1. AU2020103199 - DISASTER MANAGEMENT FRAMEWORK DESIGN USING AND IOT CONNECTIVITY PROTOCOL AND CLOUD

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Title
(EN) Disaster Management Framework Design using And IoT Connectivity Protocol and Cloud

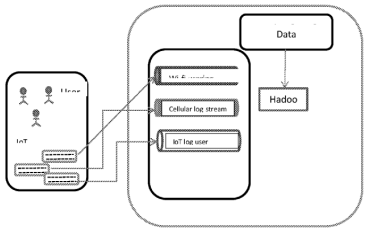

Figure 1 Environmental setup of a disaster framework for IoT based crowd sensing

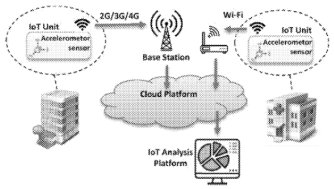

Figure 2 The proposed framework architecture based on IoT technologies

Abstract
(EN) [013] In the modern days of unstable world, every human strives to safeguard life and money. Every individual tries to settle the life of dear ones. Disaster may hit hard the lives of poor and vulnerable communities like ethnic groups. The poor are unable to afford to the modern life saving equipment. The government proposes to build city smart through techno-innovative initiatives. Such initiatives can include building collapse identification and rescue guidelines. The city includes huge mass accommodating a limited area to enable easy communication and transport. Such place has huge resident density and poor management of building services, where a very mild structural defect may cause a great fall to the building and nearby structures costing human lives and material damage. This can be prevented using modern techniques with installed sensors, Wi-Fi to enclose the network connectivity, centralized disaster rescue team with automated decision making fuzzy logic. This can be further connected through map oriented input and output using google map which is paired with ESRI-API to enable location spotting on pre and post disaster. The mobile network connectivity used to analyze the resident density and then the rescue team gets empowered and task allocated as per rescue necessity. Figure 1 Environmental setup of a disaster framework for IoT based crowd sensing Figure 2 The proposed framework architecture based on IoT technologies