



Research on the Crack Control of Concrete

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Deadline for manuscript
submissions:

31 January 2025

Message from the Guest Editors

Dear Colleagues,

Concrete is one of the most commonly used materials in building construction; however, cracking is a significant challenge constraining its performance and longevity. This Special Issue focuses on the latest research developments in the concrete cracking control field, providing a platform for engineers, researchers and experts in related fields to gain insight into and discuss the subject. This Special Issue aims to cover a representative range of research and review papers on various aspects of concrete cracking, including cracking mechanisms, prevention measures, material modification, design guidelines and structural performance. These papers present readers with new theories, design methods, construction techniques and innovative materials to reduce the risk of cracking and enhance the performance and durability of concrete structures. Our academic committee has rigorously reviewed these papers to ensure their quality and innovation.

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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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