

Special Issue

Advances in Novel Bridge Structures Pertinent to High-Performance Concrete

Message from the Guest Editors

Currently, research on novel bridges relevant to high-performance concrete is relatively scarce, which is the primary obstacle to the widespread adoption of the new fruits. The codification of the corresponding standards has also lagged behind technological advancement. The purpose of this Special Issue is to showcase the latest achievements of the novel bridge structures relevant to high-performance concrete. The main topics of interest include, but are not limited to, the following areas:

- Novel bridges made of high-performance concrete (HPC), e.g., ultra-high-performance concrete (UHPC), fiber-reinforced concrete (FRC), and engineering cementitious composites (ECC), textile reinforced concrete (TRC), etc.;
- Precast/prestressed bridge structures for accelerated construction;
- Steel/HPC-concrete composite bridges;
- Joins or critical portions of bridge elements;
- Rehabilitation/retrofitting of existing bridge structures.

For more information, please visit the special issue link: https://www.mdpi.com/journal/buildings/special_issues/KH30Z4858A

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Deadline for manuscript submissions

30 June 2026



Buildings

an Open Access Journal
by MDPI

Impact Factor 3.1
CiteScore 4.4



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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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