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. *Sustainability* publishes original research articles, review 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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