7th International Conference on

Innovations in Travel Modeling (ITM)

June 24-27, 2018   Grand Hyatt Buckhead-Atlanta
3300 Peachtree Rd NE, Atlanta, GA 30305

Call for Research Briefs and Abstracts
Deadline: December 11, 2017

The Transportation Research Board (TRB) Innovations in Travel Modeling (ITM) conference series has become the leading venue for researchers and practitioners to come together and discuss, debate, and share information about advances in travel analysis and modeling methods. The ITM conference series is intended to bridge the gap between research and practice and help accelerate the deployment of new methods, tools, technologies, and algorithms in freight and passenger travel forecasting model systems. The conference series was launched in 2006 and is held every other year, with the seventh edition scheduled to take place in Atlanta, Georgia during June 24-27, 2018. The conference offers a mix of sessions, workshops, tutorials, and networking events that makes for an intellectually vibrant event.

This conference is sponsored by the TRB Travel Analysis Methods Section (ADB00) which is comprised of the following committees: Traveler Behavior and Values (ADB10), Effects of ICT on Travel Choices (ADB20), Transportation Network Modeling (ADB30), Transportation Demand Forecasting (ADB40), Transportation Planning Applications (ADB50), and Travel Forecasting Resources (ADB45).

The conference organizing committee invites contributions on innovations in freight and passenger transport modeling for possible presentation at the conference. The field of transport modeling is seeing rapid developments in a number of topic areas and ITM2018 will serve as a key opportunity for researchers and practitioners to develop roadmaps for deploying innovations in practice, thus enabling transport models to address emerging issues and forecast demand and network dynamics under a wide range of scenarios. The field is also seeing models being subjected to increased scrutiny, calling for travel modelers to implement enhanced model validation and forecast accuracy checks while dealing with greater levels of socio-economic, demographic, and technological uncertainty.

The conference organizing committee seeks submissions describing innovations in all aspects of transport modeling and data science. Key topics of interest include, but are not necessarily limited to:

- Reflecting behavioral processes and lifestyle motivations in travel models – learning and adaptation, interactions, and well-being or quality of life
- Changes in attitudes and behaviors – what does the future hold (e.g., Millennials, Gen Z)
- Modeling connected and autonomous vehicles, shared mobility services, transportation network companies (TNCs), internet-of-things (IoT), and mobility-on-demand technologies
- Assessing model forecast accuracy and accounting for risk and uncertainty in travel models
- Location/destination choice modeling and sense of place
- Advances in modeling freight flows and movement of goods and services

- Integrated models connecting any combination of land use, activity-travel demand, network dynamics, energy and environment, and health outcomes
- Using new big/small data streams, such as real-time crowdsourced and social media data, to inform and develop travel models, including applications of machine/deep learning techniques
- Innovations in data collection, analytics, synthesis, and visualization
- Advanced econometric and statistical methods for representing complex behaviors
- Innovative applications to address policy questions – emerging vehicle/technology adoption, response to pricing, and equity and social exclusion
- High performance computing, cloud-based, and agile software platforms for transport modeling

The conference welcomes two types of contributions.

Research Briefs may be submitted for possible consideration as full-length presentations in regular podium sessions. Research Briefs must be no more than 2,500 equivalent words (each table or figure is equivalent to 250 words). Briefs exceeding the word limit will not be considered. Each brief should contain the following sections:
•   Objectives and motivations
•   Methodology and data
•   Major results (anticipated)
•   Implications for the science and/or practice of travel modeling

Abstracts may be submitted for possible consideration as short "lightning" talks. Abstracts must not exceed 300 words in length and should clearly and succinctly outline the objectives, methodology, key contributions and implications for travel modeling. Abstracts exceeding the 300 word limit will not be considered.

All submissions should describe: 1) innovative methods and techniques that can be incorporated in operational modeling frameworks, 2) an unsolved problem in travel modeling to foster discussion, or 3) pathways for how innovation can make its way from research to impact decision-making. The committee encourages 'concept' or 'idea' papers in addition to studies focusing on empirical analyses. Contributors should address how their submitted work fosters innovation and discuss possible applications of the innovation they propose.

Please submit contributions at the following website:

https://catalyst.omnipress.com/#collection/216/submission

by December 11, 2017

Questions about ITM2018 may be directed to Jennifer Weeks, Senior Program Officer for Planning and Travel Forecasting, Transportation Research Board, at jlweeks@nas.edu or 202-334-2122.