Patent Search

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Abstract:

ADAPTIVE TRAFFIC-MANAGEMENT SYSTEM FOR SMART CITIES BASED ON MACHINE LEARNING AND IOT Adaptive traffic-management system for smart cities based or learning and IoT, wherein the system comprises, synchronizing the traffic signal light information and the vehicle local GPS timestamp according to the GPS timestam traffic signal light information comprises basic data processing method, application data cut-in method, event recognition method, immediate assessment method ar record method. The method for determining motor vehicle wrong way traveling in orientation lane by traffic monitoring apparatus, a module for determining traffic c defining traffic conditions in a road zone along an object based on sensor information; the traffic signal lamp information acquisition device is characterized by comp HMI module, a vehicle-mounted communication terminal, a background cloud server and a traffic signal lamp information platform.

Complete Specification

Description:ADAPTIVE TRAFFIC-MANAGEMENT SYSTEM FOR SMART CITIES BASED ON MACHINE LEARNING AND IOT

BACKGROUND

Technical Field

[0001] The embodiments herein generally relate to an adaptive traffic-management system for smart cities based on machine learning and IoT.

Description of the Related Art

[0002] The artificial information of gathering vehicle flowrate of the mode that video monitoring is installed.The advantage of this way is directly perceived, but th shortcoming is not only the installation and maintenance cost is high, and is difficult to realize exactly that digitizing manages automatically. Through active electror car plate (E-Plate), rice is gathered the method for information of vehicle flowrate.Because being a kind of single uninterrupted periodicity, the E-Plate electronic tag outwards to launch the active electronic label of self identity information.

[0003] The two main schemes are adopted for acquiring the traffic signal lamp in an intelligent traffic system, one scheme is that a camera is adopted for identify traffic signal lamp, and the principle is that a forward camera arranged on a vehicle is utilized for identifying the state change and the remaining time of the traffic s lamp through an image identification algorithm; the main disadvantages of this solution are: the distance is short, and the effective identification distance is usually 200 m; the identification precision is greatly influenced by the surrounding environment. Another scheme is to acquire the information of the traffic signal lamp thr wireless communication mode, the communication mode usually adopted is a V2X dedicated network, such as DSRC and LTE-V, the delay of the V2X dedicated netw

View Application Status