SPECIAL ISSUE ON:
Traffic Theory and Modelling in the Era of Artificial Intelligence and Big Data (in collaboration with World Congress for Transport Research, WCTR 2019)

Editor-in-Chief: Margaret Bell, Newcastle University, UK

With the rapid development of urbanisation and motorisation, safety, congestion, emission, and sustainability have become major challenges for many large cities. Intelligent transport systems (ITS) are one of the important technical measures needed to address the above-mentioned challenges. The theory and method of ITS are closely related to the development of telecommunications, electronics, and information technologies. The era of artificial intelligence and big data have been changing the traditional modelling methods in ITS. With new technologies, travel demand and mode identifying, location or trajectory-based travel service, network situation recognition, traffic management, signal control, and ridesharing are becoming more intelligent and effective. This leads to huge potential for traffic modelling in ITS using Artificial Intelligence and Big Data.

This special issue welcomes submissions with respect to novel traffic modelling in ITS-based Artificial Intelligence and Big Data.

Topics of interest include but are not limited to:

- Traffic network information collection and processing
- Data integration and analytics of ITS
- Modelling of the car and bicycle sharing systems
- Modelling traffic dynamics of connected autonomous vehicles
- Mobility as a Service Systems
- Spatial and temporal patterns of the multi-modal transportation using big data
- Traffic management and control using machine learning
- Traffic related air pollution data collection and modelling
- Intelligent and connected infrastructure systems

All papers must be submitted through the journal’s ReView system: https://www.iet-review.rivervalleytechnologies.com/journal/its

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Guest Editors:
Prof Sheng Jin
Zhejiang University, China
E: jinsheng@zju.edu.cn
Prof Yadan Yan
Zhengzhou University, China
E: yanyadan@zzu.edu.cn

Prof Xiaobo Qu
Chalmers University of Technology, Sweden
E: xiaobo@chalmers.se

Prof Qiang Meng
National University of Singapore, Singapore
E: ceemq@nus.edu.sg

Prof Changfu Zou
Chalmers University of Technology, Sweden
E: changfu.zou@chalmers.se