

Analisis karakteristik dan perilaku penyeberangan orang pada fasilitas zebra cross dan pelican fixed time = Analysis of characteristics and behavior of pedestrian crossing on zebra cross and pelican fixed time facilities

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Abstrak

[Pejalan kaki dapat menyeberang jalan secara aman apabila disediakan fasilitas yang sesuai dengan kondisi lalu lintas. Tujuan dari penelitian ini adalah menganalisis karakteristik penyeberang jalan pada fasilitas zebra cross dan pelican fixed time. Karakteristik tersebut dapat dijadikan referensi dalam merancang fasilitas penyeberangan di masa mendatang.

Variabel-variabel pejalan kaki yang dianalisis diantaranya adalah kecepatan menyeberang, jenis kelamin dan tingkat kepatuhan. Karakteristik pengemudi dan kondisi fasilitas juga dianalisis untuk mendapatkan perbedaan yang mendetil antara penyeberangan zebra cross dan pelican fixed time.

Berdasarkan analisis, laki-laki menyeberang lebih cepat dibandingkan perempuan, kecepatan laki-laki adalah 1,286 m/detik dan 0,978 m/detik sedangkan kecepatan perempuan adalah 1,224 m/detik dan 0,905 m/detik. Kecepatan individu menyeberang lebih cepat dibandingkan platoon, kecepatan individu adalah 1,261 m/detik dan 0,934 m/detik sedangkan kecepatan platoon adalah 1,113 m/detik dan 0,849 m/detik. Perempuan cenderung lebih mematuhi peraturan dibandingkan laki-laki. Penyeberangan pelican fixed time lebih direkomendasikan untuk arus dan kecepatan lalu lintas lebih tinggi bila dibandingkan oleh penyeberangan zebra cross. Pedestrians can cross the road safely if the facilities need to be provided in accordance with traffic conditions. The purpose of this study was to analyze the characteristics of the pedestrian crossing on zebra cross and pelican fixed time facilities. These characteristics can be used as a reference in designing pedestrian facilities in the future.

The variables that been analyzed include pedestrian crossing speed, gender and obedience. Characteristics of the driver and condition of facilities were also analyzed to obtain detailed differences between zebra cross and pelican fixed time facilities.

Based on the analysis, the male to cross more quicker than women, the male speed is 1,286 m/sec and 0.978 m/sec while the female speed is 1.224 m/sec and 0.905 m/sec. Individual to cross more quicker than platoon, individual speed is 1,261 m/sec and 0.934 m/sec while the platoon speed is 1,113 m/sec and 0,849 m/sec. Women are more likely than male to obey the regulations. Pelican fixed time facilities is recommended for higher traffic flows and speeds than zebra cross., Pedestrians can cross the road safely if the facilities need to be provided in accordance with traffic conditions. The purpose of this study was to analyze the characteristics of the pedestrian crossing on zebra cross and pelican fixed time facilities. These characteristics can be used as a reference in designing pedestrian facilities in the future.

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