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The Estimation Of Annual Average Daily Traffic (AADT) Using Traffic Volume-variation Factors And The Development Of Prediction Model For Motorcycle Accidents At Intersections

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Abstract

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The Estimation Of Annual Average Daily Traffic (AADT) Using Traffic Volume-variation Factors And The Development Of Prediction Model For Motorcycle Accidents At Intersections. The objective of the study is to obtain Annual Average Daily Traffic (AADT) that estimated using volume-variation factors of traffic. The factors (hourly, daily and monthly basis) were developed for the selected area; they are the state of Selangor and the federal territory of Kuala Lumpur, Malaysia. The study also aimed to develop prediction model for motorcycle accidents at intersection on urban roads in Malaysia. The explanatory variables included in the model were the estimated AADT and the shoulder width. The model were developed using Generalized Linear Modeling approach, and the quasi likelihood technique was incorporated to overcome the over-dispersion problem. The model reveals that an increase in AADT on major and minor roads is associated with an increase in motorcycle accidents, and the AADT on major road had the higher effect on the probability of motorcycle accidents than that of the AADT on minor road. Shoulder width was also found to be significant in explaining motorcycle accidents. The final model should allow traffic engineers to establish appropriate intersection treatment that specifically designed for providing motorcycle lane facilities at intersections.

Keywords: AADT Conversion Factors, Generalized Linear Models, Accident Model

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