

George Mason University
School of Policy, Government, and International Affairs
Center for Transportation Public-Private Partnership Policy

Toll Price Elasticity of Travel Demand: A Meta Study of Current Evidence

Jeong Yun Kweun and Shanjiang Zhu
Last revised: August 1, 2014

ABSTRACT

Toll price elasticity of travel demand is a sensitivity measure fundamental in travel demand analysis. Demand models using aggregate data have been used most frequently to estimate the average toll price elasticity. With the development of aggregation methods using disaggregate data, the scope of literature on toll price elasticity has expanded over years. In this paper, a systematic review of the current state of research in toll price elasticity of demand, with more focus on methods used for aggregating results from disaggregate discrete choice models, is presented. Using toll elasticity estimates compiled from sample of studies, a meta-analysis is performed to understand factors explaining variation in estimates of toll elasticity from aggregate and disaggregate models.