

Special Issue

AI-Driven Traffic Control and Management Systems for Smart Cities

Message from the Guest Editors

The rapid urbanization and increasing vehicle ownership in cities worldwide have led to significant challenges in traffic management and transportation efficiency. Conventional traffic control systems often struggle to adapt to dynamic traffic conditions, resulting in congestion, frequent traffic accidents, increased travel times, and environmental pollution. In recent years, the integration of artificial intelligence (AI) technologies with traffic control and management systems has emerged as a promising solution to these challenges, offering unprecedented opportunities for developing intelligent, adaptive, and responsive transportation networks. We invite authors to submit original and unpublished results utilizing AI-based approaches, such as machine learning (ML), vision-language models (VLMs), large language models (LLMs), reinforcement learning (RL), and other related methods.

Guest Editors

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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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