

Special Issue

Computational Intelligence for Intelligent Transportation Systems

Message from the Guest Editors

The development of Intelligent Transportation Systems (ITS) represents a pivotal direction for future urban and inter-urban mobility. This Special Issue will focus on the integration of Computational Intelligence (CI) and advanced materials science to forge the next generation of ITS.

We seek to explore how deep learning, evolutionary algorithms, fuzzy systems, and other CI paradigms can process complex traffic data, enable real-time decision-making, and optimize large-scale network operations. Crucially, we aim to highlight the crucial role of materials innovation in this ecosystem. Contributions that investigate novel sensor materials for enhanced perception, smart infrastructure materials for self-monitoring and durability, and energy-related materials for efficient electric vehicle integration are encouraged.

The Issue will cover topics such as CI-driven traffic prediction and control, connected vehicle networks, and the co-design of material properties with algorithmic efficiency. Bridging computational and physical layers, we provide a forum for research on the algorithms and hardware for intelligent, resilient, and sustainable transportation systems.

Guest Editors

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About the Journal

Message from the Editor-in-Chief

The journal *Mathematics* publishes high-quality, refereed papers that treat both pure and applied mathematics. The journal highlights articles devoted to the mathematical treatment of questions arising in physics, chemistry, biology, statistics, finance, computer science, engineering and sociology, particularly those that stress analytical/algebraic aspects and novel problems and their solutions. One of the missions of the journal is to serve mathematicians and scientists through the prompt publication of significant advances in any branch of science and technology, and to provide a forum for the discussion of new scientific developments.

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