

Special Issue

Seismic Performance Assessment and Retrofit Strategies for Sustainable Structures

Message from the Guest Editor

Earthquake risk poses a challenge to sustainable regional development on a global scale. Recent earthquake damage underscores the pressing need to implement effective seismic risk management strategies. Such strategies should encompass both existing and newly constructed structures, including building inventories and urban transportation networks. This Sustainability Special Issue seeks submissions on contemporary seismic assessment approaches and retrofit strategies of structural systems that promote sustainability. This includes alternative approaches aimed at reducing structural and non-structural damage and residual deformations following earthquakes. Research areas may include, but are not limited to, the following:

- Vulnerability assessment and risk mitigation of structures;
- Seismic retrofit strategies of structural systems;
- Computational and experimental research to reduce the damage under extreme seismic events;
- Applications of smart materials and systems in seismic design and retrofit;
- Insights gained from recent earthquakes;
- Seismic resilience of the built environment;
- Seismic isolation and vibration control.

Guest Editor

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Message from the Editor-in-Chief

I encourage you to contribute a research or comprehensive review article for consideration for publication in Sustainability, an international open access journal which provides an advanced forum for research findings in areas related to sustainability and sustainable development. The journal publishes original research articles, reviews, conference proceedings (peer reviewed full articles) and communications. I am confident you will find the journal contributes to enhancing understanding of sustainability and fostering initiatives and applications of sustainability-based measures and activities.

Editor-in-Chief

Prof. Dr. Steve W. Lyon

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