



Disaster Analysis of Buildings and Infrastructure for Sustainable Interventions

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Message from the Guest Editor

Dear Colleagues,

Climate change, social implications and economic viability, as well as cross-sectoral building and energy relationships in buildings, heritage assets and cities, are part of the challenges facing the construction sector in the coming years, especially as economic losses attributable to natural hazards rise steadily. Relevant topics include, but are not limited to, the following areas:

- Life cycle-oriented building and infrastructure analysis, retrofit, and rehabilitation;
- Sustainable retrofitting solutions for buildings and infrastructures;
- Multi-disaster effect and vulnerability models;
- Disaster resilient built environment;
- Efficiency of low-impact interventions for heritage assets;
- Comparison of the effects of traditional and innovative strengthening systems;
- Energy saving in sustainable buildings and infrastructures;
- Experimental investigation and modelling of existing structures and their retrofitting solutions;
- Analytical and computational strategies for strengthening heritage buildings and bridges;
- Probabilistic, statistical, and machine learning-based methods;
- Structural vibration control technology and applications;
- Case.





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