# **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.

## Guest Editors

Dr. Haotian Shi

- Dr. Chenxi Liu
- Dr. Chengyuan Ma
- Dr. Heye Huang
- Dr. Keshu Wu

## Deadline for manuscript submissions

15 December 2025



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

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## 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

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