Special Issue

Data-Driven Analysis and Control Methods in ITS and Accident Prevention

Message from the Guest Editors

Emerging techniques such as big data, Internet of Things (IoT), artificial intelligence, blockchain, and hypercomputation have been deeply integrated into the transportation field, enabling data-driven methods to become a potential approach in intelligent transportation systems (ITS). Meanwhile, based on data and driven by new techniques, accident prevention always plays an important role in conventional and intelligent transportation systems. Accordingly, it is critical to collect, process, and apply data from different sources for intelligent transportation systems and accident prevention.

This SI will concentrate on the theories, methodologies, and applications of data-driven methods for analysis, modeling, optimization, and control in ITS and accident prevention. Submissions to this SI are encouraged to employ deep learning, reinforcement learning, and other machine learning methods as well as interdisciplinary approaches for data preprocessing, data mining, and data postprocessing. The aim of this SI is to reveal the emerging techniques and the most recent developments of data-driven analysis, modeling, optimization, and control in ITS and accident prevention.

Guest Editors

Prof. Changxi Ma

School of Traffic and Transportation Engineering, Lanzhou Jiaotong University, Lanzhou 730070, China

Dr. Xuecai Xu

School of Civil and Hydraulic Engineering, Huazhong University of Science and Technology, Wuhan 430074, China

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Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
sustainability@mdpi.com

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Prof. Dr. Marc A. Rosen
Faculty of Engineering and Applied Science, University of Ontario Institute of Technology, Oshawa, ON L1G 0C5, Canada

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