

公交智能报站系统的设计

摘 要

随着城市化进程的加速，作为城市的基础设施之一，公共交通仍然是大多数游客的优先运输的选择方式。为人们提供了一个高效，方便，快捷的公共交通系统，特别是外国游客，商务旅行，医生诊断，就业活动等，让他们得到他们所需要的相关信息。我们这次设计的卫星定位（GPS）自动语音广播报站方案就是为了代替驾驶员人工操作，达到全自动的车站广播的要求。

本设计主要介绍了公交智能报站系统的设计。这个系统以卫星定位技术和语音广播组合的方式自动报告车站。控制系统以单片机为核心，实现了公交车的进入、出站、下一站的准确广播，实现了公交车站的智能化。

关键词：单片机；卫星定位；自动报站；语音播报

Abstract

When the process of urbanization accelerates public transport, as one of the urban infrastructure, is still the preferred mode of transport for the vast majority of travelers. In order to make people, especially those who need to know the local bus routes urgently for external travel, business trip, medical treatment, job search, etc., Provide customers with efficient, convenient and BRT system, so that they can get all kinds of relevant information they need, so as to reduce all kinds of unnecessary traffic flow and improve the operation efficiency of the bus, the bus automatic station reporting system came into being. The automatic speech broadcast system of GPS designed in this paper is to replace the driver's manual operation and realize the full-automatic station broadcast function.

In this design, we introduce the design based on GPS, which is mainly automatic parking system. The system adopts GPS satellite positioning technology and voice automatic parking system, Control system for core combination of microcontroller, realize the bus stops, the outbound, the next leg of the right to broadcast, to implement the intelligent of the bus stops working.

Keywords: Single chip;GPS; Automatic reporting station;Voice Announcements

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