

Special Issue

Strengthening and Rehabilitation of Structures or Buildings

Message from the Guest Editors

This Special Issue aims to gather contributions may include, but not limited to:

- Advanced materials for strengthening and repair.
- Innovative strengthening techniques.
- Seismic retrofitting and resilience enhancement strategies and design for earthquake-prone regions.
- Rehabilitation of heritage and historic structures while preserving their architectural integrity.
- Development and validation of design guidelines and standards for structural strengthening and rehabilitation.
- Nondestructive evaluation methods and monitoring techniques for assessing structural health and effectiveness of repairs.
- Case studies demonstrating successful rehabilitation and/or strengthening projects and lessons learned.
- Computational modeling and simulation of strengthened and rehabilitated structures under various loading conditions.
- Impact of environmental factors and long-term durability of rehabilitation and strengthening materials and techniques.

For further reading, please follow the link to the Special Issue Website at:

https://www.mdpi.com/journal/buildings/special_issues/TIU984E9G6

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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.

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