

Special Issue

Applications of Mobile Robot Navigation and Human-Computer Interaction

Message from the Guest Editor

Mobile robot navigation and human-computer interaction (HCI) are two intertwined fields that have revolutionized various industries and everyday life. The application of mobile robot navigation involves the autonomous movement of robots in both structured and unstructured environments, enabling them to perform tasks and interact with their surroundings. The applications of mobile robot navigation and HCI are diverse and impactful. HCI techniques enable natural and intuitive communication between humans and robots, allowing patients to interact with the robots through speech, gestures, or touch interfaces. Overall, the applications of mobile robot navigation and HCI are diverse and rapidly expanding, enabling automation, improving human-robot interaction, and enhancing various industries and aspects of daily life. **Keywords**

- mobile robot navigation
- human-computer interaction
- autonomous transportation
- industrial automation
- search and rescue
- computer vision
- deep learning
- delivery robots
- mapping
- sensors

Guest Editor

Dr. Mónica Ballesta Galdeano

Systems Engineering and Automation Department, Universidad Miguel Hernández de Elche (Alicante), 03202 Elche, Spain

Deadline for manuscript submissions

closed (30 June 2024)



Applied Sciences

an Open Access Journal
by MDPI

Impact Factor 2.5
CiteScore 5.5



mdpi.com/si/176960

Applied Sciences
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
appls@mdpi.com

[mdpi.com/journal/
appls](https://mdpi.com/journal/appls)





Applied Sciences

an Open Access Journal
by MDPI

Impact Factor 2.5
CiteScore 5.5



[mdpi.com/journal/
applsci](https://mdpi.com/journal/applsci)



About the Journal

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

Author Benefits

Open Access:

free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility:

indexed within Scopus, SCIE (Web of Science), Ei Compendex, Inspec, CAPlus / SciFinder, and other databases.

Journal Rank:

JCR - Q2 (Engineering, Multidisciplinary) / CiteScore - Q1 (General Engineering)