

## Special Issue on **Advances in Seismic Resilience of Buildings**

# CALL FOR PAPERS

Many structures designed according to modern seismic codes have not exhibited adequate structural performance during recent strong earthquakes such as the 1985 Michoacan, the 1994 Northridge, the 1995 Kobe, the 2008 LAquila, the 2011/2012 Christchurch, and the Puebla-Morelos 2017 earthquakes. Mitigating the structural damage of infrastructure under such seismic motions remains a great challenge. For instance, the need to account for ground motion duration, near fault, soil structure interaction, and aftershock effects, the proposal of efficient intensity measures and ground motion record selection approaches, or the improvement of the retrofit techniques using fiber or energy dissipation devices could be crucial for a better estimation of the seismic hazard, seismic risk, and structural reliability, or in general toward earthquake-resilient infrastructures or cities.

This special issue is focused on recent advances toward seismic resilience of buildings. We welcome articles that focus on new earthquake monitoring approaches, intensity measures, and ground motion prediction equations aimed at reducing seismic hazard or risk for having resilient structures, new performance-based design methodologies of buildings (including steel, reinforced concrete, masonry, base-isolated, braced, posttensioned, and other types of structural systems), or in general the estimation of the seismic demands of buildings in terms of different engineering demand parameters such as maximum ductility, inter-story drift, hysteretic energy, peak floor acceleration, and structural damage. In particular, the proposal of new structural systems toward earthquake-resilient buildings are the base for this special issue. Note that review articles which describe the current state-of-the-art are also welcome.

Potential topics include but are not limited to the following:

- ▶ Performance-based design
- ▶ Seismic demands of buildings
- ▶ Seismic hazard and risk analysis
- ▶ New structural systems

Authors can submit their manuscripts through the Manuscript Tracking System at <https://mts.hindawi.com/submit/journals/ace/aees/>.

Papers are published upon acceptance, regardless of the Special Issue publication date.

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### **Publication Date**

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