

Special Issue

Computational Acoustic Scene Analysis

Message from the Guest Editors

Computational acoustic scene analysis is a highly-active research field where audio signal processing and machine learning meet several scientific topics, such as room acoustics, microphone arrays, sound source localization, source separation, acoustic event detection, pattern classification, and many others. Emerging application fields include surveillance, environmental monitoring, hearing-aids, distant-speech interaction, for example in smart-home and industry automation. In most of these cases, state-of-the-art techniques are still inadequate for a deployment in real-world contexts. In this Special Issue, we aim to describe current advances on computational methods on acoustic scene analysis in the following topics, but not limited to them: Acoustic event detection and classification

Acoustic scene classification

Environmental monitoring by means of audio signals

Sound source localization and tracking

Sound source and speech activity detection

Blind source separation

Acoustic scene understanding

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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.

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