Abstract

The Intelligent Speed Adaptation in vehicles using GPS technology is a method of speed adaptation in vehicles based on its position on the highway. The position can be recognized using the GPS receiver. The main objective is to make the system simple. The Toll gates on the highway are equipped with a transmitter that transmits a very small data to the receiver system in the vehicle. The received data carries a table of information with the latitude-longitude and its speed limit. As soon as the system receives the signal, the system starts operating; the system checks the latitude longitude data with the current position. When the system reaches the position, the controller informs the driver about the speed limit and also limits the speed of vehicle to the speed limit levels. Simultaneously the second data is taken from the received data and checks for next position and so on, till the last data. After the given data is executed, the next toll gate will be approaching for the speed limit patterns till the next tollgate. This system
Dynamic Data update for Intelligent Speed Adaptation (ISA) System

reduces usage of memory that is used for storing large map information, also reduces the cost of implementation in vehicles.

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Index Terms

Computer Science  Embedded Systems

Key words

ZigBee  Dynamic Data  Speed Adaptation