

International workshop on Large-Scale Traffic Modeling and Management

ITSC 2017, Yokohama

Over decades, traffic models and control strategies based on disaggregated traffic flow models, which track individual vehicle movements on a second or sub-second basis, have been proposed and applied for isolated intersections or coordinated intersections in arterial roads. In contrast, macroscopic network traffic modeling (MFD or NFD) aims at simplifying the complex task of urban network modeling where the collective traffic flow dynamics of subnetworks capture the main characteristics of traffic congestion propagation, such as the evolution of traffic states in different regions of the city. This approach also offers great opportunities to facilitate efficient large-scale control in congested networks, e.g. perimeter control. This workshop follows this research direction, and encourages the recent advances in traffic modeling and management of large-scale (multimodal) urban networks, addressing both theoretical and empirical aspects.

Scope

- Advances in traffic flow theory for large-scale networks
- Novel optimization approaches for large-scale traffic networks
- Multimodal modeling and management
- Aggregated travel behavior analysis and prediction
- Data fusion techniques for network traffic estimation
- Integration of information technologies (e.g. smart applications) in traffic operation
- Integration of vehicle technologies (e.g. connected vehicles) in traffic control
- Empirical analysis on network-level traffic characteristics in cities

Important Dates

Paper submission deadline: June 30, 2017

Notification of acceptance: August 15, 2017

Workshop day: Oct 15, 2017

Conference days: Oct 16-19, 2017

Submission

Prospective authors are required to submit their papers via <http://edas.info/N23219> and select “[WS10]”. Submissions should follow IEEE conference format (max. 6 page length). Please refer to conference website for more detailed information on submission preparation. Accepted papers will be published in IEEE Explorer.

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