Special Issue

Advanced Technologies for Intelligent Vehicular Networks

Message from the Guest Editors

With the rapid evolution of communication and computation technologies, intelligent vehicular networks have emerged as a key enabler for enhanced traffic management, road safety, and autonomous driving. The integration of 6G technologies, AI, edge computing, and the blockchain is enabling intelligent vehicular networks with real-time, ultra-reliable, low-latency, and high-throughput communications. Despite these advancements, several challenges remain, including security vulnerabilities, intermittent connectivity, and efficient data management in highly dynamic vehicular environments. This Special Issue focuses on innovative solutions and emerging trends, addressing the design, optimization, and implementation of advanced technologies for intelligent vehicular networks. Topics of interest include, but are not limited to, novel network architectures, AI-driven mobility models, vehicular cloud and edge computing, secure communication protocols, and efficient routing mechanisms for real-time V2X communication. Additionally, contributions exploring the role of SDN, the blockchain, game theory, and deep learning for vehicular network optimization are welcomed.

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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.

Editor-in-Chief

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