



Building Vibration and Soil Dynamics

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Deadline for manuscript
submissions:

31 July 2024

Message from the Guest Editors

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

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



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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.

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