INDIN2023

21st IEEE International Conference on Industrial Informatics

17th –20th July 2023 | Lemgo, Germany

Call for Papers
Track 06 – Factory communications, control and automation systems

■ **Focus** – This track covers various aspects of relevance for factory communication and automation systems, in response to the latest industrial and international standardization trends. Besides addressing topics related to industrial communication, including the recently standardized Time Sensitive Networks (TSN), the track focus is on innovative system architectures bridging operational technology and information technology, assisted by model-driven development and domain-specific programming languages. An additional focus of the track is on suitable means of collecting and analyzing large data sets originating from the shop floor, as well as novel design approaches for next-generation control and automation systems.

■ **Topics**
- Automated manufacturing systems
- Distributed planning and control of industrial systems
- Service-oriented architectures in factory automation
- Edge, fog and cloud computing for factory automation systems
- Big data and data mining in factory automation
- Industrial communication systems (wired/wireless)
- Communication in Industry 4.0
- Remote configuration and network management
- Critical and real time solutions for factory automation and communication systems
- Model-driven development for automation systems (UML, SysML, ...)
- Domain-Specific Modeling and Programming Languages (IEC 61131, IEC 61499, ...)
- System Design and Architecture
- Control over Real-Time Ethernet Networks and TSN

■ **Aim & Scope** – IEEE INDIN is a flagship conference of IEEE Industrial Electronics Society providing a forum for presentation and discussion of the state-of-art and future perspectives of industrial information technologies.

■ **Solicited Papers**
- Regular research papers reporting on new developments in technological sciences
- Special Session papers to stimulate in-depth discussions in special areas relevant to the conference theme
- Industry and development papers reporting on actual developments of technology, products, systems and solutions
- Tutorials

Track Chairs

Yang Shi, University of Victoria, Canada

Ivan Cibrario Bertolotti, CNR–IEIIT, Italy

Track Program Committee

Jose Barata, NOVA University of Lisbon, Portugal

Leonardo Buss Becker, Federal University of Santa Catarina, Brazil

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Mingxi Liu, University of Utah, USA

Changxin Liu, KTH Royal Institute of Technology, Sweden

Gabriele Manduchi, Italian National Research Council, Italy

Bingxian Mu, University of New Hampshire, USA

Nicolas Navet, University of Luxembourg, Luxembourg

Habeeb Olufowobi, University of Texas at Arlington, USA

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Martin Schoeberl, Technical University of Denmark, Denmark

Chao Shen, Carleton University, Canada

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Santiago Soler Perez Olaya, Technische Universität Dresden, Germany

Carsten Wittenberg, Hochschule Heilbronn, Germany

Kunwu Zhang, University of Victoria, Canada

Alois Zoitl, Johannes Kepler University Linz, Austria

2023.ieee-indin.org

Important Dates

Submission of papers (regular, special sessions)
~~March, 01, 2023~~ March, 31, 2023

Notification of acceptance
~~April, 15, 2023~~ May, 15, 2023

Submission of final manuscript
June, 05, 2023