

高速公路大客車駕駛者對於速限可變標誌設置形式之偏好調查與分析

張建彥, 李家春

運輸科技與物流管理學系

管理學院

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摘要

The major purpose of variable speed limit signs (VSLS) deployment is to improve traffic safety and increase road capacity, preventing drivers from rear-end collision results from large speed deviation or maintaining the stability of traffic flow on road sections with limited speed. However, the shape, color, dimensions, configuration pattern, and deployment location of VSLS will directly or indirectly affect drivers' recognition to the VSLS systems and then influence their driving behavior. Since bus passenger occupancy is much higher than that of a small passenger car, a bus accident often causes high fatality and injury rate. Thus, this study designed a questionnaire to interview 100 bus drivers working for Taiwan freeway bus companies and analyzed their preference about the geometry type, configuration pattern, and deployment location of VSLS. Results showed that most bus drivers prefer the overhead VSLS with circle shape, yellow legend on black background, and regular flashing Light Emitting Diode (LED). Results of this study would be helpful in developing or editing VSLS related standards for bus driving on freeways.

關鍵字：Freeway, Bus, Variable Speed Limit Signs, Deployment Type, Preference.