

Call for Papers

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

Track co-chairs

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- ❖ **FOCUS.** The track is focused 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 is also focused 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 modeling, simulation, measurements, and analysis; Network health monitoring, QoS management and dependability; Sensor tasking and actuation, wireless control and automation systems, orchestration for the IoT-to-Edge-to-Cloud compute continuum
- ❖ **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, precision agriculture, smart cities

- ❖ **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.

Track Programme Committee

- ❖ Paulo C. Bartolomeu, University of Aveiro, PT
- ❖ Hans-Peter Bernhard, Silicon Austria Labs (SAL) and Johannes Kepler University Linz (JKU), AT
- ❖ Miguel Bordallo Lopez, University of Oulu, FI
- ❖ Dennis Brandao, USP, BR
- ❖ Peter Danielis, University of Rostock, DE
- ❖ Tullio Facchinetti, University of Pavia, IT
- ❖ Yacine Ghamri-Doudane, La Rochelle University, FI
- ❖ David Hästbacka, Tampere University, FI
- ❖ Elli Kartsakli, Barcelona Supercomputing Center (BSC-CNS), ES
- ❖ Christos Koulamas, Industrial Systems Institute / "Athena" R.C., GR
- ❖ Kristina Kunert, Umeå University, SE
- ❖ Milhai Lazarescu, Politecnico di Torino, IT
- ❖ Oliver Niggemann, Helmut Schmidt University / University of the Federal Armed Forces Hamburg, DE
- ❖ Roberto Passerone, University of Trento, IT
- ❖ Andrzej Pawlowski, University of Brescia, IT
- ❖ Theofanis Raptis, CNR-IIT, IT
- ❖ Sebastian Reiter, FZI Karlsruhe, DE
- ❖ Ivanovitch Silva, Federal University of Rio Grande do Norte - Metropolis Digital Institute, BR
- ❖ Andrey Somov, Skolkovo Institute of Science and Technology, RU
- ❖ Abhilash Thekkilakkattil, Scania CV AB, SE
- ❖ Daesub Yoon, ETRI, KR
- ❖ Yudong Zhang, University of Leicester, UK
- ❖ Tao Zheng, Beijing Jiatong University, CN
- ❖ Claudio Zunino, CNR-IEIIT, IT

AUTHOR'S SCHEDULE (2023)

❖ Regular and special sessions papers

Submission deadline March 31
Acceptance notification May 5
Deadline for final manuscripts June 16

❖ Work-in-progress/ Industry practice papers

Submission deadline May 12
Acceptance notification June 9
Deadline for final manuscripts June 16