

## Special Issue

# Vehicle Systems and Road Infrastructure Integration for Smarter Transportation Systems

### Message from the Guest Editors

This Special Issue explores the integration of vehicle systems and road infrastructure as the foundation for smarter, more efficient transportation networks. With advancements in intelligent transportation systems, connected vehicle technologies, and infrastructure-to-vehicle communication, it is now possible to develop adaptive mobility solutions. The focus is to examine how vehicle technologies synergize with modern road infrastructure to enhance safety, reduce congestion, and improve efficiency through energy harvesting and energy-efficient solutions. Research spans vehicle-to-infrastructure (V2I) communication, intelligent traffic management, sensor networks, data analytics, infrastructure resilience, and vehicle management systems. Developing new tools and methods is essential to advancing the state of the art and supporting deployment. This Special Issue invites submissions that explore technological, methodological, and practical aspects of vehicle and road infrastructure integration, with emphasis on road design solutions, system architectures, and strategies for deploying smarter transportation systems. Articles, reviews, and other contributions are welcome.

### Guest Editors

Prof. Dr. Anna Grana

Prof. Dr. Elżbieta Macioszek

Dr. Maria Luisa Tumminello

### Deadline for manuscript submissions

31 May 2026



## Vehicles

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#### Editor-in-Chief

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