

A1C02 Committee/Subcommittee Meetings at TRB 2002

A1C02

Chandra R. Bhat, chair; Tuesday, 8:00 a.m.-12:00 p.m., Hilton, Georgetown East
Committee on Passenger Travel Demand Forecasting

A1C02(1)

Chandra R. Bhat, chair; Tuesday, 1:30 p.m.-3:15 p.m., Hilton, Edison
Subcommittee on Emerging Methods and Developments in Urban Activity and Travel
Analysis

A1C02(2)

Eric J. Miller, chair; Wednesday, 7:30 p.m.-9:30 p.m., Hilton, Caucus
Subcommittee on Integrated Transportation and Land Use Modeling

Sessions Sponsored by A1C02 Committee

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Monday, January 14, 8:00 a.m.-9:45 a.m., Hilton

Activity-Travel Analysis: Interactive Agents, Fixed Commitments, and Spatial Transferability

T. Keith Lawton, Portland Metro, presiding

Sponsored by Committee on Passenger Travel Demand Forecasting

AMADEUS: Framework for Developing a Dynamic Multiagent, Multiperiod, (02-2494)

Harry Timmermans and Theo Arentze, Eindhoven University of Technology, Netherlands; Martin Dijst, Utrecht University, Netherlands; Elenna Dugundji, Amsterdam University, Netherlands; Chang-Hyeon Joh, Eindhoven University of Technology, Netherlands; Loek Kapoen, Amsterdam University, Netherlands; Stephan C. Krygsman, Utrecht University, Netherlands; Kees Maat, Delft University of Technology, Netherlands; Jan Veldhuisen, Eindhoven University of Technology, Netherlands

Investigation of Household Travel Behavior in Developing Countries Using a Nested Logit Model of Vehicle Ownership, Mode Choice, and Trip Chaining, (02-2688)

Dilum Deepika Dissanayake and Takayuki Morikawa, Nagoya University, Japan

Exploratory Analysis of Fixed Commitments in Individual Activity-Travel Patterns, (02-3268)

Chandra R. Bhat and Teresa Frusti, University of Texas, Austin; Kay W. Axhausen, ETH Zurich, Switzerland

Comparing Urban Activity Travel Behavior, (02-3006)

Cinzia Cirillo, University of Notre Dame, Belgium

Spatial Transferability of the Albatross Model System, (02-2071)

Theo Arentze, Eindhoven University of Technology, Netherlands; Frank Hofman and Henk van Mourik, Ministry of Transport, Public Works and Water Management, The Netherlands; Harry Timmermans, Eindhoven University of Technology, Netherlands

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Monday, January 14, 10:15 a.m.-noon, Hilton

Flexible Discrete Choice Models: Specification, Estimation, and Application

Karthik K. Srinivasan, Vanderbilt University, presiding

Sponsored by Committee on Passenger Travel Demand Forecasting

Logit Kernel (Continuous Mixed Logit) Model: Dispelling Misconceptions of Identification, (02-3937)

Joan Walker, Massachusetts Institute of Technology

Simulation Estimation of Mixed Discrete Choice Models Using Randomized and Scrambled Halton Sequences, (02-2146)

Chandra R. Bhat, University of Texas, Austin

Adaptation of Logit Kernel to Route Choice Situation, (02-3882)

Shlomo Bekhor and Moshe E. Ben-Akiva, Massachusetts Institute of Technology; Scott Ramming, J.F. Sato and Associates

Predicting Mode Choice Through Multivariate Recursive Partitioning, (02-2457)

Matthew G. Karlaftis, National Technical University of Athens, Greece

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Monday, January 14, 1:30 p.m.-3:15 p.m., Hilton

Integrated Land Use-Transportation Modeling: Design and Application Issues

John Douglas Hunt, University of Calgary, Canada, presiding

Sponsored by Committee on Passenger Travel Demand Forecasting and Committee on Transportation and Land Development

Comparison of Highway and Travel Demand Management Measures Using Integrated Land Use and Transportation Model in the Sacramento Region, (02-3827)

Caroline J. Rodier, University of California, Davis; John E. Abraham, University of Calgary, Canada; Robert A. Johnston, University of California, Davis

Design of Integrated Land Use and Activity-Based Travel Model System, (02-2186)

Paul Waddell, University of Washington; Maren L. Outwater, Cambridge Systematics, Inc.; Chandra R. Bhat, University of Texas, Austin; Larry Blain, Puget Sound Regional Council

Alternative Futures for Transportation and Land Use: Integrated Models Contrasted with Trend-Delphi Methods-- Portland Metro Results, (02-2555)

Sonny David Conder and T. Keith Lawton, Portland Metro

Road Expansion, Urban Growth, and Induced Travel: Path Analysis, (02-2265)

Robert Burke Cervero, University of California, Berkeley

Transportation Investments and Urban Form, (02-2163)

David J. Forkenbrock, University of Iowa

Tuesday, January 15, 2:30 p.m.-5:30 p.m., Hilton

Unveiling New Aspects of Travel Behavior (Poster Session)

Sponsored by Committee on Traveler Behavior and Values and Committee on Passenger Travel Demand Forecasting

HP-1 Structural Equations Analysis of Within-Household Activity and Time Allocation Between Two Adults, (02-2566)

Srinivas Meka, Ram M. Pendyala, and Mampearachchige Wasantha Kumara, University of South Florida

HP-2 Travel Behavior Analysis of South Perth Individualized Marketing Intervention, (02-2720)

Konstadinos G. Goulias, Pennsylvania State University; Werner Broeg, Socialdata GmbH, Germany; Bruce James and Colin Graham, Western Australia Transport

HP-3 Effects of Reconstruction of I-880 on Travel Behavior, (02-2153)

Joy Wilbrand Dahlgren, University of California, Berkeley

HP-4 Mobility Styles and Travel Behavior: Application of Lifestyle Approach to Leisure Travel, (02-3411)

Martin Lanzendorf, University of Utrecht, Netherlands

HP-5 Investigating Travel and User Characteristics of Toll Roads Based on Travel Survey of Central Florida Expressway System, (02-2440)

Hassan T. Abdelwahab and Mohamed A. Abdel-Aty, University of Central Florida

HP-6 Stationary and Time-Varying Patterns in Activity Diary Panel Data: Explorative Analysis Using Association Rules, (02-2172)

Bertold Keuleers and Geert Wets, University of Limburg, Belgium; Harry Timmermans, Theo Arentze, and Koen Vanhoof, Eindhoven University of Technology, Netherlands

HP-7 Aggregate Regimes and Individual Routines in Activity-Travel Patterns, (02-2326)

Aloys Borgers, Maarten Ponje, Harry Timmermans, and Peter van der Waerden, Eindhoven University of Technology, Netherlands

HP-8 Trip Time Perception and Judgment Processes in Trip-Maker Decisions Under Real-Time Traffic Information, (02-3952)

Karthik K. Srinivasan, Vanderbilt University; Hani S. Mahmassani, University of Texas, Austin

HP-9 Untangling Factors Behind Temporal Evolution of Mobility: Case of Sao Paulo, Brazil, (02-4003)

Orlando Strambi and Karin-Anne van de Bilt, Escola Politecnica, Brazil

HP-10 Comparison of Performance of Nested Logit Models and Artificial Neural Networks for Predicting Household Automobile Choices, (02-3155)

Abolfazl Mohammadian and Eric J. Miller, University of Toronto, Canada

HP-11 Neighborhood Services, Trip Purpose, and Tour-Based Travel, (02-3521)

Kevin J. Krizek, University of Washington

HP-12 On the Structure of Weekly Activity-Travel Patterns, (02-3211)

Ming S. Lee, TJKM Transportation Consultants; Michael G. McNally, University of California, Irvine

HP-13 Structural Equation Models of Day-To-Day Activity Participation and Travel Behavior in a Developing Country, (02-3418)

Jin-Hyuk Chung and Yongsung Ahn, Chung-Ang University, Korea

HP-14 Incorporating Variety-Seeking and Seasonality in Stated-Preference Modeling of Leisure Trip Destination Choice: Test of External Validity, (02-2717)

Astrid Kemperman, Aloys Borgers, and Harry Timmermans, Eindhoven University of Technology, Netherlands

- HP-15 Intershopping Duration: Analysis Using Multiweek Data, (02-3012)**
Chandra R. Bhat, Teresa Frusti, and Huimin Zhao, University of Texas, Austin; Stefan Schonfelder and Kay W. Axhausen, ETH Zurich, Switzerland
- HP-16 Estimation of Preferred Departure Times and Changes in Departure Time Patterns, (02-3024)**
Raoul Teekamp, Goudappel Coffeng BV, Netherlands; Erwin Marco Bezembinder and Dirk Hendrik van Amelsfort, Goudappel Coffeng BV, The Netherlands; Eric Cor van Berkum, University of Twente, Netherlands
- HP-17 Structural Model of Automobile Demand in Korea, (02-2910)**
Jin-Hyuk Chung and Dongkyu Lee, Chung-Ang University, Korea
- HP-18 Analysis of Drivers' Route Choice Behavior by Data Mining Algorithms, (02-2695)**
Toshiyuki Yamamoto, Ryuichi Kitamura, and Junichiro Fujii, Kyoto University, Japan
- HP-19 Patricia: Predicting Activity-Travel Interdependencies Using a Suite of Choice Based Interlinked Analyses, (02-2686)**
Aloys Borgers, Harry Timmermans, and Peter van der Waerden, Eindhoven University of Technology, Netherlands
- HP-20 Household Vehicle Ownership by Vehicle Type: Application of a Multivariate Negative Binomial Model, (02-2631)**
Yong Zhao and Kara M. Kockelman, University of Texas, Austin
- HP-21 Qualitative Methods in Travel Behavior Research, (02-2545)**
Kelly J. Clifton, University of Iowa; Susan Handy, University of Texas, Austin
- HP-22 Do You Go to the Movies on Your Lunch Break? Trip- and Trip-Context-Data Based Modeling of Activities, (02-2416)**
Tobias Georg Kuhnimhof, University of Karlsruhe, Germany; Volker Wassmuth, PTV AG, Germany
- HP-23 Comparison of Morning and Evening Commutes, (02-2251)**
Charles R. Lindsey, University of Alberta, Canada; Andre De Palma, University of Cergy-Pontoise, France
- HP-24 Unified Mixed Logit Framework for Modeling Revealed and Stated Preferences: Formulation and Application to Congestion Pricing Analysis in San Francisco Bay Area, (02-2128)**
Chandra R. Bhat and Saul Castelar, University of Texas, Austin
- HP-25 Exploration of Relationship Between Timing and Duration of Maintenance Activities, (02-2827)**
Ram M. Pendyala, University of South Florida; Chandra R. Bhat, University of Texas, Austin; Abhishankar Parashar and Govardhan R. Muthyalagari, University of South Florida

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**Thursday, January 17, 8:00 a.m.-9:45 a.m., Hilton
Emerging Methods and Practices in Travel Modeling**

Chandra R. Bhat, University of Texas, Austin, presiding

Sponsored by Committee on Passenger Travel Demand Forecasting

**Prediction of Recreational Travel Using Genetically Designed Regression and Time Delay
Neural Network Models, (02-2377)**

Pawan Lingras, Saint Mary's University, Canada; Satish C. Sharma and Ming Zhong,
University of Regina, Canada

**How Much Do I Pay to Drive? Modeling Expected Ownership and Operating Cost of
Vehicles, (02-3229)**

Abolfazl Mohammadian and Eric J. Miller, University of Toronto, Canada

Automobile Ownership Analysis Using Ordered Probit Models, (02-3597)

You-Lian Chu, Parsons Transportation Group, Inc.

**Microsimulation in Travel Demand Modeling: Lessons from New York Best Practice
Model, (02-3668)**

Peter S. Vovsha, Eric Petersen, and Robert Donnelly, Parsons Brinckerhoff, Inc.

**Managing Competition in Microsimulation: Implications for Destination Choice and
Nonmotorized Modeling, (02-3697)**

Eric Petersen, Peter S. Vovsha, and Robert Donnelly, Parsons Brinckerhoff, Inc.

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Thursday, January 17, 10:15 a.m.-noon, Hilton

**Integrated Land Use-Transportation Modeling: Accessibility and Uncertainty
Propagation Considerations**

Eric J. Miller, University of Toronto, Canada, presiding

*Sponsored by Committee on Passenger Travel Demand Forecasting and Committee on
Transportation and Land Development*

Analysis of Activity-Based Accessibility, (02-3760)

Xiaojing Dong, Northwestern University; Moshe E. Ben-Akiva and John L. Bowman,
Massachusetts Institute of Technology

**Incorporating Nonmotorized Mode and Neighborhood Accessibility in Integrated Land Use
and Transportation Model System, (02-3396)**

Paul Waddell, University of Washington; Firouzeh Nourzad, Urban Analytics

**Influence of Urban Form and Land Use on Mode Choice: Evidence from 1996 Bay Area
Travel Survey, (02-3323)**

Michael K. Reilly, University of California, Berkeley

**Uncertainty Propagation in Integrated Land Use-Transportation Modeling Framework:
Output Variation via UrbanSim, (02-2739)**

Anant Pradhan and Kara M. Kockelman, University of Texas, Austin

**Flexible Modeling Strategies for Assessment of Transportation Influence on Accessibility,
(02-2588)**

Sharada Vadali, Texas Transportation Institute