

Special Issue

Musical Acoustics and Sound Perception

Message from the Guest Editors

This Special Issue, "Musical Acoustics and Sound Perception", aims to explore the intricate relationships between the physics of sound and its perceptual impact on listeners. We invite original research articles, reviews, and theoretical studies that delve into topics such as the acoustics of musical instruments, the simulation of musical instruments in various sound environments, psychoacoustics, and auditory perception. This collection will be valuable for researchers, educators, and professionals in the fields of music technology, acoustics, auditory science, musicology, musical instrument making, and sound engineering. Key topics include, but are not limited to:

- Acoustics of musical instruments;
- Simulation of musical instruments;
- Psychoacoustics and sound perception;
- Auditory perception and cognition;
- Audio signal processing;
- Acoustic modeling in performance spaces;
- Acoustic measurements and analysis;
- Spatial audio perception.

Guest Editors

Dr. Spyros Polychronopoulos

Dr. Ana Maria Barbancho

Dr. Andrea Santoni

Deadline for manuscript submissions

closed (20 December 2025)



Applied Sciences

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mdpi.com/si/223454

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About the Journal

Message from the Editor-in-Chief

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.

Editor-in-Chief

Prof. Dr. Giulio Nicola Cerullo

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