

Call for Papers Track 7 - Intelligent Robots & Systems

Track co-chairs

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+ **FOCUS.** The aim of this 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, comprising robot prototypes, robot programming, robotic & 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 Robotic
- ❖ 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 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 (2019)

❖ Regular and special sessions papers

Submission deadline **March 2** 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 Programme Committee

- ❖ Antoni Grau, *Univ. Politècnica de Catalunya*
- ❖ Arturo de la Escalera, *Univ. Carlos III*
- ❖ Artzai Picon, *UPV-EHU*
- ❖ Basilio Sierra, *UPV-EHU*
- ❖ César Cadena, *ETH Zurich*
- ❖ Christian Schlegel, *Univ. Applied Sciences Ulm*
- ❖ Emilio García-Fidalgo, *Univ. Illes Balears*
- ❖ Eric Rohmer, *State Univ. of Campinas*
- ❖ Francisco Bonnín-Pascual, *Univ. Illes Balears*
- ❖ Franz Wotawa, *Tech. Univ. Graz*
- ❖ Gianluca Palli, *Univ. Bologna*
- ❖ Henry Carrillo, *Univ. Sergio Arboleda*
- ❖ Itziar Cabanes, *UPV-EHU*
- ❖ Javier Antich, *Univ. Illes Balears*
- ❖ Jochen Steil, *TU Braunschweig*
- ❖ Jose Guerrero, *Univ. Illes Balears*
- ❖ José Luis Blanco, *Univ. Almeria*
- ❖ Kasra Khosoussi, *MIT*
- ❖ Marco Bibuli, *CNR INM*
- ❖ Marina Indri, *Politecnico di Torino*
- ❖ Nico Hochgeschwender, *Univ. Luxembourg*
- ❖ Pedro José Sanz, *Univ. Jaume I*
- ❖ Raúl Suarez, *Univ. Politècnica de Catalunya*
- ❖ Rosario Aragües, *Univ. Zaragoza*
- ❖ Santiago Garrido, *Univ. Carlos III*
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- ❖ Stephan Schmidt, *OVGU Magdeburg*
- ❖ Teresa Vidal-Calleja, *Univ. of Technology Sydney*
- ❖ Yue Kang, *Chalmers Univ. of Techn.*