

Call for Papers

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

Track co-chairs

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❖ **FOCUS.** Focus of this track are methods, technologies and case studies which leverage on cyber-physical systems to provide smart capabilities such as self-configuration, self-optimization and self diagnosis.

❖ 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
- ❖ Networked Adaptive Systems
- ❖ Intelligent Interfaces to Smart Distributed Systems, AI Powered
- ❖ Smart Interfaces
- ❖ Machine Learning for Production
- ❖ Algorithms for Diagnosis and Repair
- ❖ Self-configuration and self-optimization

❖ **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 multitrack 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 (2020)

❖ 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

Track Programme Committee

- ❖ Achini Adikari *La Trobe University*
- ❖ Alessandro Biondi *Scuola Superiore Sant'Anna*
- ❖ Andrea Bonci *Università Politecnica delle Marche*
- ❖ Antoni Grau *Technical University of Catalonia*
- ❖ Chau Yuen *Singapore University of Technology & Design*
- ❖ Chen-Wei Yang *Lulea University of Technology*
- ❖ Christian Schlegel *Ulm University of Applied Sciences*
- ❖ Damien Trentesaux *Polytechnic University Hauts-de-France*
- ❖ Daminda Alahakoon *La Trobe University*
- ❖ Daniele De Martini *University of Oxford*
- ❖ Denis Kleyko *University of Berkeley*
- ❖ Ernesto Damiani *Università degli Studi di Milano*
- ❖ Florian Pethig *Fraunhofer IOSB-INA*
- ❖ Jesus Ureña *University of Alcala*
- ❖ Lin Zhang *Beihang University*
- ❖ Lucia Pallottino *University of Pisa*
- ❖ Luis Ribeiro *Linköping University*
- ❖ Maki K. Habib *The American University in Cairo*
- ❖ Marina Indri *Politecnico di Torino*
- ❖ Mauro Marinoni *Scuola Superiore Sant'Anna*
- ❖ Milos Manic *Virginia Commonwealth University*
- ❖ Mohammad Al Faruque *University of California*
- ❖ Paulo Leitao *Polytechnic Institute of Bragança*
- ❖ Peng Li *Ostwestfalen-Lippe University of Applied Sciences*
- ❖ Rafal Leszczyna *Gdansk University of Technology*
- ❖ Rashmika Nawaratne *La Trobe University*
- ❖ Robert Harrison *University of Warwick*
- ❖ Roopak Sinha *Auckland University of Technology*
- ❖ Seiichiro Katsura *Keio University*
- ❖ Thilo Steckel *Claas*
- ❖ Veera Ragavan *Monash University*