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VEHICLE LOCALIZATION AND VELOCITY ESTIMATION USING SMART PHONES

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Abstract

Android operating system is at the top in market because of its features like portability, platform independence, and low memory consumption.Our Application is designed for children and Parent to track the children while they are travelling through School or College Bus through Gps Technology. Now time has come for both the parents to work in such scenario the security of children is very important.This Application is mainly developed for toddler Our proposed Application is a multipurpose students safety application which will work on android platform.

Introduction

In recent years, smart devices have become ubiquitous. Many of these devices are equipped with global positioning system (GPS), Wi-Fi, and other sensors. With their high mobility, the idea of "mobile devices as probes" has been attracting more and more attention. Mobility and flexibility offered by smart mobile devices are what traditional fixed sensors lack. However, mobile devices' power supplies are quite limited. Although GPS is accurate, its high power consumption somewhat limits its accessibility and sustainability. In contrast, Wi-Fi is less power-hungry, but at the same time, less accurate. For the sake of sustainability, by adopting Wi-Fi as an alternative to GPS, longer operation is

attainable at the cost of losing some degree of accuracy. In this paper, a Wi-Fi-based algorithm based on log-normal probability distribution of distances with respect to received signal strength is proposed. It is suitable for an outdoor environment where Wi-Fi Access Points (APs) are abundant. Simulations are conducted over known AP locations, and results show that the proposed algorithm can save, on average, as much as 35% more battery power than GPS does; the average localization error is about 18 meters, and the average velocity estimation error is about 25%.

Related Works

Title : Bluetooth Aided Mobile Phone Localization: A Nonlinear Neural Circuit Approach

Author :SHUAI LI, YUESHENG LOU and BO LIU

Year : February 2014

Title : Neural network based mobile phone localization using Bluetooth connectivity

Author :Shuai Li , Bo Liu and Baogang Chen

Year : April 2012

Title :Mobile Phones as Traffic Probes: Practices, Prospects and Issues

Author : Geoff Rose

Year : September 2013

Title : A dynamic neural network approach for solving nonlinear inequalities defined on a graph and its application to distributed, routing-free, range-free localization of WSNs

Author :Shuai Li ,FengQin

Year : July 30, 2013

Proposed System

In this paper, our proposed Application is designed for Parent to track the children(School and colleges) while they are travelling through School or College Bus through Gps Technology

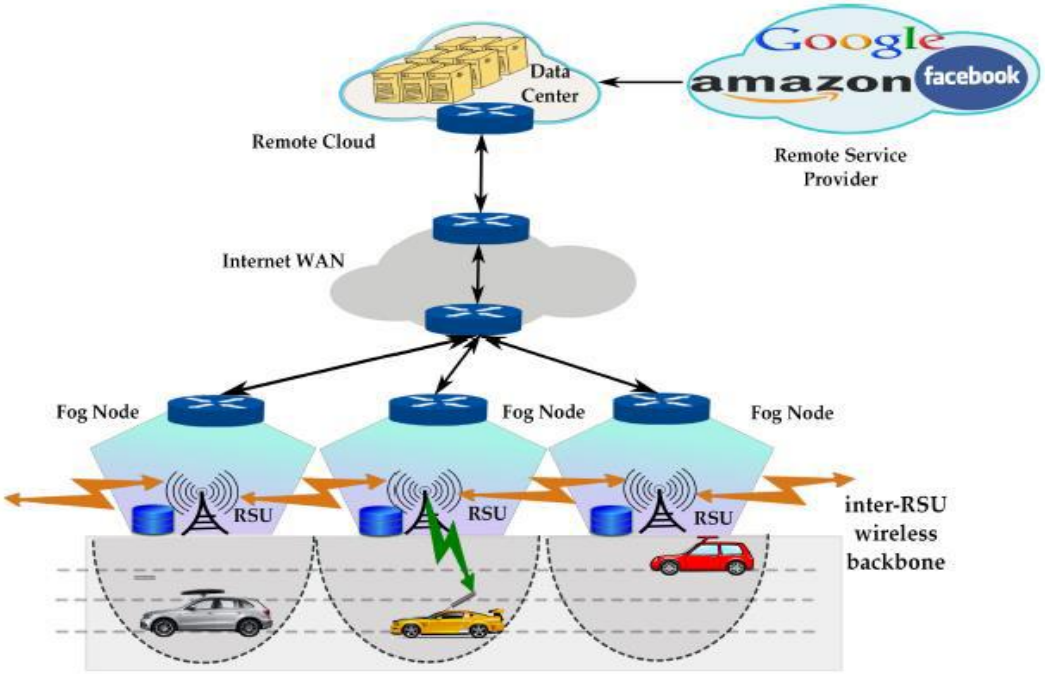
Path Search algorithm.

Definition:

In parent node,it should receive the updated location and find the distance among source and destination

Getting the location of bus and update to the cloud. on every 20 seconds the same process is called.

Overall Architecture



Conclusion

Nowadays, smart devices are almost ubiquitous. Their capabilities offer new opportunities for data collection. The idea of "mobile devices as probes" has begun to gain much attention. Mobility and flexibility offered by smart mobile devices are what traditional stationary sensors lack. Power supply is a major concern for most mobile devices. GPS is one of the on-board hardware that is quite power-hungry. Therefore, this paper proposes a new localization algorithm which consumes less battery power while the localization accuracy remains acceptable. Using the proposed algorithm, it can save as much as 35% more battery power than GPS, localization error is about 18 meters, and velocity estimation error is about 25%. While battery lifetime improves by adopting Wi-Fi-based localization schemes, localization accuracy decreases. This is a major tradeoff between accuracy and sustainability faced by many. In this paper, the purpose is to provide approximated real-time traffic information to operators, thus the more data collected, the better.

Sustainability is of greater value than accuracy.

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