



## 磁卡和非接触式IC卡并用自动检票闸机通行能力分析

### the Capacity Analysis Of the Magnetic Card and Contactless IC Card Automatic

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英文关键词: [automatic fare gate](#) [capacity](#) [IC card](#) [magnetic card](#) [railway station](#)

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#### 中文摘要

现行《地铁设计规范》并未给出磁卡与非接触式IC卡并用的自动检票机通过能力。本文观测分析了通勤时段上海市地铁车站乘客因素——携带包裹大小、刷卡方式、乘客群体。得出乘客使用磁卡和非接触式一卡通出闸时存在显著性差异。采用统计分析方法,带不同尺寸包裹、刷卡方式不同情况下过闸时间的间隔,提出了三杆式闸机实际运营过程中通行能力的计算方法和主要参数的标定值及应急预案的制定提供必要的依据。

#### 英文摘要

The process of passengers passing through three-roller gates in Shanghai during commute time is observed and a gate capacity—the size of the package, the way people use the card and the passenger group is studied. The result between public traffic card (IC card) and magnetic card. By using statistical analysis, the time interval of passeng determined, when the main type of commuting passenger with the different size of package and different card in railw of the three-roller gates capacity and the calibration of the main parameters is put forward, which provide the nece railway station three-roller gates, as well as the station's passenger operations and the development of emergency-r