عنوان مقاله:

(Developing a Model for Estimating Weaving and Non-Weaving Speed within Highways Weaving Segments (Tehran

محل انتشار:

نشریه بین المللی مهندسی حمل و نقل, دوره 4, شماره 2 (سال: 1395)

تعداد صفحات اصل مقاله: 12

نویسندگان:

Reza Ghavidel Abraghan - *Associate Professor, Department of Industrial Engineering, Iran University of Science and Technology*

Shahriar Afandizadeh Zargari - *MSc Student, Department of Industrial Engineering, Iran University of Science and Technology*

خلاصه مقاله:

In weaving section due to a strong need for lane changing, a type of turbulence is created in traffic flow; so, the speedand the capacity of the weaving section decreases. Therefore, investigation of the weaving section is very important.However, due to shortage of the manual for urban principal arterials (highways), calibration of these models is necessary.One of these models that are used to evaluate the level of service of the weaving sections is speed model whichwill be developed in this paper. Thus, data of the lane-changing rates and travel time (speed) have been collected in9 principal arterials of Tehran. Then, two models for estimating of weaving and non-weaving speed are developed.Validations also confirm the accuracy of the developed models. Exploration of these developed models reveals thatspeed decreases by increasing the weaving intensity. In addition, Comparison of the developed models .and HCM 2010for similar condition shows that the developed models estimate more than the HCM 2010 model

کلمات کلیدی:

Weaving speed, non-weaving speed, weaving section, urban principal arterials