Special Issue

Intelligent Technologies for Vehicular Networks

Message from the Guest Editor

The aim of this Special Issue is to present papers that address still-present problems in the use of intelligent technologies in next-generation vehicular networks and even survey papers to identify emerging trends and new research challenges. The topics covered include, but are not limited to: exploration of the possibilities brought by the Internet of Things (IoT) for the design and development of protocols, applications and services for IOV-related devices, together with the benefits of machine learning and deep learning algorithms for the intelligent management of vehicular systems (traffic optimisation, road safety issues, social sensing services, privacy techniques, clustering, localization and detection, allocation of computing resources in cloud-based IoV applications and architectures, etc.).

Keywords

- vehicular networks
- machine learning
- vehicle-to-everything (V2X)
- resource allocation
- intelligent vehicular systems
- deep learning
- recurrent neural networks (RNNs)
- convolutional neural networks (CNNs)
- cloud-based vehicular technologies
- IoT/IoV
- networking

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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.

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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).

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