

Call for Papers

Track 9 – Complex Automation Systems and Systems Engineering

Track co-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, covering the complete system life cycle emphasizing the impact of all life cycle phases on control system design, implementation, and use. 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
- ❖ Distributed Control Systems
- ❖ Cloud and Edge/Fog Computing in Automation
- ❖ Humans in the Loop
- ❖ Humans in Engineering
- ❖ Digital Twin, Digital Shadow, Asset Administration Shell
- ❖ 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 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 (2023)

❖ Regular and special sessions papers

Submission deadline March 31
Acceptance notification May 5
Deadline for final manuscripts June 16

❖ Work-in-progress/ Industry practice papers

Submission deadline May 12
Acceptance notification June 9
Deadline for final manuscripts June 16

Track Programme Committee

- ❖ Christos Alexakos, Industrial Systems Institute, Greece
- ❖ Stefan Biffel, TU Wien, Austria
- ❖ Christof Binder, FH Salzburg, Austria
- ❖ Christian Dietrich, Universität Magdeburg, Germany
- ❖ Giuseppe Franze, Università della Calabria, Italy
- ❖ Athanasios Kalogeras, Industrial Systems Institute, Greece
- ❖ Elmar Kiesling, University Wien, Austria
- ❖ Julia Kittel, HS Emden-Leer, Germany
- ❖ Christos Koulamas, Industrial Systems Institute, Greece
- ❖ Stefan Huber, FH Salzburg, Austria
- ❖ Simon Hoher, FH Salzburg, Austria
- ❖ David Hoffmann, Universität Magdeburg, Germany
- ❖ Martin Langosch, BMW AG, Germany
- ❖ Carmen Listl, BMW AG, Germany
- ❖ Kristof Meixner, TU Wien, Austria
- ❖ Christian Neureiter, FH Salzburg, Austria
- ❖ Thomas Strasser, AIT, Austria
- ❖ Sven Tomforde, Christian-Albrechts-Universität Kiel, Germany
- ❖ Manuel Wimmer, University of Linz, Austria