GeoHazards

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Recent Applications of Seismic Hazard Assessment

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Message from the Guest Editor

The forecast of accelerations expected at a site during a future timespan of the order of tens of years plays a basic role in the definition of effective strategies for seismic risk reduction. In the last 20–30 years, the use of probabilistic concepts has allowed for uncertainties in the size, location and occurrence rate of earthquakes and in the variation in ground motion characteristics, to be explicitly considered in the evaluation of seismic hazards. Probabilistic Seismic Hazard Assessment (PSHA) provides a framework in which these uncertainties can be quantified and combined, offering a rational context for risk management by considering the exceedance probability of the ground motion against which a structure is designed. This allows the incorporation of PSHA into seismic risk estimates and the quantitative comparison of different options in making decisions. Seismic hazard models continue to be a topic of great importance within the scientific and stakeholder's community...

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