

عنوان مقاله:

Modeling Crash Delays in a Route Choice Behavior Model for Two-Way Road Networks

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خلاصه مقاله:

Distributing demand in a transportation network is based on route choice behavior models. Generally, it is assumed that drivers use routes with minimum time. In real world, drivers may consider many factors other than travel times in congested networks especially in metropolitan or two way congested transportation networks. Travel safety is a factor that one may consider in his/her trip route choice. The main objective of this paper was to investigate influence of safety factors such as crash delays on drivers' route choice behaviors. Parameters that can cause to crash occurrences were specified and their impacts were modeled at macroscopic level using a simple statistical model. Then, an equilibrium based mathematical programming model for two way networks with symmetric link interactions was proposed. The model was tested for a simple network and results showed that how crash delays can impact on route choice behaviors.

کلمات کلیدی:

route choice, crash delay, two way networks

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