Special Issue

Towards the Assessment of Earthquake-Induced Damage for Buildings at Single and Regional Scale

Message from the Guest Editors

The endeavours of the scientific community to develop more and increasingly accurate methodologies to assess earthquake-induced damage to building structures, as well as industrial and logistic facilities, have led to non-negligible impacts and results in recent decades. However, there is an ever-increasing demand for research investigating new aspects or revisiting issues still pending or open. The entity or extent of damage that a system experiences, or is expected to experience, is a fundamental metric adopted both in experimental studies concerned with seismic performance assessment-related issues, and in analytical investigations involving, for instance, seismic risk analysis frameworks. In the seismic risk context. entities of damage are indexed, parametrised, simulated and predicted with sophisticated methodologies for computing seismic hazards, and structural responses are adopted and integrated accordingly. This Special Issue seeks submissions regarding recent advances in earthquake engineering research and applications for damage estimation on building structures.

Guest Editors

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Deadline for manuscript submissions

closed (31 May 2023)



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About the Journal

Message from the Editor-in-Chief

Current urban environments are home to multi-modal transit systems, extensive energy grids, a building stock, and integrated services. Sprawling neighborhoods are composed of buildings that accommodate living and working quarters. However, it is expected that the cities and communities of the future will face complex and enormous challenges, including maintenance, interconnectivity, resilience, energy efficiency, and sustainability issues, to name but a few. A smart city uses advanced technologies and a digital infrastructure to improve the outcomes in every aspect of a city's operations. A smart building optimizes the experience of occupants, staff, and management by using a modern and connected environment. Innovations in technology that can bring dramatic improvements to design, planning, and policy are critical in developing the cities and buildings of the future.

Editor-in-Chief

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