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

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

Track Chairs
Yang Shi, University of Victoria, Canada
Ivan Cibrario Bertolotti, CNR-IIEIT, Italy

Track Program Committee
Jose Barata, NOVA University of Lisbon, Portugal
Leonardo Bass Becker, Federal University of Santa Catarina, Brazil
Gedare Bloom, University of Colorado Colorado Springs, USA
Salvatore Cavalieri, University of Catanza, Italy
Manuel Cherninh, CNR-IIEIT, Italy
Jeremy S. Daly, Colorado State University, USA
Peter Danielis, Universität Rostock, Germany
Patrick Döbler, TU-Wien, Austria
Alexander Fay, Helmut-Schmidt-Universität / Universität der Bundeswehr Hamburg, Germany
Paulo Garcia, CNML – Carnegie Mellon KMITL, Thailand
Robert Harrison, University of Warwick, United Kingdom
Senia Houssinisou, University of Colorado Colorado Springs, USA
Markus Jung, Bullfug GmbH, Germany
José Lima, INESC TEC, Portugal
Mingbi Liu, University of Utah, USA
Changpin Liu, KTH Royal Institute of Technology, Sweden
Gabriele Manduchi, Italian National Research Council, Italy
Bingxian Mu, University of New Hampshire, USA
Nicolas Nave, University of Luxembourg, Luxembourg
Habibeb Oluwole, University of Texas at Arlington, USA
Sasi Kumar Puttekkl, Mälardalen University, Sweden
Martin Schober, Technical University of Denmark, Denmark
Chao Shen, Carleton University, Canada
José Sherill, OAR Corporation, USA
Santiago Solar Perez Olay, Technische Universität Dresden, Germany
Cansten Wittmann, Hochschule Heilbronn, Germany
Kimeu Zhang, University of Victoria, Canada
Alois Zöttl, Johannes Kepler University Linz, Austria

2023.ieee-indin.org