

Special Issue

Smart Mobility and Transportation Infrastructure

Message from the Guest Editors

The transportation landscape is rapidly evolving with the rise of smart mobility, driven by connected technologies, automation, and data-driven solutions. Smart mobility focuses on safety, efficiency, resilience, and sustainability, using intelligent systems to optimize traffic flow, while integrating electrified and multimodal options to address environmental concerns.

This evolution is linked to advancements in infrastructure, which now includes more digital elements. These components support traffic management and enable seamless integration with smart mobility for a unified system. However, integrating smart mobility with infrastructure faces challenges that require innovative research and collaboration.

Technological hurdles include integrating emerging technologies and addressing cybersecurity. Operational challenges include congestion, limited infrastructure, aging systems, and managing diverse mobility modes, especially in cities. Environmental issues focus on sustainability and strengthening infrastructure against climate change. These interconnected challenges highlight the need for coordinated efforts in building future-ready transportation systems.

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