

Special Issue

Structural Assessment and Strengthening of Masonry Structures

Message from the Guest Editors

In recent years, masonry has adopted environmentally friendly materials and techniques, with advanced research in robotics and automatic assembly, 3D printing and digital design revealing new horizons in masonry innovation. We are pleased to invite you to contribute to this Special Issue, Structural Assessment and Strengthening of Masonry Structures, which will focus on the following subjects:

- Experimental studies on load-bearing masonry structures and the assessment of their strength and stability;
- Calculation methods for masonry buildings and bridges;
- The design and seismic assessment of masonry structures;
- Advanced techniques in building masonry structures;
- Experimental and analytical research on masonry-strengthening techniques;
- Experimental studies regarding the effect of climate change on historical masonry;
- The influence of adhesives and mortars on the bearing capacity of masonry walls;
- The use of local eco-friendly materials for infill walls;
- Carbon footprint and life cycle assessment of masonry constructions;
- The diagnosis of masonry building integrity using advanced non-destructive methods.

Guest Editors

Prof. Dr. Dorina Nicolina Isopescu

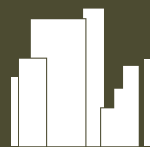
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About the Journal

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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