

عنوان مقاله:

An Investigation on Pedestrian Accident Severity in Urban Streets Using Path Analysis

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خلاصه مقاله:

Pedestrians are known as the most vulnerable road users because in most accident cases, they cause the serious or fatal injuries. Indeed, pedestrian injuries and fatalities in accidents constitute a world concern. On the other hand, approximately 50 percent of all traffic accident victims in developing countries are pedestrians. Also, the results of the researches in Iran show that 39 percent of all crash fatalities are pedestrians. According to the importance of this issue in Iran, this paper investigates the pedestrian accident severity for urban streets accidents in Rasht, Iran. Accidents data were obtained from the Rasht traffic police database in the period of March 2014 to March 2015. In order to estimate the effects of variables on pedestrian accidents, path analysis which have the ability of explaining the direct and indirect impacts of the independent variables on dependent variables, is applied. The effects of human factors (age and gender), environmental factors (weather conditions, lighting condition and way type), time variables (day of crash and time of crash) and vehicle factor (vehicle at-fault) on the pedestrian accidents severity were estimated. Results of the path analysis showed that the day of crash had a greatest direct impact on the pedestrian accident severity and time of the crash had greatest indirect effect on it. Also, the path analysis illustrated the insignificance of the surface conditions on the pedestrian accident severity.

کلمات کلیدی:

Pedestrian, Accident, Urban streets, Path analysis

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