Special Issue

Assessment and Retrofit of Reinforced Concrete Structures

Message from the Guest Editors

This Special Issue is open to all kinds of advances and novel applications related to prestressed and non-prestressed reinforced concrete structures in seismic and non-seismic areas. Papers can focus on laboratory tests and the numerical modeling of members subjected to monotonic or cyclic actions, as well as on the seismic analysis and assessment of single members, subassemblies, or complex structures. The structures considered can be the result of modern or old structural codes and are also subjected to damage from climatic actions, e.g., the corrosion of longitudinal and transverse reinforcements. The results of the numerical analyses can be elaborated in compliance with deterministic or probabilistic analyses to evaluate the seismic vulnerability, risk, or resilence of structures. We particularly welcome research studies on the retrofitting of structures by means of traditional or innovative methods and on loss assessment.

Guest Editors

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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.

Editor-in-Chief

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