Special Issue

Building Vibration and Soil Dynamics—2nd Edition

Message from the Guest Editors

The growing demand for sustainable transportation has led to a significant interest in developing rail transit networks for both intra-city and inter-city travel. However, train-induced vibrations transmitted through soils to nearby buildings have become widely recognized environmental concerns, causing significant negative influence on nearby buildings, sensitive equipment, and residents. 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 modeling, 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...

For more information, please click on the special issue link:
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Guest Editors

Dr. Chao He

Dr. Wenbo Tu

Dr. Chao Zou

Dr. Yunlong Guo

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

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

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