

Special Issue

Smart Construction and Operation for Infrastructure

Message from the Guest Editors

The rapid advancement of digital technologies and intelligent systems is transforming infrastructure development, facilitating smarter, safer, and more sustainable practices. This Special Issue seeks to gather state-of-the-art research on the integration of advanced technologies across the entire infrastructure lifecycle—from design and construction to operation and maintenance. We welcome interdisciplinary contributions that address pressing global challenges such as climate resilience, urbanization, and resource efficiency while aligning with the United Nations Sustainable Development Goals (SDGs). Original theoretical and empirical studies, case studies, and comprehensive reviews are welcome. Topics of interest include but are not limited to the following:

- smart construction technologies
- intelligent infrastructure management
- AI in construction
- building information modeling (BIM)
- digital twin
- predictive maintenance
- servitization in construction
- sustainable infrastructure
- infrastructure lifecycle optimization

Guest Editors

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About the Journal

Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

Editor-in-Chief

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