

Special Issue

Advanced Research on Improvement of the Indoor Acoustic Environment

Message from the Guest Editors

Our lives take place inside and around buildings, where we live, rest, enjoy leisure and culture, pray, etc. The quality of our living spaces depends on their design and the integration of critical variables, including their acoustic quality. In this Special Issue, we welcome original research related to soundproofing insulation, acoustic conditioning, soundscapes, land use and planning, the incorporation of novel technologies and materials, and new computational tools that demand an assessment of their effectiveness. The topics of this Special Issue include but are not limited to:

- room and indoor acoustics
- architectural design for noise control
- acoustic conditioning and materials
- acoustic modelling and simulation
- emerging technologies for building insulation
- acoustic sustainability
- urban acoustics
- soundscapes
- psycho-acoustic
- virtual reality technology

For more information, please click on the link:

https://www.mdpi.com/journal/buildings/special_issues/28N666QC4I

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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

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