

Call for Papers
83RD TRB ANNUAL MEETING
JANUARY 11-15, 2004
WASHINGTON, DC

Dynamics and Models of Decision-Making in a Temporal Context

The **TRB Subcommittee on Emerging Methods, A1C02(1)** of the **TRB Committee on Passenger Travel Demand Forecasting, A1C02** and the **TRB Committee on Traveler Behavior and Values, A1C04** invite papers on “Dynamics and Models of Decision-Making in a Temporal Context.”

While the dynamic aspects and processes underlying activities have received increased attention, there remains a need for improved representation of temporal aspects and effects in decision-making. The focus of this call is on methods, models, and insights that shed light and enhance our understanding of the dynamic processes and constraints underlying observed activity and travel patterns. Appropriate topics include, but are not limited to:

- Investigation of the empirical relevance and potential value of dynamics in passenger/freight travel demand contexts and comparisons with treatment in other fields (e.g., marketing)
- Interaction, integration, and feedback between short-term and long-term decisions
- Methods/models that account for state dependence and path/history dependence
- Models of triggers/discontinuous jumps in or due to choice processes/outcomes
- Duration dependence (hazard based models) in choice processes and dimensions
- Properties of dynamic decision processes: dynamic stability, equilibrium versus disequilibrium and possible steady states
- Simulation/models of activity and travel decisions/choice processes (e.g. sequencing/search)
- Treatment of the initial condition problem (how to synthesize history)
- Treatment of time in models and simulation and implications for forecasts, TDM evaluation, e.g. temporal aggregation issues (the role of time step selection and its effect on simulation consistency and forecasts), and the role of discrete versus continuous time

Please indicate **A1C02C** on the Submission Review form to indicate that the paper is being submitted in response to this call for papers.

Papers for the 2004 Annual Meeting must be submitted electronically **no later than August 1, 2003**. Also e-mail your paper abstract by to the session organizer (see below) with a note that you have submitted the paper to TRB. Updated paper submission information is posted on the TRB website <http://www4.trb.org/trb/annual.nsf>. Further information about this call may be obtained from:

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Choice Set Construction

The **TRB Subcommittee on Emerging Methods, A1C02(1)** of the **TRB Committee on Passenger Travel Demand Forecasting, A1C02** invites papers on “Choice Set Construction.”

A fundamental component to all behavioral models is the set of alternatives faced by the decision maker. This call is aimed at papers providing methodological and substantive insights regarding the process of choice set generation and construction. Topics include, but are not limited to:

- Capturing the role of awareness and information search processes in spatial decision contexts (e.g. destination choice)
- The role of information, particularly, imperfect and spatially incomplete information
- Investigation into whether the choice process is a two-stage (construction/choice) or a single stage process (both outcomes take place in one stage)
- The role of learning, adaptation, partial information, and/or inertia
- Capturing learning from multiple sources including experiences of other individuals (neighbors etc.)
- Context-dependent choice set generation
- Models of latent choice sets
- Rule-based/computational process models to account for constraints in set formation.
- Computational issues with large-dimensional and correlated choice sets, for example with spatial alternatives
- Impact of errors in choice set specification
- How choice set construction has received attention in other fields, e.g., marketing

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