ETFA 2026 Västerås Sweden 8-11 September

31st IEEE International Conference on Emerging Technologies and Factory Automation

Call for Papers - Track 4
Automated Manufacturing Systems

Track chairs
Prof. Andrey Morozov * - University of Stuttgart, Germany
Prof. Tamas Ruppert § - University of Pannonia, Hungary

* andrey.morozov@ias.uni-stuttgart.de
§ ruppert.tamas@mk.uni-pannon.hu

❖ **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 (AMS) and Enterprise Integration
- ❖ Digital Twins for AMS
- ❖ Asset Administration Shells for AMS
- ❖ Industry 4.0 and 5.0 Technologies and Applications in AMS
- ❖ Role of Human Operators in AMS
- ❖ AI-Enabled Methods for AMS
- ❖ Learning-Based Methods for Optimization and Scheduling
- ❖ Condition Monitoring and Predictive Maintenance in AMS
- ❖ Fault Diagnosis, State Estimation, and Identification in AMS Models
- ❖ Networked and Distributed Control of Manufacturing Systems
- ❖ Planning, Scheduling, Resource Allocation, and Optimization
- ❖ Synthesis and Analysis Techniques for AMS
- ❖ Performance, Reliability and Risk Evaluation of AMS
- ❖ Formal Methods and Verification Tools for Manufacturing Systems
- ❖ Discrete Event, Discrete, and Continuous Industrial AMS
- ❖ Optimization and Flexible Management of Manufacturing Systems
- ❖ Service-Oriented Technologies for Manufacturing Systems
- ❖ Test Cases, Benchmarks, and Tools
- ❖ Applications and Experiences in Practice

Track Program Committee

- ❖ Kamel Barkaoui
- ❖ Paulo C. Bartolomeu
- ❖ Jesús Bermúdez
- ❖ Xiaolin Chang
- ❖ Robert Harrison
- ❖ Gaiyun Liu
- ❖ Vicente Lucena
- ❖ Ziyue Ma
- ❖ Stefano Marrone
- ❖ Octavian Pastravanu
- ❖ Carlos Pereira
- ❖ Carla Seatzu
- ❖ Carlos Vázquez Topete
- ❖ Dietmar Winkler
- ❖ Martin Wollschläger
- ❖ Armin Zimmermann
- ❖ Vladimir Kuts
- ❖ Carsten Ellwein
- ❖ Marco A. Wehrmeister
- ❖ Tagir Fabarisov
- ❖ Thomas Mutzke

❖ **AIM**. The aim of the conference is to bring together the international community to present the latest research results, share new ideas and engineering breakthroughs, and discuss state-of-the-art challenges and future directions in technology and innovation in the broad domain of Automation with a focus on 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 (2026)**

❖Regular and special sessions papers

Submission deadline .... April 19
Acceptance notification .... May 25
Deadline for final manuscripts .... July 4

❖Work-in-progress/Industry practice papers

Submission deadline .... May 31
Acceptance notification .... June 19
Deadline for final manuscripts .... July 4

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