

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

Guest Editors:

Dr. Serena Cattari

Associate Professor, Department of Civil, Chemical and Environmental Engineering, University of Genova, Via Montallegro 1, 16145 Genova, Italy

Dr. Philippe Gueguen

Isterre, Université Grenoble Alpes/Université Gustave Eiffel, 38610 Gières, France

Dr. Ilaria Venanzi

Associate Professor, Department of Civil and Environmental Engineering, University of Perugia, 1, 06123 Perugia, PG, Italy

Deadline for manuscript submissions:

closed (5 December 2023)

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



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

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.

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Buildings Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

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