INDIN2023

21st IEEE International Conference on Industrial Informatics

17th – 20th July 2023 | Lemgo, Germany

Call for Papers
Track 04 – System and Software Engineering, Runtime intelligence

■ **Focus** – Large and complex Industrial Automation systems have become increasingly dominated by software. We invite novel research in all phases of the system/software development lifecycle with an additional focus on runtime intelligence.

■ **Topics**

- Requirements engineering–elicitation, specification, analysis, management in software–oriented industrial automation systems
- System architectures for industrial automation systems
- Software architectures for industrial automation systems
- Application–level or reference architectures for sub–domains like factory, building, packaging and production systems
- Design–level concerns and strategies for industrial automation systems
- Development of industrial software including tools, patterns and processes
- Model–driven engineering of intelligent automation systems
- Co–design and development of hardware/software aspects of industrial automation systems
- Product lines and feature–oriented development of industrial automation systems
- Context–aware industrial automation systems–design and development
- All paradigms for developing intelligent industrial automation systems, including machine learning/artificial intelligence, model–based approaches, etc.
- Testing of industrial automation systems–test–driven development, testing strategies, integration and system–level testing, early testing methods
- Model–checking and verification techniques for industrial automation systems
- Deployment of industrial automation systems – DevOps, configuration management, dynamic reconfiguration, fault management, diagnostics
- Hybrid clouds and cloud–edge flexibility in industrial automation systems
- Fog technologies in intelligent automation systems
- Runtime monitoring and verification of industrial automation systems

■ **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

David Hästbacka, Tampere University, Finland

Roopak Sinha, Auckland University of Technology., New Zealand

Track Program Committee

Matthew Kuo, Auckland University of Technology, New Zealand

Paulo Leitao, Instituto Politécnico de Bragança, Portugal

David Hästbacka, Tampere University, Finland

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Juri Vain, Tallinn University of Technology, Finland

Henry Joutsijoki, Insta Advance, Finland

Michele Albano, Aalborg University, Denmark

Filipe Moutinho, Nova University of Lisbon, Portugal

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