Special Issue

Recent Scientific Developments in Structural Damage Identification

Message from the Guest Editors

The development of building structures is in full swing, and the world's building pattern is gradually shifting from new construction to new construction and renovation. It is in the stage of evaluating the current status of existing structures, reinforcing maintenance, and renovation. Scientists are constantly searching for new methods and techniques for identifying structural damage to cope with apparent crack corrosion, structural deformation, and anomalous dynamic properties during service. Therefore, it is necessary to study and summarize the new developments, ideas, and concepts of damage identification of building structures in service to maximize their long-term performance and safety reserves.

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Deadline for manuscript submissions

31 March 2026

Buildings

an Open Access Journal by MDPI

Impact Factor 3.1
CiteScore 4.4

mdpi.com/si/216058

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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. 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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