

# Abstract

*The combination of wireless sensor networks (WSN) and multi agent systems (MAS) open a new paradigm for their use in natural disaster management applications. It is important to have a multi-agent based environment to process the datasets received from sensors to prepare a backup rescue plan. Our proposed framework describe a complete cloud-based system that collects data from wireless sensors nodes deployed in disaster prone areas and then sends data to cloud to make response plans by agents. The basic purpose of the proposed solution is to optimize the usage of available resources by responding quickly without any human delay in case of a disaster. Previously, agents have been used alongwith robotics to provide rescue operations in diasater prone and affected areas but the usage of cloud and agents is a noval approach.*