

## 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.

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### Guest Editors

Dr. Chao Wen

Prof. Dr. Xinyue Xu

Dr. Pengling Wang

Dr. Wenxin Li

Prof. Dr. Shuguang Zhan

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### Deadline for manuscript submissions

closed (15 November 2023)



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### Editor-in-Chief

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