Special Issue

Challenges in Structural Repairs and Renovations

Message from the Guest Editors

Structural repairs and renovations are problems faced by most civil engineers, but they are addressed to a much lesser extent in the literature and national regulations compared to new constructions. The aim of this Special Issue is to gather knowledge related to new techniques, materials, experimental research, and theoretical calculation methods related to structural repairs and renovations. We invite authors to submit original research, theoretical and experimental work, case studies, and comprehensive review papers for possible publication. The topics relevant to this Special Issue include, but are not limited to, the following subjects:

- New techniques used in structural repairs and renovations;
- New materials used in structural repairs and renovations;
- Experimental research related to structural repairs and renovations;
- New calculation techniques for proving the mechanical resistance and stability of structural repairs and renovations;
- Parametric numerical analyses related to structural repairs and renovations.

For further reading, please follow the link to the Special Issue Website at:
https://www.mdpi.com/journal/buildings/special_issues/ P7XE00550P

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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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