the conference proceedings.

Website: wfcs23.unipv.it



### **IMPORTANT DATES**

### Special session proposals:

Deadline: December 10<sup>th</sup>, 2022 Notifications: December 17<sup>th</sup>, 2022

### Regular and SS submissions:

Deadline: February 3<sup>rd</sup>, 2023 Notifications: February 28<sup>th</sup>, 2023 Final versions: March 15<sup>th</sup>, 2023

### WiP submissions:

Deadline: March 10<sup>th</sup>, 2023 Notifications: March 27<sup>th</sup>, 2023 Final versions: April 7<sup>th</sup>, 2023











