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(57) Abstract :

The present invention discloses an AI-enabled model for real-time prediction of earthquakes that integrates a seismic sensor network (101), IoT data aggregator (102), edge computing unit (103), cloud-based AI prediction engine (104), anomaly detection unit (105), alert dissemination module (106), and user interface system (107). By leveraging deep learning techniques and distributed computing, the invention predicts seismic events with high accuracy and minimal latency. Real-time alerts provide communities and industries with crucial lead times to implement safety measures, reducing risks to life, property, and infrastructure.

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