

## **Role of emerging technologies in disaster management**

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### **Abstract**

Disaster Management is a holistic approach to develop broad based policies, processes and procedures, which can improve the preparedness and mitigation capacity of the communities in case of any unfavorable event. Pakistan, due to its geo-political location has been exposed to many manmade and natural disasters. In a period of only five years (2005-10), Pakistan has experienced the worst earthquake and torrential floods. The emerging technologies like remote sensing, GIS, mobile and cellular technologies on the other hand, has been effectively mitigated the impact of such disasters through better planning and more informed decision making. In this paper the application of various technologies for disaster preparedness and mitigation has been discussed. A case study of vulnerability assessment of built environment with the help of satellite imagery and remote sensing has also been given. It is expected that with more application of emerging and latest ICT and Satellite based technologies, the disaster preparedness and mitigation can also be improved at Pakistan.