

Call for Papers Track 04 – Automated Manufacturing Systems

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FOCUS

The track focuses on methods and technologies for modeling, analysis, intelligent control, and enterprise integration of automated manufacturing systems. The track covers topics ranging from cutting-edge research, such as autonomous manufacturing and intelligent cyber-physical production systems, to applications for automated manufacturing, e.g. with Industry 4.0 and 5.0 technologies, as well as related applications and best practice experience reports from industry.

TOPICS

- Asset Administration shell for digital twin
- Biointelligent Manufacturing Automation
- LLM for automation in manufacturing
- Skill based Automation
- Circular Economy Concepts through Autonomous Production
- 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
- 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

AIM

The ETFA 2024 conference brings together professionals from industry and academia to share cutting-edge concepts, recent developments, research results, and practical achievements in industrial and factory automation. The key goal is to foster the enhancement and application of scientific techniques, models, and tools that support the efficient design and operation of industrial and factory automation systems.

SOLICITED PAPERS

- Original Research (Regular)
 Surveys
 Industry practice
 Work-in-progress
- The working language of the conference is English, For submission rules, please refer to the Author's Instruction on the conference website.

PAPER ACCEPTANCE

Accepted, registered, and presented papers will be copyrighted by IEEE and published in the conference proceedings. The proceedings will be available in the IEEE Xplore® Digital Library. The final manuscript must be accompanied by a registration form and a registration fee payment proof and it is mandatory that at least one author attends and presents the paper at the conference. Failure to adhere to these guidelines may result in paper exclusion from post-conference distribution via IEEEXplore by the ETFA 2024 Organizing Committee. All conference attendees must pay the conference registration fee and cover their own personal expenses for travel and accommodations.

AUTHOR'S SCHEDULE 2024

Regular and special sessions papers

Submission deadlineApril 28thAcceptance notificationMay 31stDeadline for final manuscriptsJuly 1st







Work-in-progress/ Industry practice papers Submission deadline

Submission deadline	May 26 th
Acceptance notification	June 17 th
Deadline for final manuscripts	July 1 st





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