

Special Issue

Control and Navigation of Robotics and Unmanned Aerial Vehicles

Message from the Guest Editor

This Special Issue highlights cutting-edge developments, novel methodologies, and practical implementations in the control and navigation of robotics and UAVs. We welcome high-quality contributions that propose innovative solutions to address challenges such as real-time decision-making, path planning, obstacle avoidance, sensor integration, and collaborative autonomous systems. Topics of interest include, but are not limited to, the following:

- Advanced control algorithms for robotic manipulators and UAVs;
- AI and machine learning techniques for navigation and control;
- Path planning and optimization in dynamic environments;
- Sensor fusion and perception systems for enhanced autonomy;
- Collaborative navigation in multi-robot and swarm systems;
- Applications for autonomous vehicles, drones, and industrial robots;
- Robustness, safety, and resilience in autonomous systems;
- Simulation frameworks for control and navigation testing;
- Virtual reality environments for robotics and UAV development;
- Emerging trends in hybrid and bio-inspired control systems.

We look forward to receiving your contributions.

Guest Editor

Dr. Zhou Zhang

Farmingdale State College, State University of New York, 2350 NY-110, Farmingdale, NY 11735, USA

Deadline for manuscript submissions

closed (31 July 2025)



Electronics

an Open Access Journal
by MDPI

Impact Factor 2.6
CiteScore 6.1



mdpi.com/si/225881

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 guest-edited 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), CAPus /
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 16.8 days after submission; acceptance to publication is undertaken in 2.4 days (median values for papers published in this journal in the first half of 2025).