

## *CALL FOR PAPERS*

81<sup>st</sup> TRB ANNUAL MEETING  
JANUARY 13-17, 2002  
WASHINGTON, DC

(2002-02-1)

### **The Mixed Logit Model: Formulation, Estimation, and Application to Urban Activity-Travel Demand Modeling**

The [TRB Subcommittee on Emerging Methodological Developments in Urban Activity and Travel Analysis \(Subcommittee of the TRB Committee on Passenger Travel Demand Forecasting \(A1C02\)\)](#) is planning to organize one or more sessions on “The Mixed Logit Model: Formulation, Estimation, and Application to Urban Activity-Travel Demand Modeling”.

The mixed logit model represents a very flexible discrete choice formulation, and it is being increasingly used to accommodate unobserved taste variations across decision-making agents and general error variance-covariance matrix structures. Examples of the application of the mixed logit structure in the transportation field include urban and intercity travel mode choice analysis, recreational site choice, route choice modeling, and congestion pricing analysis.

Papers are invited on all aspects of mixed logit-based modeling, including (but not limited to) formulation and identification issues, pseudo-random and quasi-random simulation estimation methods, and empirical application to activity-travel demand forecasting and transportation policy analysis.

On Submission Review form, please indicate this call for papers (2002-02-1) is being submitted to the TRB Committee on Passenger Travel Demand Forecasting (A1C02). Also submit your paper abstract by e-mail to the session organizer (see below) with a note that you have submitted the paper to TRB.

Papers for the 2002 Annual Meeting may be submitted after May 1, 2001, **but no later than August 1, 2001**. Papers cannot be accepted after August 1, 2001 because of the time required for peer review and program development.

Updated paper submission information will be posted on the TRB website [www4.national-academies.org/trb/annual.nsf](http://www4.national-academies.org/trb/annual.nsf) later this Spring.

Questions regarding this call for papers may be directed to the session organizer:

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## ***CALL FOR PAPERS***

**81<sup>st</sup> TRB ANNUAL MEETING  
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**(2002-02-2)**

### **Spatial Analysis in Urban Activity and Travel Demand Modeling**

The **TRB Subcommittee on Emerging Methodological Developments in Urban Activity and Travel Analysis (Subcommittee of the TRB Committee on Passenger Travel Demand Forecasting (A1C02))** and the **Spatial Data and Information Sciences Committee (A5015)** are planning to organize one or more sessions on “Spatial Analysis in Urban Activity and Travel Demand Modeling”.

This call is being placed because of the rather limited attention to spatial analytic issues in the urban activity and travel analysis field. Travel modeling is intrinsically spatial, yet spatial considerations have not been adequately represented in demand analysis. While GIS platforms are increasingly being used by many metropolitan and state agencies for travel analysis, they are primarily used for data assembly and presentation of model results. The underlying analytic methods have remained, to a large extent, a-spatial. Addressing spatial issues in urban activity and travel modeling offers the unique opportunity to draw from varied fields such as geography, geographic information science, and travel modeling.

Papers may focus on any topics related to spatial analysis in the context of urban activity and travel analysis, including (but not limited to) the modifiable areal unit problem (MAUP), guidelines for the optimal number and spatial configuration for the zone structure used in analysis, spatial autocorrelation and heterogeneity, accommodating errors in spatial measurement, boundary effects, spatial sampling and exploratory analysis of large spatio-temporal data sets. Analytic methods to consider these spatial issues may include techniques such as geographic visualization (GVis), local spatial statistics, multi-level modeling, adaptive filtering, varying-coefficients models and geographic data mining.

On Submission Review form, please indicate this call for papers **(2002-02-2)** being submitted to the TRB Committee on Passenger Travel Demand Forecasting **(A1C02)**. Also submit your paper abstract by e-mail to the session organizers (see below) with a note that you have submitted the paper to TRB.

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## *CALL FOR PAPERS*

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(2002-02-3)

### **Integrated Transportation-Land Use Modeling: Frameworks, Methods, and Applications**

The **TRB Subcommittee on Integrated Transportation and Land Use Modeling (Subcommittee of the TRB Committees on Passenger Travel Demand Forecasting (A1C02) and Transportation and Land Development (A1D02))** is planning to organize one or more sessions on “Integrated Transportation-Land Use Modeling: Frameworks, Methods, and Applications”.

There is general agreement that an integrated approach to the modeling of transportation and land use systems is appropriate in the comprehensive analysis of transportation and land use policies. There are also legislative requirements in the United States to consider the connection between land use and transportation in urban planning. A range of alternative methods have been developed and applied both in the U.S. and elsewhere to recognize the interactions between the land use and transportation systems. However, several conceptual and technical issues remain to be addressed in the area of integrated transportation-land use model systems.

Papers are invited on any topics related to integrated transportation-land use modeling, including (but not limited to) descriptions of overall modeling systems, case study applications, policy analyses using integrated models, data requirements and modeling methods for integrated models, and discussion of a sub-component of an overall integrated modeling system (for example, demographic models, and housing demand and/or supply models).

On Submission Review form, please indicate this call for papers (2002-02-3) being submitted to the TRB Committee on Passenger Travel Demand Forecasting (A1C02). Also submit your paper abstract by e-mail to the session organizers (see below) with a note that you have submitted the paper to TRB.

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Questions regarding this call for papers may be directed to one of the session organizers:

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