



# Proposed Model of GIS-based Cloud Computing Architecture for Emergency System

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## Abstract

Recent emergency situations in the world display the inclination that the occurrence frequency of natural catastrophes is anticipated to increase in future. Thus new approaches for crisis administration need to be elaborated based on the newest IT expansion. Cloud computing is advised as possible way to smaller the cost and complexity of computing by supplying applications that run on the Internet. This paper discus proposed GIS-model based Cloud computing for emergency management. GIS application has been implemented for earthquakes prediction and earthquakes emergency management based Cloud computing platform (Microsoft Windows Azure). Performance of GIS application has been measured in different platform one of them based on Cloud technology and the other local host.

**Keywords:** Cloud Computing; Emergency Management; GIS; Windows Azure

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Full Text: [www.ijcsma.com/publications/october2013/V1I407.pdf](http://www.ijcsma.com/publications/october2013/V1I407.pdf)