

**Call for Papers**  
**85<sup>TH</sup> TRB ANNUAL MEETING**  
**JANUARY 22-26, 2006**  
**WASHINGTON, DC**

**Exploring Route Choice And Spatial Behavior**

The *TRB Route Choice and Spatial Behavior Subcommittee (ADB10(2))* of the **TRB Traveler Behavior and Values Committee (ADB10)** invites papers on a range of topics related to the understanding, modeling, and analysis of route choice, wayfinding, and spatial behavior in conjunction with the 85<sup>th</sup> Annual Meeting of the Transportation Research Board to be held January 22-26, 2006 in Washington, D.C. The committee anticipates collaborating with a number of committees such as the TRB Transportation Network Modeling Committee (ADB30) for developing joint sessions around the topic areas identified in this call for papers.

Papers that provide insights on route choice decisions by relating them to the spatio-temporal behavior of drivers are invited. The subcommittee invites papers from all disciplines that deal with modeling, understanding, analyzing, and measuring driver behavior to explain route choice and associated learning mechanisms as well as to generate traffic control strategies. It draws on, but is not limited to, disciplines such as traveler behavior, network modeling, traffic flow modeling, computational intelligence, econometrics, psychology, operations research, control theory, artificial intelligence, agent-based simulation, interactive simulation, statistical inference, game theory, advanced data collection techniques, user information systems, and advanced sensor systems. Several specific **topic areas** of interest include:

- 1. Integrating Behavioral Modeling and Network Flow Interactions for Deployment:** studies on analytical, simulation, or hybrid methods to integrate spatial behavior and network analysis to address system evolution, spatial learning, and associated phenomena under information provision
- 2. Data Collection Mechanisms:** studies related to data collection mechanisms and empirical data for route choice and spatial behavior modeling that highlight how the advanced technologies (such as global positioning systems) and/or novel methodologies aid spatial data-gathering, enhance model development, and/or provide insights on routing behaviors
- 3. Value of Information:** studies on the multiple dimensions of information and how they affect route choice and driver behavior; the various dimensions include the perceived value of information, the influence of multiple sources of information, and the type and extent of information provision
- 4. Experimental and/or Interactive Approaches:** studies dealing with experimental game approaches, interactive experiments, game simulations and intelligent agents to understand route choice mechanisms for the study of behavior dynamics and learning
- 5. Intermodal Route Choice and Spatio-Temporal Behavior:** studies on traveler route choice behavior when routes are intermodal leading to interactions between factors affecting mode choice combination and route choice, as well as the associated policy implications
- 6. Theories of Route Choice Behavior:** conceptual studies that propose theories of spatio-temporal behavior mechanisms to explain route choice decisions of drivers under

information provision, unifying/integrated theories to capture learning and information-related phenomena across multiple timescales, and theories to capture the effects of heterogeneity in driver behavior

7. **Freight Route Choice and Spatial Behavior:** studies that analyze how freight truck carriers and drivers make route choice decisions
8. **Route Choice under Emergency Evacuations:** studies related to the spatio-temporal behavior of drivers/travelers under natural and deliberate disasters; evacuations in response to potential natural calamities and theater terrorist threats
9. **Interaction of Route Choice with Activity Scheduling:** studies on how the scheduling of activities by travelers (such as drivers, intermodal travelers and pedestrians) influences route choice and vice versa, and mechanisms to capture these interactions

Please indicate **ADB10B** on the Submission Review form to indicate that the paper is being submitted in response to this call for papers. Papers for the 2006 Annual Meeting must be submitted electronically **no later than August 1, 2005**. **Papers cannot be accepted after August 1 because of the time required for peer review and program development.** Paper submission information is posted on the TRB Annual Meeting website <http://www.trb.org/meeting/>.

In addition, **authors who have submitted papers in response to this call for papers** are requested to send the paper number and title, via email, by **August 3** to the Chair of the TRB Route Choice and Spatial Behavior Subcommittee.

**Dr. Srinivas Peeta, Chair, ADB10(2)**

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