

Special Issue

Long-Term Durability Performance of Steel-Reinforced Concrete and Steel-Fiber-Reinforced Concrete

Message from the Guest Editors

The long-term durability of steel-reinforced concrete in marine environments is fundamental to the sustainability and resilience of coastal and offshore infrastructure. With growing demand stemming from global population increase and urbanization, ensuring the long service life of these structures against chloride-induced corrosion is a critical challenge. Durability in this context specifically denotes the capability of the concrete and its reinforcement system to resist chemical attack and environmental stress while retaining its key mechanical properties over an extended period. The service life of a marine structure is largely determined by the materials used—for instance, the concrete composition and the type of reinforcement—together with the design and construction techniques applied. Neglecting these factors can lead to premature degradation, resulting in significant safety hazards, economic costs, and environmental consequences. For this Special Issue, we welcome the submission of high-quality original research articles, case studies, ongoing project reports, and review papers that address the long-term durability of concrete and steel structures.

Guest Editors

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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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