

Special Issue

Structural Health Monitoring of Masonry Buildings: Current Practice and Future Challenges

Message from the Guest Editors

The SI aims to collect and disseminate the most recent advances in the employment of structural health monitoring techniques for the condition assessment of existing masonry buildings. The SI welcomes applications focusing on single case studies as well as those addressed to the urban and territorial scales, in both ordinary and emergency conditions, exploring—among others—the topics of:

- Integration of dynamic tests with other non-destructive techniques or static monitoring;
- Innovative sensing technologies and monitoring networks, optimal sensor placement, and data fusion strategies;
- Assessment of aging, degradation, and damage phenomena from monitoring data;
- Hybrid data-informed and model-driven methodologies for structural health diagnosis and prognosis;
- Early-warning systems and protection of the built heritage in seismic-prone regions;
- Supporting decision-makers in the aftermath of a seismic event with damage/usability condition assessment.

You can find more information at the following link:

https://www.mdpi.com/journal/buildings/special_issues/L9V3YK58FL

Guest Editors

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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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manuscripts are peer-reviewed and a first decision is provided to authors approximately 15.1 days after submission; acceptance to publication is undertaken in 2.9 days (median values for papers published in this journal in the second half of 2025).