

Hurricane and Disasters Bracelets

Patent Pending

summary... This prototype for a **large-scale location and notification system** consists of a cost-effective, easily-deployable distributed network of RFID readers. The system is driven by customized software and a secure centralized database and is used to **track evacuees during a national disaster**.

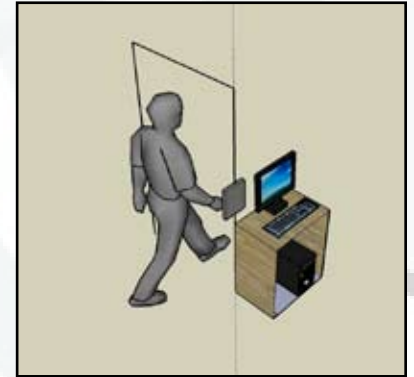
description... The system uses **RFID-embedded bracelets** that have been registered in a national secure database and involves automatic tracking and data logging, rapid information retrieval, an effective notification method, and a centralized, secure data storage center that is accessible worldwide.

market significance... The system provides a simple and effective way for related individuals wearing the RFID bracelets to find one another during and immediately following a hurricane



Refugees in Astrodome by Houstonian via flickr. Photo by David Balzen. Public Photo.

or other **disaster emergency evacuation**. The bracelets can also be used to retrieve family contact information if a young child is found separated from his/her parents, or to retrieve an unresponsive patient's medical information at a hospital. Additionally, the system will reduce the number of persons reported missing; reduce the time it takes to locate missing persons and reunite families; assist in the coordination of emergency evacuations and aid distribution; help medical staff and first responders give proper aid; and better prepare whole communities to respond to emergency disaster evacuations.



Depiction of the portable RFID scanning station.

stage... A prototype system has been fully developed and tested.

Seeking partner(s) for full scale implementation and deployment.

keywords... disaster, hurricane, evacuation, emergency preparedness, emergency response, location system, notification system, track evacuees, national response plan



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