

An Analysis of Express Train Station's Catchment Area Relating to Intra-Regional Passenger Demand

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Passengers on express trains include daily intra-regional use, such as commuting, shopping, and so on. However, existing demand forecast methods cannot provide long-term forecast of such demand. This study attempts to develop a new demand forecast method based on the express train station's catchment areas. A field survey was conducted in order to analyze factors of transportation mode choice. The obtained data revealed that the difference of service levels of express trains and geographical characteristics affect the mode choice behavior, which may be utilized in demand forecast modeling.