Special Issue

Traffic Emergency: Forecasting, Control and Planning

Message from the Guest Editors

Traffic emergencies are suscept to regular transportation systems, which increase complexity, posing challenges in terms of efficiency and safety. The surge in vehicle volume coupled with the rise in the frequency and intensity of traffic accidents have heightened the need for comprehensive strategies to forecast, control, and plan for traffic emergencies. Traditional systems struggle with dynamic emergencies, leading to prolonged disruptions and safety compromises. Innovative solutions using advanced technologies, data analytics, and interdisciplinary approaches are in demand to enhance responsiveness. Emerging technologies like connected and automatic vehicles and real-time data analytics provide opportunities to revolutionize traffic emergency responses. They offer new tools for prediction, control, and effective communication, ensuring timely information dissemination. This Special Issue aims to highlight new opportunities and challenges for traffic emergency issues and explore innovative methodologies, as well as practical solutions, focusing on improving traffic performance under emergencies with traffic forecasting, control, and planning.

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As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

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