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Acoustics of Buildings

Guest Editor:

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Deadline for manuscript submissions:
closed (20 November 2022)

Message from the Guest Editor

The evaluation of the acoustic quality of a building is a delicate and somewhat personal issue, due in part to the complexity of the sound field system contained in enclosed spaces, the acoustic features of the outlining surfaces, the building system used, and also the volume of the rooms. It should not be overlooked that this is true not only for new builds but also for renovated buildings.
The aim of this Special Issue is to provide and share the latest research regarding the improvement of the sound quality in buildings. This could cover several topics but need not be restricted to the following:

- Sound insulation
- Low frequencies
- Reverberation
- Measurement methods
- Prediction methods
- Perception
- Flanking transmission
- Measurements

We very much look forward to your submissions!

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Editor-in-Chief

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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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