

Special Issue

Sustainable Assessment and Modelling in Seismic Risk Mitigation

Message from the Guest Editors

Almost a couple of decades have passed since the seismic design and retrofit paradigm undertook a major shift from prescriptive procedures to quantified “performance-based” objectives. To this effect, modern performance-based seismic design and retrofit strives to satisfy quantified performance objectives. The sustainability principles can be considered even more explicitly by quantifying utility as a function of both socioeconomic and environmental “costs” associated to design, retrofit, and repair/maintenance planning decisions.

This Special Issue welcomes contributions towards filling the complex mosaic of sustainable design and retrofit decision-making and repair/maintenance planning for infrastructure in seismically active regions:

- Performance-based seismic design and retrofit
- Estimation of down-time and residual lifetime
- Multi-risk analysis methods
- Time-dependent seismic risk assessment for deteriorating systems (considering aftershocks, and/or ageing)
- Retrofit, repair/maintenance decision-making based on sustainable criteria

Guest Editors

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Deadline for manuscript submissions

closed (10 September 2023)



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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

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