



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

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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.





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Message from the Editor-in-Chief

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