Journal of Advanced Transportation

Special Issue on

Modelling Opportunities and Challenges with the Emerging Traffic and Transit Data

CALL FOR PAPERS

With the advancement in technology, new sources of transport data (including traffic and transit) have emerged, which can potentially facilitate and even revolutionise transport models. These new data complement the traditional datasets and provide opportunities to support the development, specification, calibration, and validation of models ranging from long-term demand forecasting to real-time traffic management by understanding complex interactions between multimodal transport systems and the underlying travel behaviour and transport dynamics. The new data also comes with new challenges related to data cleaning, crunching, integration, and fusion.

This special issue focuses on various aspects of the exploitation of emerging data for network planning, operations, management, and control. We invite authors to submit original research findings that address challenges and explore new opportunities associated with these trends.

Potential topics include but are not limited to the following:

- New insights in travel behaviour modelling, traffic state estimation, and prediction
- Travel patterns and multimodal travel behaviour
- Transit network monitoring, modelling, or control
- Application of data from connected and autonomous vehicle
- Ride-sourcing, ride-sharing, and other decentralized mobility solutions with data driven approach
- Data driven operation of transport systems with artificial intelligence and machine learning methods
- Big data analytics in transport
- Large-scale model calibration and validation
- Data and modelling challenges in emerging (low or middle income) economies

Authors can submit their manuscripts through the Manuscript Tracking System at http://mts.hindawi.com/submit/journals/jat/moch/.

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