



The European Conference
on Mobile Robots
Prague, Czech Republic 2019



ECMR

SEPTEMBER 4-6, 2019

PRAGUE CZECH REPUBLIC

EUROPEAN CONFERENCE
ON MOBILE ROBOTS 2019

<https://www.ecmr2019.eu/>



ECMR

CALL FOR PAPERS

ECMR is an internationally open biennial European forum, allowing researchers to learn about and discuss the latest accomplishments and innovations in mobile robotics and mobile human-robot systems. ECMR 2019 is the 9th edition of the conference, and will be held in Prague, Czech Republic, hosted by Czech Technical University in Prague and its' Czech Institute of Informatics, Robotics and Cybernetics.

SCOPE

ECMR welcomes articles describing fundamental developments in the field of mobile robotics, with special emphasis on autonomous systems. An important goal of this conference is to extend the state of the art in the context of autonomous systems featuring interdisciplinary approaches covering computer science, control systems, electrical engineering, mathematics, mechanical engineering, and other fields. The conference topics may incorporate mobile robots, intelligent machines and systems for critical use, industrial production, in particular within Industry 4.0 activities and other applications in:

- Symbolic and sensory-based mobile robot design,
- Robot control and learning in the context of autonomous systems featuring interdisciplinary approaches covering computer science, control systems, electrical engineering, mathematics, mechanical engineering, and other fields.

Mobile robots and intelligent machines and systems for critical areas and applications as:

- Service and personal assistants; space, underwater, and remote exploration; entertainment; safety, search, and rescue;
- Agriculture applications and intelligent vehicles.
- Special emphasis is placed on intelligent machines and systems and perception for unstructured environments, where a significant portion of the environment is unknown and cannot be directly sensed or controlled.

Articles on the theoretical, computational and experimental aspects of autonomous systems and their components are strongly encouraged in several aspects of research on mobile robots and machine intelligence, including, but not limited to:

- Robot perception
- Robot mapping, localization, navigation, SLAM
- Planning for robotics
- Learning for robotic systems
- Field robotics
- Distributed robotics systems
- Human-robot interaction and human-centered systems and
- Micro/nano robotics.

CONFERENCE FORMAT

ECMR is shaped as a single track event to favor discussion and interactions, accompanied with poster sessions and keynote speeches.

PAPER SUBMISSION AND REVIEW

Authors are invited to submit original contributions in English not exceeding 6 pages of the two column conference format. However, for final submission, 2 additional pages will be allowed, but at an extra charge. To submit your paper, you can do so using the EasyChair platform.

Papers presented at the conference will be published in IEEE Explore, and selected authors will be invited to submit expanded and revised versions for a special issue in the journal *Robotic and Autonomous Systems*.

IMPORTANT DATES

APRIL 17, 2019

Paper submission deadline

JUNE 15, 2019

Notification of acceptance

JULY 8, 2019

Final submission and early registration

SEPTEMBER 4-6, 2019

Conference

ORGANIZED BY

**Czech Technical University in Prague,
Czech Institute of Informatics, Robotics and Cybernetics**

CONFERENCE SECRETARIAT

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