

## Special Issue

# Sustainable Civil Engineering: Seismic Performance Analysis of Structures

### Message from the Guest Editors

Earthquake can cause unprecedented disruption, recently displaying a trend of rapidly increasing damage and casualties, for two major factors: (1) urban development in seismic zones; (2) the vulnerability of older and built structures, including poorly constructed non-ductile concrete structures. Estimating and evaluating the seismic vulnerability of structures is critical for informed decision-making. This Special Issue welcomes theoretical, numerical, and experimental developments as well as case studies on (but not limited to):

- Probabilistic seismic demand analysis of structures (bridges, buildings, dams, soil nailed walls, etc.);
- Performance-based design using seismic protection devices;
- Comprehensive and unified approaches for the PBSO of structures;
- Post-earthquake (after-shock) performance of structures;
- Risk-targeted and resilience-based seismic design of structures;
- Multi-hazard performance-based design of structures ;
- Seismic performance of isolated structures, bridges, etc.;
- Near-fault and far-fault ground motions;
- Nonlinear vibration and numerical simulation of structures.

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### Guest Editors

Dr. Mahmoud Bayat

Dr. Hamid Reza Ahmadi

Dr. Saman Soleimani Kutanaei

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### Deadline for manuscript submissions

closed (26 March 2023)



## Sustainability

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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.

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## Editor-in-Chief

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