Special Issue

New Challenges in Building Acoustics

Message from the Guest Editors

Modern building acoustics have advanced over the past 150 years since the field was founded by W. C. Sabine. It developed mainly according to modern science and technology based on the Third Industrial Revolution. However, we are currently facing the Fourth Industrial Revolution in smart cities, with a fusion of artificial intelligence, robotics, the Internet of Things, genetic engineering and more. Furthermore, rapid urbanization with dense populations and high-speed transportation increases complex noise sources both indoors and outdoors of buildings. On the other hand, the demand for better acoustic built environments is also increasing, along with the improved quality of life. In this context, new challenges including the convergence of cutting-edge technologies and multi-disciplinary research are required to solve difficult problems and to promote acoustical comfort in building acoustics. This Special Issue focuses on all innovative aspects of building acoustics.

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As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

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