

Call for Papers

Track 9 - Complex Automation Systems and Systems Engineering

Track chairs

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❖ **FOCUS.** The track is focused on the system level design of complex technical systems, such as industrial Cyber Physical Systems, towards attaining functional requirements, controlled behavior and predictable performance. It focusses on the multi-disciplinary and multi-model nature of the related engineering tasks.

❖ TOPICS

- ❖ Systems Engineering, Systems-of-Systems Engineering, Systems Architecture
- ❖ Model Driven Engineering
- ❖ Complex Automation Systems
- ❖ Structural and Dynamic Complexity
- ❖ Cyber-Physical Systems & Cyber Security
- ❖ Distributed Adaptive and Predictive Real Time Control Systems
- ❖ Cloud Manufacturing
- ❖ Edge/Fog Computing in Automation
- ❖ Humans in the Loop
- ❖ Modelling & Simulation – Digital Twin
- ❖ Large-Scale System Integration and Verification
- ❖ Decision-making for Complex Systems
- ❖ Scalability and Complexity Management
- ❖ Modularity, Composability and Complexity in Autonomous Systems
- ❖ Engineering Process Management
- ❖ Case Studies and application reports from factory and process automation, automotive applications, transportation systems, district and urban automation and systems, energy systems, eHealth automation systems

❖ **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

Track Program Committee

- ❖ Christos Alexakos, *Industrial Systems Institute, Greece*
- ❖ Udayanto Dwi Atmojo, *Aalto University, Finland*
- ❖ Stefan Biffli, *TU Wien, Austria*
- ❖ Giuseppe Franze, *Università della Calabria, Italy*
- ❖ Elmar Kiesling, *TU Wien, Austria*
- ❖ Athanasios Kalogeras, *Industrial Systems Institute, Greece*
- ❖ Christos Koulamas, *Industrial Systems Institute, Greece*
- ❖ Paulo Leitão, *Polytechnic Institute of Bragança, Portugal*
- ❖ Kristof Meixner, *TU Wien, Austria*
- ❖ Christian Neureiter, *FH Salzburg, Austria*
- ❖ Pierluigi Siano, *University of Salerno, Italy*
- ❖ Thomas Strasser, *AIT Austrian Institute of Technology, Austria*
- ❖ Sven Tomforde, *Christian-Albrechts-Universität Kiel, Germany*
- ❖ Manuel Wimmer, *University of Linz, Austria*
- ❖ Julia Kittel, *HS Emden-Leer, Germany*
- ❖ Christof Binder, *FH Salzburg, Austria*
- ❖ Martin Langosch, *BMW AG, Germany*