

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

Dr. Yan Liu

Dr. Qian Zhang

Dr. Zigeng Fang

Deadline for manuscript submissions

20 March 2026



Applied Sciences

an Open Access Journal
by MDPI

Impact Factor 2.5
CiteScore 5.5



mdpi.com/si/249825

Applied Sciences
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
appls@mdpi.com

mdpi.com/journal/

[appls](https://appls.mdpi.com)





Applied Sciences

an Open Access Journal
by MDPI

Impact Factor 2.5
CiteScore 5.5



[mdpi.com/journal/
applsci](https://mdpi.com/journal/applsci)



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

Prof. Dr. Giulio Nicola Cerullo
Dipartimento di Fisica, Politecnico di Milano, Piazza L. da Vinci 32,
20133 Milano, Italy

Author Benefits

Open Access:

free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility:

indexed within Scopus, SCIE (Web of Science), Ei Compendex, Inspec, CAPlus / SciFinder, and other databases.

Journal Rank:

JCR - Q2 (Engineering, Multidisciplinary) / CiteScore - Q1 (General Engineering)