Abstract

Global Positioning System (GPS) is a space-based navigation system that provides location and time information globally on an unobstructed line of sight on Earth under all weather conditions with four or more satellites. It is a satellite network that sends information which is encoded regularly. The location of the person using GPS system can be found precisely by measuring the distance between the person and satellites. The Emergency Position Reporting System (EPRS) was developed in order to reduce the problems people experience when they call the emergency numbers by using GPS technology in mobile phones. Today, tens of thousands of unsubstantiated or false calls are received by existing emergency call systems. These unsubstantiated or false calls result in busy phone lines and lead to long waiting times to reach the emergency phone numbers. In these systems, there are also major problems such as occurrence of death due to the failure to describe the address correctly and losing time while describing the address. EPRS will be used in order to eliminate these major problems and overcome the problems such as having difficulties to locate the address of the incident.
The Emergency Position Reporting System and a Sample Application

References


Index Terms

Computer Science Wireless

Keywords

GPS, Emergency Location Reporting System, Location, The Route Calculated