



an Open Access Journal by MDPI

Spatial Audio and Sound Design

Guest Editors:

Dr. Nikolaos Vryzas

Laboratory of Electronic Media, School of Journalism & Mass Communications, Aristotle University of Thessaloniki, 541 24 Thessaloniki, Greece

Dr. Lazaros Vrysis

Laboratory of Electronic Media, School of Journalism & Mass Communications, Aristotle University of Thessaloniki, 541 24 Thessaloniki, Greece

Deadline for manuscript submissions:

10 October 2024



Dear Colleagues,

Spatial audio has gained a lot of attention in recent years, given the emergence of immersive environments and eXtended Reality. This has opened new possibilities in sound design while fueling rapid developments in the fields of the 3D acoustic modeling of spaces, spatial audio encoding and distribution, and challenges in playback, which also involve human perception. New recording being introduced, extending techniques are the established knowledge on microphone arrays. Moreover, sound source localization is evolving, not only for creative purposes and sound design, but also for industrial and other applications, like underwater acoustics. The simultaneous rise of deep learning unlocks new possibilities in the deployment of data-driven approaches to the management and extraction of information from multichannel spatial audio information volumes.

- sound source localization
- sound design and immersive environments
- data-driven approaches and machine learning for multichannel audio

Specialsue

- spatial audio and room acoustics
- spatial audio recording and playback
- spatial audio encoding and distribution



mdpi.com/si/201260





an Open Access Journal by MDPI

Editor-in-Chief

Message from the Editor-in-Chief

Prof. Dr. Giulio Nicola Cerullo Dipartimento di Fisica, Politecnico di Milano, Piazza L. da Vinci 32, 20133 Milano, Italy 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.

Author Benefits

Open Access: free for readers, with article processing charges (APC) paid by authors or their institutions.
High Visibility: indexed within Scopus, SCIE (Web of Science), Inspec, CAPlus / SciFinder, and other databases.
Journal Rank: JCR - Q2 (*Engineering, Multidisciplinary*) / CiteScore - Q1 (*General Engineering*)

Contact Us

Applied Sciences Editorial Office MDPI, St. Alban-Anlage 66 4052 Basel, Switzerland Tel: +41 61 683 77 34 www.mdpi.com mdpi.com/journal/applsci applsci@mdpi.com X@Applsci