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(57) Abstract :

The present disclosure introduces a earthquake detection system 100 revolutionizes disaster preparedness and public safety by leveraging a sophisticated network of components. It comprises of seismic sensors 102 strategically placed to detect ground motion accurately. These sensors 102 interface seamlessly with Sensor Interface Module 104, which conditions and amplifies signals for optimal performance. Microcontroller 106 processes the data, implementing advanced algorithms for real-time earthquake detection and analysis. Communication module 108 transmits the processed data to a central server 114, where it is further analysed and early warning alerts are generated. power supply 110 and regulator 112 ensure continuous operation and stable voltage levels, respectively. Buzzer 116 and screen 118 activate to alert individuals and communities, enhancing public awareness and facilitating prompt response measures. Reference Fig 1

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