

Special Issue

Advanced Control Strategies for Enhanced Performance and Efficiency in Electric Autonomous Vehicles

Message from the Guest Editor

Topics of interest for this Special Issue include, but are not limited to, the following:

- Optimized control methods for electric vehicles considering real-time control performance.
- Vehicle stability control under extreme conditions.
- Enhancement methods for motion control considering uncertainties.
- Environmental and vehicle state parameter estimation for motion control.
- Data-Driven advanced vehicle motion control methods, such as reinforcement learning, deep learning, etc.
- Motion control methods for electric vehicles considering energy efficiency optimization.
- System integration and optimization of motion control for electric vehicles.
- Active fault-tolerant control to ensure vehicle safety.
- Motion planning and control of vehicles in spatially constrained environments.
- Optimized control methods for electric vehicles in complex and constrained environments.
- Modeling and motion control of electric vehicles with special configurations, such as multi-axle vehicles and articulated vehicles.
- Optimized motion control methods for electric vehicles considering actuator or communication delays.
- Cooperative control strategies for connected electric vehicles.

Guest Editor

Dr. Guoxing Bai

School of Mechanical Engineering, University of Science and Technology Beijing, Beijing, China

Deadline for manuscript submissions

31 December 2025



Electronics

an Open Access Journal
by MDPI

Impact Factor 2.6
CiteScore 6.1



mdpi.com/si/244917

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).