

Special Issue

Mobile Robot Intelligent Systems: Perception, Planning, and Interaction in Real-World Applications

Message from the Guest Editors

This Special Issue aims to collect and disseminate original research and recent advances in the design, development, and application of intelligent systems for mobile robots operating in real-world settings. The focus is on perception and sensor integration, motion and task planning, adaptive control, machine learning, and human–robot interaction. Specific emphasis will be placed on robust perception, efficient and safe planning and navigation, user–centered interaction (including with assistive mobile platforms), and the integration of virtual and augmented reality. The goal is to highlight innovative approaches that enable mobile robots to perceive, plan, and interact effectively in complex and dynamic environments. Topics of interest for this Special Issue include, but are not limited to:

- Sensor Integration and Perception
- Motion and Task Planning
- Human–Robot Interaction (HRI)
- AI and Machine Learning in Robotics
- Mixed, Virtual, and Augmented Reality for Robotics
- Applications: Mobile robotics in healthcare, logistics, industrial automation, and environmental mapping and 3D reconstruction.

Guest Editors

Dr. Alessandro Luchetti

MIRo (Measurement, Instrumentation and Robotics) Laboratory,
Department of Industrial Engineering (DII), University of Trento, 38123 Trento, Italy

Prof. Dr. Mariolino De Cecco

Department of Industrial Engineering, MIRo Laboratory, University of Trento, Via Sommarive 9, 38123 Trento, Italy

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Applied Sciences
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
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Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal *Applied Sciences* has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

Editor-in-Chief

Prof. Dr. Giulio Nicola Cerullo
Dipartimento di Fisica, Politecnico di Milano, Piazza L. da Vinci 32,
20133 Milano, Italy

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