

Special Issue

Seismic Vulnerability and Sustainable Building Materials for Risk Reduction Strategies in Urban Areas

Message from the Guest Editors

Special Issue aims to encourage the dissemination of ideas and knowledge concerning the assessment and reduction of the seismic vulnerability of existing buildings, favoring interdisciplinary approaches between sustainable architectural and engineering issues. Following topics are welcome: Seismic vulnerability: evolution; conceptual understanding, historical analysis, and future multidisciplinary perspectives; failure detection and diagnosis systems; inventories and intelligent digitized structures. Vulnerability assessment methods and tools: empirical approaches; mechanical analytical methods; advanced numerical simulation; large-scale evaluation methods; analysis of systemic fragility; GIS approaches. Seismic consolidation and retrofit techniques, sustainable materials, architectural-functional conservation: traditional and innovative strategies; building materials; sustainable buildings; cost-benefit analysis; experimental tests; development and validation; analytical and numerical simulation; application cases; post-earthquake surveys; conservation, protection, and prevention; architectural and functional redevelopment; life-cycle assessment.

Guest Editors

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Deadline for manuscript submissions

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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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