

## Structural Vibration Control Research

Guest Editor:

**Dr. Weibing Xu**

Faculty of Architecture, Civil And  
Transportation Engineering,  
Beijing University of Technology,  
Pingleyuan No.100, Chaoyang  
District, Beijing, China

Deadline for manuscript  
submissions:

**30 June 2024**

### Message from the Guest Editor

Dear Colleagues,

This Special Issue focuses on structural vibration control research of building structures and critical infrastructure. The dynamic response and dynamic performance of building structures and critical infrastructure under complex loads need to be clarified. To improve the dynamic performance of building structures and critical infrastructure, new types of damping device and damping method also need to be proposed. The vibration analysis method and vibration control method of building structures and critical infrastructure are extremely important considering their complex loads and service conditions.

The aim of this Special Issue is to collect and disseminate the latest research in these fields from world-leading researchers. Contributions related to the behavior of a new type of dampers for structures, damping mechanism of complex structures, the dynamic performance of complex structures, new types of anti-vibration method for structures, and the application of new damping devices for structures are most welcome.

Dr. Weibing Xu



[mdpi.com/si/122862](https://mdpi.com/si/122862)

# Special Issue

## 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

## 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.

## 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), Inspec, and other databases.

**Journal Rank:** JCR - Q2 (*Engineering, Civil*) / CiteScore - Q1 (*Architecture*)

## Contact Us

---

*Buildings* Editorial Office  
MDPI, St. Alban-Anlage 66  
4052 Basel, Switzerland

Tel: +41 61 683 77 34  
[www.mdpi.com](http://www.mdpi.com)

[mdpi.com/journal/buildings](http://mdpi.com/journal/buildings)  
[buildings@mdpi.com](mailto:buildings@mdpi.com)  
[X@Buildings\\_MDPI](https://twitter.com/Buildings_MDPI)