27th INTERNATIONAL CONFERENCE
ON EMERGING TECHNOLOGIES
AND FACTORY AUTOMATION

ETFA 2022

STUTTGART, GERMANY
SEPTEMBER 6th-9th 2022

Call for Papers
Track 10 - Artificial Intelligence for Cyber Physical Systems in Automation

Track chairs

Daswin De Silva [§], Stamatis Karnouskos [◆]

[§] La Trobe University, Australia, D.DeSilva@latrobe.edu.au
[◆] SAP, Germany, karnouskos@ieee.org

- **FOCUS**. The track is focused on theoretical formulations, technical developments, practical applications, methods and case studies that leverage Artificial Intelligence, Data Analytics and Emerging Technologies for the automation and optimization of Cyber-Physical Systems in smart factory settings.
- **TOPICS**
  - Distributed Architectures for Adaptive Systems
  - Autonomous Cyber-Physical Systems
  - Self-Adaption and Self-Organization for Smart Factories
  - Smart Cities, Smart Buildings and Smart Energy
  - Deep learning and Self-Optimizing Cyber-Physical Systems
  - Grey-box machine learning
  - Real-time implementation of AI in automation
  - Knowledge representation and ontologies
  - Automatic system configuration
  - Unsupervised learning and latent representations
  - Networked Adaptive Systems
  - Intelligent Interfaces to Smart Distributed Systems, AI Powered
  - Smart Interfaces
  - Industrial Conversational Agents
  - Machine Learning for Production
  - Algorithms for Diagnosis and Repair
  - Self-configuration and self-optimization

Track Program Committee

- **AIM.** The aim of the conference is to bring together researchers and practitioners from the industry and academia and provide them with a platform to report on recent advances and developments in the newly emerging areas of technology, as well as actual and potential applications to industrial and factory automation.
- **CONFERENCE FORMAT**. The conference will comprise multi-track sessions for regular papers, to present significant and novel research results with a prospect for a tangible impact on the research area and potential implementations, as well as work-in-progress (WiP) and industry practice sessions.
- **AUTHOR'S SCHEDULE (2022)**

Regular and special sessions papers

Submission deadline	April 1
Acceptance notification	May 6
Deadline for final manuscripts	June 17

Work-in-progress/Industry practice papers

Submission deadline	May 13
Acceptance notification	June 10
Deadline for final manuscripts	June 17