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Advances in Experimental and Computational Research on Reinforced Concrete Structures

Guest Editors:

Prof. Dr. Ying Tian

Dr. Sarah Orton

Dr. Trevor Hrynyk

Prof. Dr. Liping Wang

Deadline for manuscript submissions:
closed (30 January 2024)

Message from the Guest Editors

Dear Colleagues,

We are pleased to invite you to submit a manuscript to a Special Issue of *Buildings*, "Advances in Experimental and Computational Research on Reinforced Concrete Structures". This Special Issue aims to provide a venue for communicating the most recent results of original experimental or computational research on reinforced concrete (RC) building structures. The topics of interest are broad, covering the performance of structural components/systems under hazardous conditions (e.g., strong earthquakes, blasts, and corrosions), mechanical modeling and numerical simulation approaches, the structural application of unconventional materials, and performance-based design approaches. High-quality case studies and critical literature reviews are also welcome.

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Editor-in-Chief

Prof. Dr. David Arditi
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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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