ETFA 2026 Västerås Sweden 8-11 September

31st IEEE International Conference on Emerging Technologies and Factory Automation

Call for Papers - Track 07
Intelligent Robots and Systems

Track chairs

Cristian Mahulea[1] - Universidad de Zaragoza, Spain
Branko Miloradović[2] - Mälardalen University, Sweden
[1]cmahulea@unizar.es, [2]branko.miloradovic@mdu.se

FOCUS. This track brings together researchers and practitioners to present advances and practical experiences in intelligent robotic and automation systems for real-world applications, including robot systems and prototypes, robot programming, AI-based control, perception, and sensor data processing, intelligent embedded systems, and benchmarking and usability studies, with an emphasis on validated, robust, and industrially relevant solutions.

TOPICS

- SLAM, navigation, motion planning, and collision avoidance
- Perception, sensor fusion, vision systems, and environment understanding
- Robot learning, deep learning, and data-driven autonomy
- Multi-agent, cooperative, collaborative, and networked robotics
- Edge/cloud robotics and integrated intelligent systems
- Robot programming, control, and supervision
- Robotic arms, mobile manipulators, and heterogeneous platforms
- Simulation, digital twins, and virtual testing
- Human–robot interaction, usability, and safety
- Resilient autonomy and failure recovery
- Advanced applications of autonomous robots
- Sustainable robotics, circular economy, and lifecycle-aware applications
- Training and education in robotics
- Multi-Robot Planning and Scheduling
- Path and Task Planning

Track Program Committee

- Mirgita Frasheri, Aarhus University, Denmark
- Milica Petrović, University of Belgrade, Faculty of Mechanical Engineering, Serbia
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- Sofia Hustiu, “Gheorghe Asachi” Technical University of Iași, Romania
- Pedro Neto, Universidade de Coimbra, Portugal
- Alberto Ortiz, Institute of Artificial Intelligence, University of the Balearic Islands, Spain
- Gianluca Palli, University of Bologna, Italy
- Nicola Pedrocchi, CNR-STIIMA, Italy
- David Portugal, Institute of Systems and Robotics, University of Coimbra, Portugal
- Christian Schlegel, University of Applied Sciences Ulm, Germany
- Marina Indri, Politecnico di Torino, Italy
- Andrea Bonci, Marche Polytechnic University, Italy
- Raul Suarez, Technical University of Catalonia (UPC), Spain
- Rabah Ammour, Aix-Marseille University, France
- Niklas Persson, Mälardalen University, Sweden
- Alessio Caporali, University of Bologna, Italy
- Roberto Meattini, University of Bologna, Italy

- **AIM**. The aim of the conference is to bring together the international research and industrial communities to present state-of-the-art research results, share novel ideas and engineering breakthroughs, and discuss current challenges and future directions in technology and innovation within the broad domain of automation, with a particular 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