Special Issue

Towards Acoustic Comfort in Buildings

Message from the Guest Editors

Building acoustics has been an interesting research topic for decades. As we spend most of our time in buildings, acoustic comfort inside a building is therefore of the utmost importance. This includes designing buildings to be quiet and free from unwanted noise, as well as designing spaces with good sound quality for specific purposes. The role of acoustic materials are crucial. Although synthetic materials such as glass wools and rock wools are still widely employed, more environmentally friendly materials have been found to have comparable sound absorption performance. Studies have also been published on non-fibrous acoustics absorbers such as micro-perforated panels (MPPs), acoustic meta-materials, or porous concrete to enhance the absorption inside a building. In providing acoustic comfort, the structure-borne sound sources must also be tackled. In this Special Issue, we welcome any research that contributes to the enhancement of acoustic comfort in buildings. The sub-themes of this topic include, but are not limited to: sound insulation; sound absorption; room acoustics; speech intelligibility; noise control; vibration control; architectural acoustics.

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Deadline for manuscript submissions

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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.

Editor-in-Chief

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