

Special Issue

Sustainable Road Design and Traffic Management

Message from the Guest Editors

Sustainable roads must be planned, designed, built, and managed effectively and efficiently—all while upholding strict environmental standards and ensuring the necessary levels of mobility and safety. Practices like the implementation of complete streets, utilization of recycled and renewable materials, and a holistic approach to drainage play integral roles in mitigating the environmental impact of roads today. Additionally, to meet the demands of modern transportation, researchers and practitioners who deal with road infrastructure must embrace new technologies. These include tools like Building Information Modeling in the design and construction phases and integrating the Internet of Things and Artificial Intelligence in predictive maintenance strategies. By incorporating advanced materials, smart technologies, and sustainable practices while considering the needs of all users, we can create road networks that are efficient, safe, more accessible, environmentally friendly, and resilient.

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