

Convenience Evaluation of Clock-face Local Railway Timetables

Takamasa SUZUKI Takuya WATANABE Daiki OKUDA Noriko FUKASAWA

This article aims to reveal convenience evaluation of clock-face (regular interval) timetable for local railways, which provides periodic train services, we conducted a questionnaire survey to collect data on the evaluation of timetables with varying number of trains or periodicity of train services. Using the collected data, a logistic regression model was constructed to quantify the magnitude of the effect of such characteristics on the convenience evaluation. The results obtained by the regression model revealed that both interval regularity and hour-by-hour cyclicality improve passengers' evaluation. This may lead to improving convenience of local railway lines where additions of train services may be impractical.