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
- Jin Woo Ro, University of Bamberg, Germany
- Roopak Sinha, Auckland University of Technology, New Zealand
- Benjamin Tan, University of Calgary, Canada
- Juni Vain, Tallinn University of Technology, Finland
- Henry Joutsijoki, Insta Advance, Finland
- Michele Albanò, Aalborg University, Denmark
- Filipe Moutinho, Nova University of Lisbon, Portugal

**Important Dates**

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<td>Submission of papers (regular, special sessions)</td>
<td>March 01, 2023 – March 31, 2023</td>
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<td>Notification of acceptance</td>
<td>April 15, 2023 – May 15, 2023</td>
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<td>Submission of final manuscript</td>
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