INDIN 2021

19th IEEE International Conference on Industrial Informatics INDIN'21

21-23 July 2021, Palma de Mallorca, Spain

Call for Papers
Track 1 - Industrial Cyber-Physical Systems and Industrial Agents

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❖ **FOCUS**. This track focuses on cutting edge technologies related to the industrial cyber-physical systems and industrial agents. Industrial cyber-physical systems and industrial agents are the key for enabling autonomous manufacturing in Industrial 4.0 and Industrial Internet. In this track, all industrial CPS and agents related researches will be covered from all perspectives of industrial applications including reference architectures, data models, multi-agent systems, industrial computing and edge computing and much more.

❖ **TOPICS**

- ❖ Industry 4.0 Technology and Solutions
- ❖ Industrial Digitalization and Networking
- ❖ ICPS Architectures and Reference Models
- ❖ Industrial Data Models (AutomationML, PackML, B2MML, OPC-UA ML)
- ❖ ICPS Engineering Life Cycle
- ❖ Multi-Agent Systems in Industry
- ❖ Industrial Internet of Things (IIoT), Industrial Internet of Services (IIoS), Service-Oriented Architectures
- ❖ Connectivity and Interoperability in Edge-Cloud infrastructures
- ❖ Artificial Intelligence in ICPS Context
- ❖ Data Science and Big Data in the ICPS Context
- ❖ Digitalization of Things, Methods and Tools, Digital Twins in ICPS context
- ❖ Cyber-Physical Production Systems and Agents in Industry
- ❖ CPS Privacy, Fault Tolerance, and Security. Industrial Cyber-Security and Cyber-Safety for Industrial Cyber-Physical Systems
- ❖ CPS Synthesis and Verification
- ❖ Machine Learning in an ICPS context
- ❖ Human Factors in ICPS
- ❖ Hybrid human-cyber intelligence technologies in smart industry
- ❖ Performance Measures and Benchmarking for ICPS
- ❖ Educating and Learning ICPS in Industrial Informatics context

❖ **AIM.** 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, where industry experts, researchers, and academics share ideas and report on recent developments, deployments, technology trends and research results, as well as initiatives related to industrial informatics and their application.

❖ **CONFERENCE FORMAT**. The conference will include multitrack sessions, for both Regular an Special Session papers, to present significant and novel research results with a prospect for a tangible impact on the research area and potential implementations; Industry Forum sessions, in which invited speakers will present use cases, changes, and challenges faced by industry associated with the technical areas of IES; and Tutorials sessions, in which selected speakers will explain state-of-the-art and ongoing hot research techniques and tools, together with hands-on experiments, aimed at solving problems faced by industrial informatics engineers and researchers.

❖ **AUTHOR'S SCHEDULE (2021)**

❖Regular and Special Session (SS) papers
SS proposals deadline .... January 24
Papers submission deadline .... March 31
Acceptance notification .... June 11
Deadline for final manuscripts .... June 30

❖Tutorials
Tutorial proposals deadline .... April 23

Track Programme Committee

- ❖ Aitor Agirre, Ikerlan, Spain
- ❖ Aintzane Armentia, University of the Basque Country , Spain
- ❖ Oskar Casquero, University of the Basque Country, Spain
- ❖ Elisabet Estevez, University of Jaen, Spain
- ❖ Martin Hochwallner,Linköping University, Sweden
- ❖ Paulo Leitao, University of Bragança, Portugal
- ❖ Arndt Lueder, University of Magdeburg, Germany
- ❖ Zhihan Lv, Qingdao University, China
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- ❖ Zhibo Pang, ABB Corporate Research, Sweden
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- ❖ Peyman TalebiFard, Ofino, USA
- ❖ Prabhat Tripathi, Birla Institute of Technology, Mesra, India
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