

Emme Conference
Portland OR
Sept 16, 2011

Travel Demand Modeling for Congestion Pricing Analysis: An Overview

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Abstract (August 18, 2011)

Predicting users' response to congestion pricing requires a model with distributed value of time, value of travel time reliability and time-of-travel preferences.

Three advanced discrete choice methods capture the distribution of the value of time among travellers: continuous logit mixture, latent class and hybrid with attitudinal indicators.

Recent research on modeling travelers' response to travel time variability includes model specifications based on prospect theory and rank dependent utility.

Time-of-travel changes depend on the tradeoff of travel time with schedule delay. Ben-Akiva and Abou-Zeid (2007) proposed a method to model schedule delay in a situation where such data are unavailable.