

Special Issue

Advanced Control Technologies for Next-Generation Autonomous Vehicles

Message from the Guest Editors

This Special Issue on "Advanced Control Technologies for Next-Generation Autonomous Vehicles" aims to address the emerging challenges and innovations in the field of autonomous vehicle control systems. As autonomous vehicles continue to evolve, there is a critical need to develop advanced control technologies that ensure safety, reliability, and efficiency in various environments, including urban, suburban, and off-road settings. The current Special Issue includes topics on, but not limited to, the following areas:

- Autonomous Vehicle Control;
- Autonomous Driving;
- Machine Learning for Autonomous Driving;
- Reinforcement Learning;
- Robust Control;
- Cooperative Vehicle Systems;
- Sensor Fusion;
- Human–Machine Collaboration;
- Intelligent Transportation Systems;
- Ethical AI in Autonomous Systems;
- Communication-Based Control;
- End-to-End Control Systems;
- Foundation Model (FM)-based Technologies.

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Deadline for manuscript submissions

15 December 2025



Electronics

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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 guest-edited by leading experts in selected topics of interest.

Editor-in-Chief

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