Special Issue

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

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.

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Deadline for manuscript submissions

closed (31 July 2020)

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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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