

An Approach for Real-time Estimation of Railway Traveler Flow

Yoichi SUGIYAMA Hiroshi MATSUBARA Shuichi MYOJO

Kazuki TAMURA Naoya OZAKI

If traveler flow information is comprehensible in real time, such information is applicable to railway traffic operations. In this report, forecast of the number of gate passage according to time zone was attempted by using past data from automatic ticket checking machines, then the number of passage by each origin station was estimated by using the number of gate passage. As attributes of daily passage data were apparent, two types of prediction approaches were applicable to stable data and irregular data. Consequently, applicable criteria of each approach have been understood. Moreover, accurate forecast of the number of OD passage was done by the developed forecasting model.