Special Issue

Enhancing the Robustness, Security, and Intelligence of Communication on the Internet of Vehicles (IoV)

Message from the Guest Editors

The Internet of Vehicles (IoV) is a transformative paradigm revolutionizing transportation by connecting vehicles and infrastructure through a cohesive network. It enhances road safety, traffic efficiency, and driving experience. However, security breaches, privacy concerns, and network reliability are challenges. To fortify IoV infrastructure, researchers are pioneering fault-tolerant communication protocols, adaptive network management, and resilient data transmission. Security measures include encryption, authentication, and intrusion detection systems. Additionally, machine learning, AI, and data analytics elevate IoV intelligence for predictive maintenance, traffic prediction, and intelligent routing. Topics include, but are not limited to:

- Secure architectures for IoV;
- Logically centralized and distributed strategies in IoV;
- Machine learning strategies for IoV;
- Traffic prediction in vehicular networks;
- Integration of software-defined networking (SDN) and vehicular networks.

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Deadline for manuscript submissions

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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.

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