

A Method for Visualizing Passenger Flow Data from a Passenger Distribution Estimation System in Railway Stations

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Monitoring passenger flow in real time within railway stations enables congestion points to be identified effectively, contributing to enhanced station safety management. We verified the estimation accuracy of a passenger distribution estimation system developed beforehand using real video footage recorded within railway stations. As a result, it was confirmed that the system can capture origin-destination (OD) traffic volume trends with a high degree of accuracy. Additionally, we visualized real-time passenger distributions to estimate the passenger flow and verified that the developed system can generally reproduce the actual dynamics of passenger flow in real time.