

Special Issue

Recent Research Progress of UHPC in Structural Engineering

Message from the Guest Editors

UHPC is a cementitious composite material composed of an optimized gradation of granular constituents, exhibiting exceptional properties of strength and durability, which is an ideal candidate for developing new solutions in reaction to pressing concerns regarding structure deterioration, repair, and replacement. It is our pleasure to invite you to submit a manuscript for this SI. Technical articles and review papers are expected to reflect original research and technological advances on topics that include, but are not strictly limited to, the following fields:

- Long life-span of UHPC structures;
- Structural behavior of UHPC and prestressing UHPC structures;
- Emerging algorithms and analytical approaches in UHPC structures;
- Durability or long-term performance of UHPC structures;
- Application of UHPC in strengthening structures;
- Industrialized and intelligent construction of UHPC structures.

For further reading, please follow the link to the Special Issue Website at:

https://www.mdpi.com/journal/buildings/special_issues/932U86JYM4

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Deadline for manuscript submissions

closed (30 November 2023)



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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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manuscripts are peer-reviewed and a first decision is provided to authors approximately 15.1 days after submission; acceptance to publication is undertaken in 2.9 days (median values for papers published in this journal in the second half of 2025).