

Call for Papers

Track 8 - Intelligent Sensors, Sensor Networks, and Information Processing

Track co-chairs

Thilo Sauter⁺, Stefano Vitturi[◆]

⁺Danube-University Krems, Austria, thilo.sauter@donau-uni.ac.at

[◆]CNR-IEIIT, Italy stefano.vitturi@ieiit.cnr.it

✦ **FOCUS.** This track focuses on the use of smart sensor technologies and information processing for monitoring and analysis of industrial systems, factory automation systems and related applications. The track focuses on architectural principles, design techniques and implementation models for networked embedded sensor systems along with methods for their evaluation and/or performance analysis. Experience reports and case studies making appropriate scientific and technical contributions in this area are also solicited.

✦ TOPICS

- ✦ Networked Sensing
 - ✦ Novel components, devices and architectures
 - ✦ Devices and protocols for the (Industrial) Internet of Things
 - ✦ Energy harvesting in sensor networks
 - ✦ Network and system architectures
 - ✦ Security analysis and protocols
 - ✦ Communication protocols for sensor networks deployed in industrial scenarios
- ✦ Information Processing
 - ✦ Sensor data processing, data mining
 - ✦ (Distributed) Signal processing and data analytics
 - ✦ Sensor network modelling, simulation, measurements, and analysis
 - ✦ Network health monitoring, QoS management and dependability
 - ✦ Sensor tasking and actuation, wireless control and automation systems
- ✦ Applications
 - ✦ Industrial sensor network applications, deployment and case studies
 - ✦ Smart systems for production, optimization and green energy
 - ✦ Home and building automation, smart factories, smart grid, healthcare

✦ **AIM.** The aim of the conference is to bring together researchers and practitioners from the industry and academia and provide them with a platform to report on recent advances and developments in the newly emerging areas of technology, as well as actual and potential applications to industrial and factory automation.

✦ **CONFERENCE FORMAT.** The conference will comprise multitrack 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; work-in-progress (WIP) sessions; panel discussions on the state-of-the-art and emerging trends, involving leading experts from industry and academia; and public discussion sessions moderated by leading experts in the field of industrial automation systems.

✦ AUTHOR'S SCHEDULE (2019)

✦ Regular and special sessions papers

Submission deadline April 1 April 22
Acceptance notification May 6 May 20
Deadline for final manuscripts June 17 June 27

✦ Work-in-progress/ Industry practice papers

Submission deadline May 13 June 3
Acceptance notification June 10 June 24
Deadline for final manuscripts June 17 July 1

Track Programme Committee

- ✦ Davide Brunelli, University of Trento
- ✦ Ergin Dinc, University of Cambridge
- ✦ Victor Huang, IES Standards; Sage Technology Resources
- ✦ Christos Koulamas, ATHENA Research Center
- ✦ Luciano Lavagno, Politecnico di Torino
- ✦ Kang Lee, National Institute of Standards and Technology, NIST
- ✦ Mihai Lazarescu, Politecnico di Torino, Torino
- ✦ Michele Luvisotto, ABB Corporate Research
- ✦ Marek Miśkiewicz, AGH University of Science and Technology, Kraków
- ✦ Andrzej Pawlowski, UNED, Madrid
- ✦ Roberto Passerone, University of Trento
- ✦ Pericle Perazzo, University of Pisa
- ✦ Theofanis Raptis, Institute of Informatics and Telematics, Pisa
- ✦ Federico Tramarin, University of Padova
- ✦ Michael Short, Teesside University, Middlesbrough, Teesside
- ✦ Andrey Somov Skolkovo Institute of Science and Technology
- ✦ Claudio Zunino, National Research Council of Italy, CNR-IEIIT, Torino