

Special Issue

Accident Analysis for Sustainable Safer Roads and Vehicles

Message from the Guest Editor

This Special Issue focuses on recent advances in accident analysis as a foundation for improving road and vehicle safety. Understanding the mechanisms, causes, and consequences of traffic accidents is key to reducing fatalities, injuries, and property damage. Accident analysis increasingly relies on comprehensive data sources such as EDRs, telematics, infrastructure sensors, and national databases. These support models for crash causation, severity prediction, and safety assessment. Topics include high-risk location identification, road design factors, traffic control systems, and vehicle safety systems (e.g., braking, steering, ADAS). Emphasis is placed on vehicle–environment interaction and post-crash response. Crash reconstruction using 3D scanning, photogrammetry, and simulation enhances analysis of speed, impact forces, and occupant kinematics. This issue welcomes novel methods, validated tools, and case studies using real-world data. It bridges traditional crash analysis with data-driven technologies, integrating vehicle systems, infrastructure, and empirical crash data for a holistic safety perspective.

Guest Editor

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I encourage you to contribute a research or comprehensive review article for consideration for publication in Sustainability, an international open access journal which provides an advanced forum for research findings in areas related to sustainability and sustainable development. The journal publishes original research articles, reviews, conference proceedings (peer reviewed full articles) and communications. I am confident you will find the journal contributes to enhancing understanding of sustainability and fostering initiatives and applications of sustainability-based measures and activities.

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