Special Issue

Data-Driven Innovations in Smart and Safe Transportation Infrastructure

Message from the Guest Editors

The evolution of transportation is driven by technological advances, urbanization, and sustainability needs. As mobility grows more complex, conventional infrastructure faces challenges in safety, adaptability, and real-time responsiveness. Smart transportation integrates sensing, data analytics, and adaptive control to enhance efficiency and safety. Meanwhile, transportation safety remains critical, especially for vulnerable users. Beyond reactive analysis, proactive safety modeling using AI, computer vision, and spatiotemporal analytics is emerging—transforming infrastructure into an active risk monitor and mitigator. This Special Issue explores how data-driven smart infrastructure can bridge these gaps by integrating sensing (IoT, LiDAR, CV data), analytics (AI, computer vision, digital twins), and adaptive control (V2I, predictive safety interventions).We request papers that offer methodological innovations, empirical insights, simulation frameworks, or policy-relevant findings that advance our understanding of how infrastructure can be designed, operated, and governed to support safe, efficient, and equitable mobility in the era of intelligent transportation systems (ITSs).

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