

## Recent Scientific Developments on the Mechanics of Masonry Structures

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Deadline for manuscript  
submissions:

**20 July 2024**

### Message from the Guest Editor

Dear Colleagues,

Unreinforced masonry constitutes one of the most common structural typologies in Western and Eastern architecture. Masonry is also significantly widespread among ancient infrastructures.

This Special Issue welcomes contributions, including, but not limited to, the following topics:

- Analytical and computational strategies for the assessment of the most common masonry structural systems such as walls, arches, vaults, and bridges.
- Numerical approaches for the analysis of masonry buildings undergoing earthquakes and other dynamical loadings.
- Standard and non-standard limit analysis of masonry structures.
- Rigid block models for masonry structures.
- Analytical and computational strategies for the repair and retrofitting of masonry structures.
- Soil–structure interaction for masonry structures.
- Dynamic or static, as well as in situ or laboratory, testing of masonry structures.
- Full-scale tests on structures.
- Fragility assessment of masonry structures.
- Vulnerability assessments of the masonry-built environment at the regional scale.



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Dr. Andrea Chiozzi

# Special Issue

## Editor-in-Chief

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## 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. Innovation and technology can bring dramatic improvements to design, planning, and policy use, critical in developing the cities and buildings of the future.

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