

Collaborative Early Warning System: An Integrated Framework for Mitigating Impacts of Natural Hazards in the UAE

Authors : Abdulla Al Hmoudi

Abstract : The impacts and costs of natural disasters on people, properties and the environment is often severe when they occur on a large scale or when not prepared for. Factors such as impacts of climate change, urban growth, poor planning to mention a few, have continued to significantly increase the frequencies and aggravate the impacts of natural hazards across the world; the United Arab Emirates (UAE) inclusive. The lack of deployment of an early warning system, low risk and hazard knowledge and impact of natural hazard experienced in some communities in the UAE have emphasised the need for more effective early warning systems. This paper focuses on the collaborative approach taken to instituting and implementing an early warning system. Using mixed methods 888 people completed the questionnaire and eight people were interviewed in Abu Dhabi. The results indicate that the collaborative approach to early warning system in UAE is needed, but lacks essential principles of the early warning system and currently underutilised. It is recommended that the collaborative early warning system is applied at every stage of the early warning system with the specific responsibility of each stakeholder and actor.

Keywords : community, early warning system, emergency management, UAE

Conference Title : ICMCSWA 2019 : International Conference on Mobile Communication Systems and Wireless Access

Conference Location : Dubai, United Arab Emirates

Conference Dates : November 07-08, 2019