

Special Issue

Advances in Mobile Robots: Navigation, Motion Planning and Control

Message from the Guest Editor

The aim of this Special Issue is to bring together new advances in the navigation and control of mobile robotics. As these aspects have received separate attention in the past, the journal *Electronics* offers the opportunity to show the synergy between them. In this Special Issue, original research articles and reviews are welcome. Research areas may include (but are not limited to) the following:

- Navigation: both autonomous and supervised navigation with fleet management, team coordination (e.g., robot soccer playing, Swarm intelligence, etc.) and remote navigation management (drones are also a kind of mobile robot).
- Path planning: a priori or in dynamic online environment using on-board sensors, e.g., to direct to the robot on a specific path, avoiding obstacles, coping with irregular terrain, climbing and descending stairs.
- Human-robot co-existence environments, especially in health care.
- Control: control dynamics, balance, gait, especially human-like walking merging unstable (i.e., inverted pendulum) and stable (i.e., zero moment point) phases.

Guest Editor

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Deadline for manuscript submissions

closed (15 January 2025)



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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.

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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).