

A Study for Passengers' Train Choice Model in Urban Railways

Noriko FUKASAWA Munenori SHIBATA

This study aims to develop a passenger's behavior model for train choice from among various types of train service such as local and rapid service in urban railways, in order to evaluate passengers' flow. This paper describes an online survey method of obtaining passenger activity data using the image of departure information display. A disaggregate demand model has been developed for train choice behavior based on the survey data which were collected using the method. The developed model is put into practice by means of an application named "Train-Choice Model Viewer" , which can calculate the time series data of passengers' volume in stations and trains. It makes it possible to simulate the congestion level of each train and station when the time schedule is inputted.