



Deep Learning for Applications in Acoustics: Modeling, Synthesis, and Listening

Guest Editors:

Dr. Leonardo Gabrielli

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

Dr. George Fazekas

Queen Mary University, London, UK

Dr. Juhan Nam

Korea Advanced Institute of Science and Technology, Korea

Deadline for manuscript submissions:

closed (31 July 2020)

Message from the Guest Editors

In this special issue, we welcome the submission of papers dealing with novel computational methods involving modelling, parametrization, and knowledge extraction of acoustic data. The considered topics include, e.g.:

- Applications of Deep Learning to sound synthesis
- Control and estimation problems in physical modeling
- Intelligent music production and novel digital audio effects
- Representation learning and/or transfer of musical composition and performance characteristics including, timbre, style and playing technique
- Analysis and modelling of acoustic phenomena including musical acoustics, speech signals, room acoustics, environmental, ecological, medical and machine sounds.
- Machine listening and perception models inspired by human hearing
- Application of Deep Learning to wave propagation problems in fluids and solids

We aim at fostering good research practices in Deep Learning. We strongly support works that are based on open datasets and source code, works that excel on the scientific method, and works providing evidences and explanations for the observed phenomena.





an Open Access Journal by MDPI

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.

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 - Q1 (Engineering, Multidisciplinary) / CiteScore - Q1 (General Engineering)

Contact Us

Applied Sciences Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/applsci
applsci@mdpi.com
[X@Applsci](#)