

Special Issue

Data-Driven Intelligent Transportation Systems

Message from the Guest Editors

The transportation sector is undergoing a fundamental shift driven by the unprecedented growth of data from diverse sources. Connected and automated vehicles, roadside and infrastructure-based sensors, mobile devices, and emerging mobility services generate continuous streams of information that capture detailed characteristics of vehicle trajectories, traffic states, infrastructure conditions, and traveler interactions. This rapidly expanding data ecosystem is becoming indispensable for modeling and managing complex transportation networks.

For this Special Issue of *Vehicles*, titled “Data-Driven Intelligent Transportation Systems,” we invite original research that advances the use of data to analyze, model, and improve mobility systems. Contributions may focus on the development of new analytical frameworks, the integration of multi-source datasets, or applications demonstrating the impact of data-driven approaches on system performance and decision-making. Both theoretical and applied studies are welcome, and interdisciplinary research connecting transportation and data science is encouraged.

We invite you to share your research and contribute to this Special Issue.

Guest Editors

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About the Journal

Message from the Editor-in-Chief

In response to economic, political, and environmental pressures, the automotive vehicle community is expanding its research, development, and production of more energysaving, environmentally friendly, and safer ground vehicles through vehicle electrification, powertrain hybridization, high-efficiency drivetrain, autonomous or automated driving, vehicle connectivity, and infrastructure.

Vehicles is a new open access and peer-reviewed international journal that will facilitate rapid publication of scholarly articles on studies related to ground vehicles. Its mission is to publish cutting edge articles, conference proceedings, and to organize Special Issues which highlight outstanding research on specific topics regarding all landbased vehicles with regards to the design, modeling and simulation, manufacture, testing, and operation and modification of those vehicles and their engineering systems.

Editor-in-Chief

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manuscripts are peer-reviewed and a first decision is provided to authors approximately 19.7 days after submission; acceptance to publication is undertaken in 3.8 days (median values for papers published in this journal in the first half of 2026).