Abstract

We design how to use networks with smart phones for providing communications in disaster recovery. By lessening the communication gap among different kinds of wireless networks, we have designed and implemented a system, which provides Android phones the capabilities on communications in disaster helper. Application consists of two components: a messaging system between rescue worker and the victim and a self-rescue system. The messaging system between rescue worker and victim integrates cellular networking enables proper communication. The self-rescue system finds different communication network ways for trapped survivors. Such a group of Android phones can cooperatively get a notification and send out emergency messages in an energy-efficient manner with their location and position information so as to help rescue operations. We have implemented application as a prototype application on the Android platform and deployed it on all types of smartphones. We are creating application with a centralized server for communication. First for the admin who will monitor victim and rescue worker and other two for rescue worker and disaster victim.
References


Index Terms

Computer Science

Information Systems

Keywords

Smartphones, Routing, Disaster Recovery, Wi-Fi, Bluetooth