

## **EMERGENCY NAVIGATION IN HAZARDOUS ENVIRONMENT USING WIRELESS SENSOR NETWORK**

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Wireless Sensor Network (WSN) is the most common service employed in many commercial applications. Its applications include data collection, data processing and storage, discovery of neighbour node, target tracking, monitoring and control. Yet another interesting application is its use in emergency navigation service. In this paper, we propose a system that makes use of WSN to help people inside a building to escape from hazardous regions safely and quickly at the time of emergencies. The sensor network infrastructure is used for guiding navigation of users. The people get connected to the network through their mobile phones that can interact with sensors. Once the sensors sense the danger at their location, the users are informed about it and map based navigation guidance is given for the trapped users inside the building. The path suggested is also the shortest and safest path.

