



Computational Acoustic Scene Analysis

Guest Editors:

Dr. Maurizio Omologo

Fondazione Bruno Kessler (FBK),
38122 Trento, Italy

Prof. Dr. Stefano Squartini

Department of Information
Engineering, Università
Politecnica delle Marche, 60121
Ancona, Italy

Prof. Dr. Tuomas Virtanen

Laboratory of Signal Processing,
Tampere University of
Technology, 33720 Tampere,
Finland

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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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Editor-in-Chief

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

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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MDPI, Grosspeteranlage 5
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