

Special Issue

Sensor-Based Navigation and Control with Applications

Message from the Guest Editor

This Special Issue focuses on the navigation and control of autonomous robots moving in an unknown environment with unexpected obstacles. Mobile robots that can operate in a wide variety of scenarios with complex conditions are required, where the mobility is the key point to increase the degree of autonomy. This leads to the development of specific navigation systems that accommodate the requirements of each application. This Special Issue solicits high-quality contributions with consolidated and evaluated research related to sensor-based navigation and control systems. We invite the scientific community to provide theoretical and applied results in this promising investigation area. Topics of interest include but are not limited to the following:

- Mobile robots
- Navigation control
- Obstacle avoidance
- Autonomous vehicles
- Robotized vehicles
- Global navigation
- Remote control
- Fault diagnosis
- Robot sensing systems

Welcome to contribute.

Guest Editor

Prof. Dr. Josep M. Rossell
Department of Mathematics, Polytechnic University of Catalonia,
Manresa, Spain

Deadline for manuscript submissions

closed (31 March 2021)



Electronics

an Open Access Journal
by MDPI

Impact Factor 2.6
CiteScore 6.1



[mdpi.com/si/31867](https://www.mdpi.com/si/31867)

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

[mdpi.com/journal/
electronics](https://www.mdpi.com/journal/electronics)





Electronics

an Open Access Journal
by MDPI

Impact Factor 2.6
CiteScore 6.1



[mdpi.com/journal/
electronics](http://mdpi.com/journal/electronics)

About the Journal

Message from the Editor-in-Chief

Electronics is a multidisciplinary journal designed to appeal to a diverse audience of research scientists, practitioners, and developers in academia and industry. The journal is devoted to fast publication of latest technological breakthroughs, cutting-edge developments, and timely reviews of current and emerging technologies related to the broad field of electronics. Experimental and theoretical results are published as regular peer-reviewed articles or as articles within Special Issues guestedited by leading experts in selected topics of interest.

Editor-in-Chief

Prof. Dr. Flavio Canavero

Department of Electronics and Telecommunications, Politecnico di Torino, 10129 Torino, Italy

Author Benefits

High Visibility:

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

Journal Rank:

JCR - Q2 (Engineering, Electrical and Electronic) /
CiteScore - Q1 (Electrical and Electronic Engineering)

Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 16.4 days after submission; acceptance to publication is undertaken in 2.6 days (median values for papers published in this journal in the second half of 2025).

