Special Issue

Advanced Studies in Structural Performance, Durability, and Constractional Improvements of Reinforced Concrete Structures

Message from the Guest Editors

Reinforced concrete (RC) remains one of the most widely used construction materials worldwide due to its versatility, strength, and cost-effectiveness. However, growing concerns related to aging infrastructure, environmental degradation, and increasing seismic and climate-related demands necessitate advanced research regarding improvements in the performance and durability of RC structures. This Special Issue aims to highlight recent innovations in the analysis, design, materials, and retrofitting techniques that enhance **both the structural integrity and long-term sustainability of RC systems**. Key areas of interest include **advanced modeling and experimental studies on structural performance under extreme loads, the integration of smart and sustainable materials, novel construction methods, and the development of performance-based design strategies**. In addition, we welcome the submission of articles that focus on the application of **fiber-reinforced concrete (FRC), high-performance concrete (HPC), corrosion-resistant systems, alkali-activated HPC and UHPC, and life-cycle assessment (LCA)**. More details: https://www.mdpi.com/journal/buildings/special_issues/53KOX993T5

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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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