



## Architectural Acoustics: From Theory to Application

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### Message from the Guest Editor

Acoustic quality in buildings is an essential aspect of the constructions' designs. Architectural acoustics include room and building acoustics, which entail the evaluation of sound insulation or acoustic quality, and the measurement or calculus of physical acoustic parameters. Architectural acoustics encompass several topics and applications, ranging from opera houses, theatres, concert halls and auditoriums, to schools, cinemas, restaurants and open spaces. Modelling sound insulation or acoustic quality is an important component of architectural acoustics. Measurements of insertion losses or sound reflections in enclosures by means of multichannel microphone arrays, as well as 3D auralization or psychoacoustic evaluation of the sound quality in a specialized listening room, are still important components of this topic, which includes the human perception of the acoustics of enclosure.

Topic (not limited to):

- 3D auralization;
- Acoustic measurements;
- Sound sources in room acoustics;
- Computational acoustics;
- Listening room design and characteristics;
- Acoustic design of concert halls or auditoriums;
- Virtual acoustic reconstruction of historical venues;





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## Editor-in-Chief

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## Message from the Editor-in-Chief

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