# Special Issue

# Application of High-Performance Asphalt and Asphalt Mixture in Construction

### Message from the Guest Editors

The development and application of high-performance asphalt and asphalt mixtures have emerged as crucial components in modern construction. The utilization of high-performance asphalt mixtures incorporates innovative additives and modifiers that enhance material properties, including rubber, polymers, reclaimed asphalt pavements (RAP), cement, et al. These components contribute to the mixtures' flexibility, strength, and recyclability, further reducing the environmental impacts. In construction, the application of these technologically enhanced asphalts ensures a faster, more efficient paving process, with reduced maintenance requirements and greater costeffectiveness over time. Therefore, this Special Issue welcomes the submission of experimental, modelling, and in situ studies related to high-performance asphalt and asphalt mixtures, pavement construction techniques, and field performance. The articles presented in this Special Issue shall clearly identify their novelty and contribution to the field. For further reading, please follow the link to the Special Issue Website at: https://www.mdpi.com/journal/buildings/special\_issues / AKC8711F52

#### **Guest Editors**

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# Deadline for manuscript submissions

closed (20 March 2025)



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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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