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(57) Abstract :

The invention discloses a computer-aided system for real-time earthquake prediction integrating seismic sensors (101), IoT micro-sensors (102), satellite input module (103), AI prediction engine (104), cloud-based storage (105), and communication interface (106). The system employs AI-driven data fusion of seismic and geophysical inputs to predict earthquakes accurately. Predictive alerts are disseminated through multiple channels, enabling timely disaster preparedness. Experimental validation confirms system reliability, scalability, and low-latency alert dissemination, making it a transformative solution for seismic risk management and public safety.

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