

## Call for Papers

### Track 7 – Intelligent Robots and Systems

#### Track co-chairs

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- ❖ **FOCUS.** The aim of the track is to gather researchers and practitioners to report on recent achievements and on requirements in the development of real-world intelligent robots and systems, including robot prototypes, robot programming, robotics and artificial intelligence applications, sensor data processing in robotics and intelligent embedded systems, as well as on benchmarking and usability studies.

#### ❖ TOPICS

- ❖ Environment Description, Map Building and Localization, SLAM
- ❖ Navigation, Collision Avoidance and Path Planning
- ❖ Perception for Robotics
- ❖ Advanced Sensors and Vision Systems for Robotics
- ❖ Active Perception and Sensing
- ❖ Multi-Agent Systems, Distributed and Decentralized Multi-Robot Architectures
- ❖ Cooperative and Collaborative Robotics
- ❖ Assistive Robotics
- ❖ Intelligent Embedded Systems and Integrated Intelligence
- ❖ Cognitive Robotics
- ❖ Robot Learning and Deep Learning in Robotics
- ❖ Robot Programming and Control Architecture Design
- ❖ Arms and Mobile Manipulators
- ❖ Simulation and Models for Robotics
- ❖ Training and Education in Robotics
- ❖ Human-Robot Interaction
- ❖ Condition monitoring and diagnosis in Robotics
- ❖ Autonomous Robots and Advanced Applications
- ❖ Bio-inspired Robotic Systems
- ❖ Sustainable Robotics and Applications

- ❖ **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 multitrack 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; work-in-progress (WIP) sessions; panel discussions on the state-of-the-art and emerging trends, involving leading experts from industry and academia; and public discussion sessions moderated by leading experts in the field of industrial automation systems.

#### AUTHOR'S SCHEDULE (2023)

##### ❖ Regular and special sessions papers

Submission deadline ..... March 31  
Acceptance notification ..... May 5  
Deadline for final manuscripts ..... June 16

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

Submission deadline ..... May 12  
Acceptance notification ..... June 9  
Deadline for final manuscripts ..... June 16

#### Track Programme Committee

- ❖ Carlos Aldana, University of Guadalajara, Mexico
- ❖ Hector Becerra, CIMAT, Mexico
- ❖ Yolanda Bolea, Technical University of Catalonia, Spain
- ❖ Davide Brugali, University of Bergamo, Italy
- ❖ Itziar Cabanes, University of the Basque Country, Spain
- ❖ José Ángel Castellanos, University of Zaragoza, Spain
- ❖ Emma Delgado, Universidade de Vigo, Spain
- ❖ Marco Faroni, University of Michigan, USA
- ❖ Guillermo Gallego, TU Berlin, Germany
- ❖ Antoni Grau, Technical University of Catalonia, Spain
- ❖ Robert Harrison, University of Warwick, UK
- ❖ Nico Hochgeschwender, Hochschule Bonn-Rhein-Sieg, Germany
- ❖ Gianluca Ippoliti, Univ. Politecnica delle Marche, Italy
- ❖ Alessandro Mengarelli, Univ. Politecnica delle Marche, Italy
- ❖ Pedro Neto, University of Coimbra, Portugal
- ❖ Emmanuel Nuño, University of Guadalajara, Mexico
- ❖ Alberto Ortiz, University of Balearic Islands, Spain
- ❖ Gianluca Palli, University of Bologna, Italy
- ❖ Nicola Pedrocchi, CNR, Italy
- ❖ David Portugal, University of Coimbra, Portugal
- ❖ Ricardo Prado, Universidad Privada Antenor Orrego, Perú
- ❖ Oscar Reinoso, Universidad Miguel Hernández de Elche, Spain
- ❖ Jan Rosell, Universitat Politècnica de Catalunya, Spain
- ❖ Christian Schlegel, Hochschule Ulm, Germany
- ❖ Tomoyuki Shimono, Yokohama National University, Japan
- ❖ Andrea Tigrini, Univ. Politecnica delle Marche, Italy
- ❖ Federica Verdini, Univ. Politecnica delle Marche, Italy
- ❖ Holger Voos, University of Luxembourg, Luxembourg