Special Issue

Intelligence Techniques Applied in Infrastructure, Engineering and Construction

Message from the Guest Editors

This Special Issue aims to showcase interdisciplinary research that bridges the gap between emerging technologies and conventional infrastructure methodologies. By highlighting innovative applications and theoretical progress, this Special Issue aspires to contribute to the advancement of intelligent techniques in creating more resilient, efficient, and sustainable infrastructure systems. We invite contributions that delve into the application of these intelligent techniques across a broad spectrum, including green transportation solutions, intelligent transportation systems, and the enhancement of infrastructure durability and robustness. Papers exploring big data applications in transportation, risk assessment, and management strategies, as well as energy optimization in the context of infrastructure projects, are particularly welcome. We look forward to receiving your insightful contributions to this important and timely topic.

Guest Editors

Dr. Kaiwen Liu

Dr. Tengfei Wang

Dr. Xiaoning Zhang

Deadline for manuscript submissions

closed (15 March 2025)

Buildings

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CiteScore 4.4

mdpi.com/si/195344

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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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