Transportation Research Board

AGENDA

Committee on Traffic Flow Theory and Characteristics (AHB45)

Summer Meeting

Wednesday July 17, 2013 17:15-17:45

Huis ter Duin, Noordwijk aan Zee, the Netherlands

Welcome and Call to Order  R. Bertini
Introductions – Members & Friends  All Attendees
Brief Subcommittee Reports Based on Attendance
  Joint Subcommittee on Traffic Simulation Models  G. List
  Research Problem Statements  M. Hadi
  Paper Review and Sessions  N. Geroliminis
Greenshields Prize Announcement  N. Gartner
Mid-Year Meeting 2014  R. Bertini
  Possible Dates
  Agenda
  Call for Abstracts
Outreach and Diversity  S. Hamdar
Strategic Planning  M. Zarrillo
Classic Papers  S. Ahn, J. Laval & N. Geroliminis
Special Report on Traffic Flow Theory  H. Mahmassani
PEPS (Education)
Webinars  J. Laval
Liaison with other Committees  All Attendees
International Liaison  International members and attendees
Announcements and Future Meetings  All Attendees
New Business  All Attendees
Adjourn  R. Bertini
Call For Papers
TRB 91st Annual Meeting January 22-26, 2012

Call Title: Modelling pedestrians and motorized traffic

Sponsoring Committee: ANF10 - Pedestrians

Co-Sponsoring Committee(s): AHB45 - Traffic Flow Theory and Characteristics

Call Description: This call addresses the context of modeling and simulation of traffic and pedestrian flows. Societal issues present and future (aging, public health, development of new transportation modes) require a better knowledge of pedestrian travels and behaviors as well as their interactions with the environment. To carry out this work, simulation tools are playing an increasingly important role for infrastructure design, network operation and new mobile services. Moreover pedestrian simulation tools today take little account of the heterogeneity and dynamic features of the environment, when pedestrians walk on sidewalks or cross a street, the latter being the opportunity for important interactions between pedestrians and drivers. Papers are invited on the following topics:

Modeling and Simulation Topics
- Data collection (from GIS itineraries to the fine trajectories)
  * Tools to collect, to extract
  * Data standards for the datasets
- Microscopic level
  * Interaction between pedestrians and drivers (shared space, street crossing)
  * Similarities, differences between traffic networks and pedestrian networks
  * Collision avoidance models: similarities, differences
  * Calibration and validation topics
- Macroscopic level:
  * Fundamental diagram
- Can we transfer what we know about motorized traffic flow to pedestrian flow?
  * O/D matrices
  * Dynamic Traffic Assignment for pedestrians
  * Interaction between pedestrian and motorized traffic flow

Urban Planning and Design Application Topics
- Shared space
- Commercial area parking
- Urban traffic regulation
- Pedestrian health and the vehicle gas emission
- Pedestrian safety assessment (based on observations, accidents or surrogate events, or the simulation of pedestrian motorized traffic)

Call organizers: Jean-Michel Auberlet, Serge Hoogendoorn, Nicolas Saunier, Tarek Sayed

Subject Areas(s): Data and Information Technology, Design, Pedestrians and Bicyclists, Safety and Human Factors
Authors interested in submitting papers are advised to visit [www.TRB.org/AnnualMeeting](http://www.TRB.org/AnnualMeeting) and review the Information for Authors. Authors submitting papers in response to this Call for Papers should submit full papers for peer review to the Transportation Research Board online at [www.TRB.org/AnnualMeeting](http://www.TRB.org/AnnualMeeting). This paper submission is open from June 1 to August 1. Please show the sponsoring committee name or the Call for Papers title on the papers submission form. Please contact the Call for Papers organizer if you are submitting a paper or need additional information.

**Paper Submission Requirements**

TRB has a single paper submittal deadline for the Annual Meeting. Papers must be in PDF format and submitted by **August 1, 2011**. The paper submission website will close when it is no longer August 1 anywhere in the world. Also, authors are asked to add line numbering to their papers in their word-processing program (starting with number one on each page) prior to converting to PDF to facilitate the review process. TRB recommends that authors submit their papers well before the deadline to avoid last minute complications and delays.

**Call Organizer:**

Jean-Michel Auberlet (jean-michel.auberlet@ifsttar.fr)
A joint summer meetings of the Transportation Research Board Highway Capacity and Quality of Service (AHB40) and Traffic Flow Theory (AHB45) Committees will be held in Fort Lauderdale, FL from June 20 to June 23 2012. This joint meeting will be a significant opportunity for transportation researchers and practitioners to interact and identify research findings that would benefit the existing highway capacity analysis procedures; to formulate goals for updating the United States Highway Capacity Manual; and to identify research needs related to traffic flow and highway capacity analysis.

Authors are invited to submit extended abstracts of papers for presentation at the meeting. The papers should focus on research and/or research applications in the areas of traffic flow theory, data, and characteristics as they relate to estimating highway capacity and quality of service. It is anticipated that the presentations will provide insights into the connections of recent traffic flow theory and characteristics research to highway capacity and quality of service analysis. The followings are examples of topics of particular interest:

- Methodological advancements in traffic flow fundamentals that relate to HCM models
- Calibration/validation of HCM methods
- Methods for measuring or estimating HCM-defined performance measures
- The use of additional performance measures that can supplement HCM measures
- Procedures and tools for evaluating advanced technologies and active traffic management strategies
- Analysis of congested/breakdown conditions as related to capacity
- Stochastic Capacity Variation and Travel Time Reliability
- Interactions between different transportation modes/vehicle types as related to highway capacity
- Influence of variations in driver behaviors in different countries/regions on capacity

An extended abstract of no more than 1000 words should be submitted by December 1st, 2011. The submission should include the presentation title, name and affiliation of author(s), and the e-mail addresses of the author(s). The abstract should be sufficiently detailed and should indicate at a minimum the objectives, methodology, results, and important conclusions of the work to be reported. The extended abstracts may include up to two figures, if this is necessary to illustrate the presented methodology or results. It is expected that the authors will be able to submit their papers through a web site starting September 1st, 2011.

Papers will be selected for presentation through a peer review process by the TRB’s AHB40 and AHB45 committees. The authors of the selected abstracts will be notified of the acceptance of their presentations by February 15th, 2012. A subset of the presented papers will be selected for further review for potential publication in a special issue of the American Society of Civil Engineers Journal of Transportation.
Deadlines

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<th>December 1, 2011</th>
<th>Abstract Submission</th>
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<td>February 15th, 2012</td>
<td>Abstract Acceptance Notification</td>
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Organizing Committee

Dr. Mohammed Hadi, Florida International University, Chair of the Organizing Committee
Dr. Robert Bertini, Portland State University, Chair of the Traffic Flow Theory and Characteristics Committee
Dr. Darcy Bullock, Purdue University
Dr. Lily Elefteriadou, University of Florida, Chair of the Highway Capacity and Quality of Service Committee
Dr. Nikolas Geroliminis, L'Ecole Polytechnique Federale de Lausanne (EPFL), Switzerland
Dr. Samer Hamdar, George Washington University
Mr. William Sampson, University of Florida
Dr. Bastian Schroeder, Institute for Transportation Research & Education (ITRE), North Carolina State University
Mr. Robert Sheehan, Federal Highway Administration