

Call for Papers

Track 4 –Automated Manufacturing Systems

Track co-chairs

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- ❖ **FOCUS.** The track is focused on the use of techniques and technologies for modelling, analysis, intelligent control, and enterprise integration of automated manufacturing systems.

❖ TOPICS

- ❖ Industry 4.0 and 5.0 technologies and its applications to automated manufacturing
- ❖ Optimization, flexible management and self-adaptive manufacturing
- ❖ Performance evaluation and reliability of discrete and continuous industrial automation systems
- ❖ Software-defined manufacturing systems and enterprise integration
- ❖ Best practices for Digital Twin in automated manufacturing
- ❖ Data spaces for track and trace of value chains in production
- ❖ Intelligent Cyber-Physical Production Systems
- ❖ Standardization of modelling, software and control in automated manufacturing
- ❖ Condition monitoring, predictive maintenance, and fault diagnosis
- ❖ IT for networked and distributed manufacturing systems
- ❖ Design and application of IT architectures, e.g., service-oriented technologies
- ❖ Synthesis, modelling and analysis of manufacturing systems
- ❖ Test cases, benchmarks, methods and validation and verification tools
- ❖ Methods and tools for safety and security in automated manufacturing
- ❖ Scheduling, resource allocation and optimization
- ❖ Discrete Event Systems in manufacturing
- ❖ Special applications and experiences in industry

- ❖ **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

- ❖ Kamel Barkaoui, Cedric-Cnam, France
- ❖ Paulo C.Bartolomeu, University of Aveiro, Portugal
- ❖ Jesús Bermúdez, University of Zaragoza, Spain
- ❖ Graziana Cavone, Politecnico di Bari, Italy
- ❖ Xiaolin Chang, Beijing Jiaotong University
- ❖ Robert Harrison, University of Warwick, UK
- ❖ Tobias Kleinert, RWTH Aachen, Germany
- ❖ Robert Lehmann, TU Dresden, Germany
- ❖ Gaiyun Liu, Xidian University, China
- ❖ Vicente Lucena, Federal University of Amazonas, Brazil
- ❖ Ziyue Ma, Xidian University, China
- ❖ Stefano Marrone, University of Campania, Italy
- ❖ Imanol Mugarza, Ikerlan Technology Research Centre, Spain
- ❖ Octavian Pastravanu, TU Iasi, Romania
- ❖ Carlos Pereira, Univ. Rio Grande do Sul, Brasil
- ❖ Carla Seatzu, University of Cagliari, Italy
- ❖ Hans Wernher van de Venn, ZHAW, Switzerland
- ❖ Carlos Renato Vázquez, Tecnológico de Monterrey, Mexico
- ❖ Marco A. Wehrmeister, Federal University of Technology - Paraná (UTFPR) , Brazil
- ❖ Dietmar Winkler, TU Wien, CDL-SQI, Austria
- ❖ Martin Wollschlaeger, TU Dresden, Germany
- ❖ Armin Zimmermann, TU Ilmenau, Germany