Abstract

In this paper we have designed and proposed a Smart Life Tracking and Rescuing (SLTR) disaster management system based on Global Positioning System (GPS) and Global Service for Mobile Communication (GSM) web services. The proposed system is exclusively designed to handle the consequences caused by disaster such as tsunami, flood, earthquake, cyclone etc. The need of such an effective SLTR is important, where the population density is high and the place in which people live in danger situations. The proposed SLTR is intended to provide timely help to the affected victims and tardy response of relief works. To the general public, the system provides the information of getting the medical aid and relief materials to the deceased victim. SLTR incorporates with GPS and GSM web services to identify the affected areas and possible routes to reach the location. The system consists of two important services, rescue and shelter facility. In addition to these services, the proposed SLTR also provides a web site for real time information about the disaster. At present, the proposed SLTR is in its prototype
stage. From the experiments it found that, the result obtained is encouraging and the performance of the system can be subsequently improved to a fully fledged system in future.

References

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Index Terms

Computer Science
Automation
Keywords

Automobile Pilot System  Disaster  Shortest Distance Algorithm  Heart Beat Sensor  Global Positioning System