

Special Issue

Data-Driven Rail Transit Operation, Timetable Scheduling, and Dispatching

Message from the Guest Editors

Rail transit has developed rapidly all over the world. Based on global data regarding train operations and considering the mutual influence of adjacent trains, it would be beneficial to analyze the interactive relationship between trains and the comprehensive formulation of decisions and schedules. Data science provides a new solution to the problem of train operation, timetable scheduling, and dispatching. Data-driven train dispatching has aroused huge interest in the railway industry considering using AI and data science. In this Special Issue, original research articles and reviews are welcome, research areas may include, but are not limited to the following:

- Train operation visualization;
- Train timetable scheduling;
- Train timetable rescheduling;
- Train operation adjustment;
- Data-driven rail transit capacity utilization optimization;
- Data-driven train operation conflicts detection and resolution;
- Data-driven delay propagation models;
- Data-driven rail transit maintenance;
- Data-driven train dispatching decision-making;
- Intelligent rail transit dispatching system.

We look forward to receiving your contributions.

Guest Editors

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Prof. Dr. Shuguang Zhan

Deadline for manuscript submissions

closed (15 November 2023)



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Message from the Editor-in-Chief

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.

Editor-in-Chief

Prof. Dr. Steve W. Lyon

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