

# Mobile Container Transaction System for Subways

Can big data improve Shenzhen's subway passenger flow?

This article completes the analysis of Shenzhen's subway passenger flow through big data analysis. It is of great significance to solve urban congestion, optimize the traffic network, and protect public transportation.

What is a Cash Box & a central monitoring system?

Cash Box: Collect and store coins and notes deposited into the ticket vending machine. Station Processing Unit: Server for monitoring all automatic fare collection equipment within the station and logging all related transactions. Central Monitoring System: System for collecting and monitoring each station processing unit and uploaded data.

How is subway card data filtered?

DATA FIELDS OF SMART CARD SUBWAY CARD SWIPE After the data is cleaned, the subway card data is obtained by filtering, and the data is divided into days, the abnormal data is filtered, and some field completion and field formatting are performed.

How od connection algorithm is used to connect subway card data?

After the OD connection algorithm is used to connect the subway card data with the OD connection algorithm, it can calculate the dynamic indicators such as the spatial distribution of passengers, travel rules, and cross-section passenger flow. IV. EXPERIMENTS AND RESULTS

Streamlined payment processes Faster, hassle-free transactions consolidate all fare payments under a single system. Passengers can reload cards or apps conveniently, eliminating the ...

To achieve this requirement, the ceiling spaces of a building are used to construct an automatic multi-station multi-container (MSMC) transportation system. This system can transport ...

The performance requirements of the subway rail transit system are as follows. (1) Elementary Performance Indicator. System capacity should be able to meet the line access and ...

The technology of automatic fare collection system for urban rail transit is an important technology for achieving automatic fare collection for public transportation facilities such as urban ...

The subway's daily management and control are too complicated to be handled by using traditional methods. Based on the artificial systems, computational experiments, and parallel ...

B. Data cleaning and preprocessing As mentioned earlier, the functions of smart IC cards in many cities include not only swiping buses or taking subways, but also consumption at designated ...

Explore Tranzitup Technology's Automated Fare Collection (AFC) systems, offering seamless, secure, and efficient fare management for modern public transit.

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Every tap, scan, and mobile payment in transit relies on more than just software; it demands deep Automatic Fare Collection (AFC) domain expertise. At Datamatics, we build ...

AFCS Automatic Fare Collection System Record and collect transaction data from each station, monitor station equipment, manage revenues and cash, and perform big data analytics upon user demand.

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