Special Issue

Structural Resilience and Sustainable Development of Reinforced Concrete Structures

Message from the Guest Editors

The environmental impact of reinforced concrete structures is increasingly a source of discussion in various areas of knowledge. This Special Issue will include original research of analytical or experimental studies, applications, and case studies that, among their objectives, pursue a sustainable development of reinforced concrete structures. Topics of interest include but are not limited to the following:

- Green development of structures and use of sustainable materials;
- Structural resilience;
- Environmental impact of RC structures;
- Use of passive, hybrid, active and semi-active control devices;
- Seismic risk assessment of sustainable structures;
- Seismic vulnerability of RC structures;
- Use of new methodologies to design sustainable structures;
- Improvement of life-cycle of structures;
- Damage mitigation in RC structures;
- Rehabilitation and retrofit techniques for sustainable RC structures.

For further reading, please follow the link to the Special Issue Website at:
https://www.mdpi.com/journal/buildings/special_issues/07Z15GFI48

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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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