

AGENDA

Emerging Methods Subcommittee Meeting (ADB40(1))

Subcommittee to the Committee on Transportation Demand Forecasting (ADB40)

“Fostering Innovations on Emerging Methods”

Monday, January 22, 12:15 - 1:15 p.m. at the Hilton (Adams)

Joan Walker and Laurie Garrow, presiding

1. Welcome and Introductions
2. Initiatives from the 2006 Meeting
 - THEME of *Integration of Demand and Supply Models*
@ INFORMS, TRB, WCTR
with *ADB10(2)* and *ADB30*
 - *Methodological Advances in Activity-Travel Behavior Analysis*
with *ADB10* and *ABJ80*
3. *Open Discussion of Emerging Methodological Developments*
(See attached history of CFPs)
4. *Discussion of Initiatives for 2007*
 - TRB 2008 (Workshops/Calls for Papers/Review Process)
 - Collaboration with Other TRB Committees/Subcommittees
 - Activities beyond TRB?
5. Conference Reports / News / Other Business
6. Adjourn

Contact Joan Walker (joanw@bu.edu) or Laurie Garrow (laurie.garrow@ce.gatech.edu) if you would like to add something to the agenda.

History of Calls for Papers & Workshops from ADB40(1)

- 2007 Integrating Land Use and Transportation Models
with ADB10(2) and ADB30
- Advances in Statistical Methods for Activity-Travel Behavior
with ADB10 and ABJ80
- 2006 Evaluation of User Benefits for Project Analysis
- 2005 Intra-Household Interaction and Group Decision-Making
Non-Conventional Models and Estimation Techniques
Workshop: Innovative Travel Models: Proof of Concept
- 2004 Choice Set Construction
Dynamics and Models of Decision-Making in a Temporal Context
Workshop: Microsimulation
- 2003 Discrete Choice Model Formulations: Interrelationships, Applicability,
and Issues
Dynamic Models and Processes in Activity-Based Analysis
Microsimulation Models and Methods for Activity-Based Forecasting
and Planning Applications
- 2002 Applications of Mixed Logit Models in Activity-Travel Demand Analysis
Spatial Analysis Methods in Urban Activity and Travel Demand
Modeling
- 2001 Uncertainty Analysis
Spatial Analysis in Travel Demand Modeling
Allocation of Activities within Individuals in Households
Practical Implications of Activity-Based Modeling
- 2000 Application of Microsimulation Techniques in Activity-Travel Pattern
Analysis
Modeling Time-Space Interactions in Individual Activity-Travel Patterns

ADB40(1) TRB 2007 Activities

Workshop 168: Integrating Demand and Supply Travel Models

Sunday, January 21, 2007, 1:30-5:00, Hilton Conservatory

Joan Walker, presiding

Overview

Srini Peeta

Panel 1: State of Best Practice and Needs

Maren Outwater, Ken Cervenka, Rick Donnelly, Rick Dowling

Panel 2: Advancing Practice

Kay Axhausen, Chandra Bhat, Davis Boyce, Hani Mahmassani, Amelia Regan

Closing Comments

Harry Timmermans

Session 714: Methodological Advances in Activity-Travel Behavior Analysis

Wednesday, January 24, 2007, 2:30 PM - 4:00 PM, Hilton Georgetown East

Laurie Garrow, presiding

Approximation of Bayesian Efficiency in Experimental Choice Designs ([07-0179](#))

Michiel C.J. Bliemer, John Matthew Rose, Stephane Hess

Estimation of the Cross-Nested Logit Model for a Large Number of Alternatives ([07-0662](#))

Shlomo Bekhor

Multiple Discrete-Continuous Extreme Value Model: Role of Utility Function Parameters, Identification Considerations, and Model Extensions ([07-2532](#))

Chandra R. Bhat

Analysis of Relationship Between Timing and Duration of Maintenance Activities Using Alternative Joint Discrete-Continuous Modeling Systems ([07-3418](#))

Xin Ye, Ram M. Pendyala

Nonlinearity and Specification of Attitudes Toward Risk in Discrete Choice Models ([07-2127](#))

John W. Polak, Xiang Liu

Session 746: Integrating Demand and Supply Models

Thursday, January 25, 2007, 10:15 AM - 12:00 PM, Hilton Jefferson East

Srinivas Peeta, presiding

Application of Cross-Nested Logit Route Choice Model in Stochastic User Equilibrium Traffic Assignment ([07-2185](#))

Shlomo Bekhor, Lena Reznikova, Tomer Toledo

Dynamic Microassignment Modeling Approach for Integrated Multimodal Urban Corridor Management ([07-2128](#))

Xuesong Zhou, Hani S. Mahmassani, Kuilin Zhang

Offline Calibration of Dynamic Traffic Assignment: Simultaneous Demand-Supply Estimation ([07-2878](#))

Ramachandran Balakrishna, Moshe E. Ben-Akiva, Haris N. Koutsopoulos

Method of Estimating Parameters on Transportation Equilibrium Models: Toward Integration Analysis on Both Demand and Supply Sides ([07-2067](#))

Shoichiro Nakayama, Richard Connors, David Paul Watling

Truly Agent-Oriented Coupling of Activity-Based Demand Generation with Multiagent Traffic Simulation ([07-2242](#))

Marcel Rieser, Kai Nagel, Ulrike Beuck, Michael Balmer, Jens Rumenapp, Gertz Gutsche Rumenapp