

Special Issue

Building Vibration and Soil Dynamics

Message from the Guest Editors

We invite original research articles and reviews that encompass a wide range of topics, including but not limited to:

- Characteristics of vibration sources, soil dynamics, building vibrations, and noise.
- Physical modelling, experimental investigations, and on-site monitoring of ground and building vibrations, as well as noise induced by railway traffic or earthquakes.
- Analysis of soil–building dynamic interaction.
- Techniques and methods for vibration reduction in buildings and surrounding areas.
- Utilization of artificial intelligence in soil dynamics and building vibrations.
- Development of guidelines and standards pertaining to building vibrations and noise.

Guest Editors

Dr. Chao He

Dr. Wenbo Tu

Dr. Chao Zou

Dr. Yunlong Guo

Deadline for manuscript submissions

closed (31 July 2024)



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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

Prof. Dr. David Arditi

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Author Benefits

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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 15.1 days after submission; acceptance to publication is undertaken in 2.9 days (median values for papers published in this journal in the second half of 2025).