

動態城際大眾運具運量競爭模式與分析

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摘要

Discrete choice model is the most used methodology for studying traveler' s mode choice and demand. However, to calibrate the discrete choice model needs to have plenty of questionnaire survey. In this study, an aggregative model is proposed. The historical data of passenger volumes for rail, high speed rail, domestic airline and freeway coach are employed to calibrate and validate the model. As the result, the short term prediction is better than the long term prediction because the model is developed under the close system assumption. During the study period, financial tsunami and the oil price oscillated largely occurred, which might change the social-economic environment and the travelling behavior. Therefore, the social-economic variables should be considered in the further studies.

關鍵字：forecasting, dynamic competition model, iteration method