Special Issue

Seismic Assessment of Unreinforced Masonry Buildings

Message from the Guest Editors

Recent earthquakes have highlighted the vulnerability of unreinforced masonry (URM) buildings, which constitute a significant portion of our cultural heritage constructions. The seismic assessment of URM structures has proven challenging, as they may employ both in-plane and out-of-plane mechanisms. To address this critical issue, various modelling approaches have been developed over the recent decades to assess their seismic response, predict the potential collapse mechanisms, and design noninvasive and effective strengthening interventions. This Special Issue of *Buildings* aims to gather diverse studies exploring the methodologies and tools for evaluating the seismic response of existing masonry buildings. We welcome contributions covering different computational modelling techniques, analysis approaches, experimental investigations, and case studies focusing on the seismic assessment of both ordinary and monumental URM structures. The submissions may also address restoration activities and traditional or more innovative rehabilitation and strengthening techniques.

Guest Editors

Dr. Omar AlShawa

Dr. Stefania Degli Abbati

Dr. Giacomo Destro Bisol

Deadline for manuscript submissions

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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

Prof. Dr. David Arditi

Construction Engineering and Management Program, Department of Civil, Architectural, and Environmental Engineering, Illinois Institute of Technology, 3201 South Dearborn Street, Chicago, IL 60616, USA

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