



New and Future Progress for Concrete Structures

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Deadline for manuscript
submissions:

31 May 2024

Message from the Guest Editors

Dear Colleagues,

This Special Issue aims to report new and future progress of concrete structures all over the world. It is well-known that the 2015 Paris Agreement on climate change following the COP 21 Conference on Climate Change required states to reduce carbon emissions in the building stock. This brings great challenges to concrete structures. Consequently, the key factors to solve this problem are to study new concrete materials and structures to improve the utilization rate of concrete and the service life of concrete structures.

This Special Issue covers all aspects of science and technology concerned with the whole life cycle of concrete structures. The journal will cover, but is not limited to, the following topics about concrete structures: concrete materials; construction technology and engineering; service life prediction; structural analysis; structural assessment; structural design; structural health monitoring; sustainable design and operation. This Special Issue only publishes papers where significant scientific novelty is clearly demonstrated.



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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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