

# ETFA 2025

## Porto

Portugal  
9-12 September

30<sup>th</sup> IEEE International Conference on Emerging Technologies and Factory Automation

### Call for Papers - Track 4 Automated Manufacturing Systems

#### Track chairs

**Prof. Ricardo J. Rodríguez**<sup>§</sup> - University of Zaragoza, Spain

**Prof. Andrey Morozov**<sup>\*</sup> - University of Stuttgart, Germany

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- ◆ **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 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 (2025)

##### ◆ Regular and special sessions papers

Submission deadline ..... April 18  
Acceptance notification ..... May 23  
Deadline for final manuscripts ..... July 4

##### ◆ Work-in-progress/Industry practice papers

Submission deadline ..... May 30  
Acceptance notification ..... June 20  
Deadline for final manuscripts ..... July 4

#### 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