

Topical Collection

Advance Technologies of Navigation for Intelligent Vehicles

Message from the Collection Editors

The primary purpose of this Special Issue is to explore and display the latest achievements of theory and practice related to the advanced technologies of navigation for intelligent vehicles. The areas of interest include but are not limited to:

- Overview of intelligent vehicles;
- Signal processing methods and sensor modules for intelligent vehicles;
- Autonomous navigation in GPS-denied environments;
- Multi-sensor target localization and tracking;
- Autonomous decision making for game and cooperation;
- Cooperative path planning and re-planning for homogeneous/nonhomogeneous vehicles;
- Synchronization for large-scale networks of intelligent vehicles;
- Learning-based and bio-inspired control for complex tasks;
- Distributed optimization and parallel decision making;
- Fault tolerance and robustness in disturbed and uncertain environments;
- Artificial intelligence in swarm cooperative control;
- Deep learning for resource-constrained embedded vision sensor applications;
- Event-driven control strategies for silent and camouflaged intelligent vehicles.

Collection Editors

Dr. Jinwen Hu
Prof. Wei Meng
Dr. Shenghai Yuan



Electronics

an Open Access Journal
by MDPI

Impact Factor 2.6
CiteScore 6.1



mdpi.com/si/92364

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

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





Electronics

an Open Access Journal
by MDPI

Impact Factor 2.6
CiteScore 6.1



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