Integration of GPS and Cellular Technologies for Development of Smart Public Transport Network

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Abstract

The rate of traffic problems and accidents has increased rapidly in the past few years. With the growth in population, the number of vehicles on the road have also increased significantly which in turn contributes to the increasing complexity associated with the traffic management especially in the Public Transport Network. Intelligent Transportation System (ITS) provides solution to most of these problems by integrating existing technologies with the underlying infrastructure. With the advent of GPS and the ubiquitous cellular network like VANET and DSRC, real time vehicle tracking for better public transport management has become possible. Precious time is wasted in long waits at the bus terminus, unaware about when exactly the bus will arrive. This confusion can be obviated by Smart Public Transportation System. Here a methodology based on combination of GPS and GSM/GPRS modem is discussed to help the people who avail the public transportation as their means of travelling. With the details provided by this system, the commuter can plan their journey in advance, hence making public transit a desirable option.
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Index Terms

Computer Science Networks

Keywords

GSM, GPS, Server, ITS, DSRC