



Traffic Emergency: Forecasting, Control and Planning

Guest Editors:

Prof. Dr. Ping Wang

School of Intelligent Systems
Engineering, Sun Yat-sen
University, Guangzhou, China

Dr. Linlin You

School of Intelligent System
Engineering, Sun Yat-sen
University, Guangzhou, China

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Message from the Guest Editors

Dear Colleagues,

Traffic emergencies are susceptible 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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Editor-in-Chief

Prof. Dr. Giulio Nicola Cerullo

Dipartimento di Fisica,
Politecnico di Milano, Piazza L.
da Vinci 32, 20133 Milano, Italy

Message from the Editor-in-Chief

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Applied Sciences Editorial Office
MDPI, St. Alban-Anlage 66
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