Call for Papers

Track 4 - Automated Manufacturing Systems

Track chairs
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❖ Kamel Barkaoui, Cedric - Le Cnam, Paris, France
❖ Robert Harrison, University of Warwick, UK
❖ Robert Lehmanna, TU Dresden, Germany
❖ Vicente Lucena, Federal University of Amazonas, Brazil
❖ Ziyue Ma, Xi’an University, China
❖ Octavian Pastravanu, Technical University of Iasi, Romania
❖ Ricardo Rodrigues, Universidad de Zaragoza, Spain
❖ Carla Seatzu, University of Cagliari, Italy
❖ Adriano Valenzano, Politecnico di Torino, Italy
❖ Carlos Vázquez Topete, Tecnológico de Monterrey, Mexico
❖ Hans Wernher van de Venn, ZHAW Zürcher Hochschule für Angewandte Wissenschaften, Zürich, Switzerland
❖ Marco A. Wehrmeister, Federal University of Technology - Paraná (UTFPR), Brazil
❖ Dietmar Winkler, TU Wien, CDL-SQI, Vienna, Austria
❖ FOCUS. The track is focused on the use of techniques and technologies for modeling, analysis, intelligent control, and enterprise integration of automated manufacturing systems.

TOPICS

- Automated Manufacturing Systems and Enterprise Integration
- Industry 4.0 Technologies and Applications
- Best practices for Digital Twin modeling
- Recent Developments in Standardization, Intelligent Cyber-Physical Production Systems
- Optimization and flexible Management
- Condition Monitoring and Predictive Maintenance
- Fault Diagnosis, State-Estimation, and Identification in Formal Models
- Networked Control of Manufacturing Systems
- Planning and Distributed Control of Industrial Systems
- Synthesis and Analysis Techniques
- Performance Evaluation and Reliability
- Formal Modeling and Analysis of Manufacturing Systems
- Formal Methods and Verification Tools
- Discrete and Continuous Industrial Automation Systems
- Scheduling, Resource Allocation and Optimization
- Discrete Event Systems in Manufacturing Systems
- Application of Service-Oriented Technologies
- Test Cases, Benchmarks and Tools
- Applications and Experiences in Practice

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