

## 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 We invite authors to submit original and unpublished results utilizing AI-based approaches, such as machine learning (ML), vision-language models (VLMs), large language models (LLMs), reinforcement learning (RL),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.

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### Guest Editors

Prof. Dr. Chunyue Song

Prof. Dr. Shuyou Yu

Prof. Dr. Beiping Hou

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### Deadline for manuscript submissions

15 October 2025



## Electronics

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### Editor-in-Chief

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