

Special Issue

Internet of Vehicles (IoV)

Message from the Guest Editors

This Special Issue aims to explore cutting-edge advancements, theoretical innovations, and practical implementations in the rapidly evolving field of IoV research. As a key enabler of intelligent transportation systems, IoV integrates vehicles, infrastructure, and cloud computing through high-performance communication and interaction frameworks. Topics of interest include, but are not limited to, the following:

- Mobile and wireless communication/networking for IoV;
- Security, privacy, and reliability in IoV systems;
- Testing and validation for transportation safety;
- OpenGateway, Network Exposure Function, CAMARA, and APIs;
- Machine learning and AI applications in IoV;
- Vehicle-to-Everything (V2X), Vehicle-to-Grid (V2G), and Vehicle-to-Home (V2H) communications;
- Intelligent applications and infrastructure for vehicles and traffic systems;
- Autonomous driving and self-driving vehicle technologies;
- Numerical modeling of IoV communication;
- Edge computing and network integration in smart cities;
- Big data governance and analytics for IoV systems;
- 5G and beyond technologies enabling IoV, with or without PC5;
- Emerging IoV applications and services.

Guest Editors

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Deadline for manuscript submissions

closed (30 June 2025)



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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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