Special Issue

Structural Analysis for Reinforced Concrete

Message from the Guest Editor

Reinforced concrete is a composite material widely used in construction, which combines the properties of concrete and reinforcement to create a structurally strong and durable material. It offers numerous advantages in terms of strength, durability, versatility, and cost-effectiveness, making it a popular choice for a wide range of construction projects. In order to safely and reasonably apply reinforced concrete to structures, it is necessary to establish accurate and effective theories to estimate the mechanical properties and sustainable design methods for reinforced concrete structures. This Special Issue plans to give an overview of the most recent advances in the field of reinforced concrete structures and their applications in diverse areas. Potential topics include, but are not limited to: Mechanical properties of reinforced concrete; Composite structures; Fiber-reinforced concrete; Reinforcement technologies; Seismic performance and retrofitting; Performance-based design. For further reading, please follow the link to the Special Issue Website at: https://www.mdpi.com/journal/buildings/special_issues/ RNRHLLI8H8

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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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