

## 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; work-in-progress (WIP) sessions; panel discussions on the state-of-the-art and emerging trends, involving leading experts from industry and academia; and public discussion sessions moderated by leading experts in the field of industrial automation systems.

#### ‡ AUTHOR'S SCHEDULE (2019)

##### ❖ Regular and special sessions papers

Submission deadline ..... April 1 April 22  
Acceptance notification ..... May 6 May 20  
Deadline for final manuscripts ..... June 17 June 27

##### ❖ Work-in-progress/ Industry practice papers

Submission deadline ..... May 13 June 3  
Acceptance notification ..... June 10 June 24  
Deadline for final manuscripts ..... June 17 July 1

#### 👤 Track Programme Committee

- ❖ Alessandro Biondi, *Scuola Superiore Sant'Anna*
- ❖ Daniele De Martini, *Dept of Engineering Science, University of Oxford*
- ❖ Florian Pethig, *Fraunhofer IOSB-INA*
- ❖ Giorgio Buttazzo, *Scuola Superiore Sant'Anna*
- ❖ Guido Benetti, *University of Pavia*
- ❖ Jaeho Lee, *University of Seoul*
- ❖ Letizia Marchegiani, *Dept of Engineering Science, University of Oxford*
- ❖ Maki K. Habib, *The American University in Cairo*
- ❖ Marco Piastra, *University of Pavia*
- ❖ Mark Mattingly-Scott, *IBM*
- ❖ Mauro Marinoni, *Scuola Superiore Sant'Anna*
- ❖ Milos Manic, *Virginia Commonwealth University*
- ❖ Mohammad Al Faruque, *University of California*
- ❖ Orfefs Voutyras, *ICCS/NTUA*
- ❖ Paolo Fiorini, *Università di Verona*
- ❖ Paulo Jorge Sequeira Goncalves, *Instituto Politecnico de Castelo Branco*
- ❖ Peng Li, *Ostwestfalen-Lippe University of Applied Science*
- ❖ Stamatis Karnouskos, *SAP*
- ❖ Thilo Steckel, *Claas*
- ❖ Veera Ragavan, *Monash University*
- ❖ Zhaodan Kong, *University of California Davis*