

## Special Issue

# Challenges and Opportunities in the Internet of Vehicles

### Message from the Guest Editors

This Special Issue aims to delve into the multifaceted challenges and burgeoning opportunities within the IoV. Submissions of original research work on all topics related to the IoV are welcome. Furthermore, we welcome survey papers that shed light on emerging trends and new research frontiers. In this Special Issue, original research articles and reviews are welcome. Research areas may include (but not limited to) the following:

- Security and privacy in the IoV
- AI- and machine learning-enabled techniques for the IoV
- Vehicular cloud and edge computing
- Federated learning and distributed AI in vehicular networks
- Resource allocations in vehicular networks
- Connected autonomous vehicles
- IoV infrastructure and hardware systems
- Datasets, benchmarks, and open-source tools
- Trustworthy AI systems
- Distributed computing in the IoV
- Digital Twin in the IoV
- Privacy and security in vehicular networks
- Smart transportation
- Explainable AI for vehicular communication networks
- 5G- and 6G-based vehicular communication networks
- Challenges, solutions, and opportunities in the IoV

### Guest Editors

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### Deadline for manuscript submissions

16 January 2026



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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 guestedited by leading experts in selected topics of interest.

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