Call for Papers
Track 7 - Intelligent Robots and Systems

Track chairs
Raul Suarez §, Andrea Bonci ◆

§ Universitat Politecnica de Catalunya, Spain, raul.suarez@upc.edu
◆ Università Politecnica delle Marche, Italy, a.bonci@univpm.it

❖ **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 incl. Collision Avoidance and Path Planning
- ❖ Perception for Robotics
- ❖ Advanced Sensors and Vision Systems for Robotics
- ❖ Active SLAM
- ❖ Multi-Agent Systems and Distributed Robotic Architectures
- ❖ Cooperative and Collaborative Robotics
- ❖ Network Robotics
- ❖ Intelligent Robotic Assistant
- ❖ 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
- ❖ Supervision, Planning and Failure Recovery
- ❖ Advanced Applications of Autonomous Robots
- ❖ 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 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 (2022)**

❖Regular and special sessions papers

Submission deadline	April 1
Acceptance notification	May 6
Deadline for final manuscripts	June 17

❖Work-in-progress/Industry practice papers

Submission deadline	May 13
Acceptance notification	June 10
Deadline for final manuscripts	June 17

Track Program Committee

- ❖ Carlos Aldana, *University of Guadalajara, 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, *CNR STIIMA, Italy*
- ❖ 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*
- ❖ 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*
- ❖ Corrado Possieri, *IASI-CNR, Italy*
- ❖ Ricardo Prado, *Universidad Privada Antenor Orrego, Perù*
- ❖ Oscar Reinoso, *Universidad Miguel Hernández de Elche, Spain*
- ❖ Maximo Roa, *German Aerospace Center, Germany*
- ❖ Jan Rosell, *Universitat Politècnica de Catalunya, Spain*
- ❖ Michael Ruderman, *University of Agder, Norway*
- ❖ Christian Schlegel, *Hochschule Ulm, Germany*
- ❖ Tomoyuki Shimono, *Yokohama National University, Japan*
- ❖ Federica Verdini, *Univ. Politecnica delle Marche, Italy*
- ❖ Holger Voos, *University of Luxembourg, Luxembourg*
- ❖ Gang Zheng, *INRIA Lille, France*