

Special Issue

Performance of Infrastructures under Extreme Loads and Complex Environments

Message from the Guest Editors

We cordially invite you to contribute to our upcoming Special Issue, entitled “Performance of Infrastructures under Extreme Loads and Complex Environments”. This Special Issue aims to explore the performance and behaviour of infrastructures under extreme conditions and to provide new perspectives and in-depth insights for research in this field. Extreme loads such as earthquakes, floods and explosions are devastating disasters that impose serious challenges on the safety and reliability of infrastructures. Complex environmental conditions include rainfall, freeze–thaw cycles, and droughts, and can gradually deteriorate infrastructures, leading to reduced performance and compromised security. The study of the performance and behavior of infrastructures, including dams, embankments, harbors, tunnels and bridges is of great importance in preventing and mitigating the effects of devastating hazards. We encourage authors to share their research results, experiences, and perspectives in this Special Issue to promote the development and progress of the field.

Guest Editors

Dr. Jianwen Pan

Dr. Hui Jiang

Dr. Jingmao Liu

Deadline for manuscript submissions

closed (30 September 2024)



Buildings

an Open Access Journal
by MDPI

Impact Factor 3.1
CiteScore 4.4



mdpi.com/si/179255

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

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





Buildings

an Open Access Journal
by MDPI

Impact Factor 3.1
CiteScore 4.4



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



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

Prof. Dr. David Arditi

Construction Engineering and Management Program, Department of Civil, Architectural, and Environmental Engineering, Illinois Institute of Technology, 3201 South Dearborn Street, Chicago, IL 60616, USA

Author Benefits

High Visibility:

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

Journal Rank:

JCR - Q2 (Construction and Building Technology) /
CiteScore - Q1 (Architecture)

Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 14.9 days after submission; acceptance to publication is undertaken in 2.7 days (median values for papers published in this journal in the first half of 2025).