Special Issue

Application of Deep Learning in Speech Enhancement Technology

Message from the Guest Editor

In recent years, the research in speech enhancement has advanced significantly with deep learning and artificial intelligence techniques. When sufficient training data are available, deep neural networks can learn to predict speech from the noisy signal, achieving promising results in non-stationary and highly noisy acoustic environments. For this reason, deep learning-based speech enhancement has been investigated intensively and is becoming a hot spot in the field of speech processing. This Special Issue aims to accelerate the research progress by reporting the latest theoretical and practical advances applying deep learning to speech enhancement, discussing emerging problems, creative solutions, and novel insights in the field. This Special Issue will mainly focus on (but is not limited to) the following deep learning-related topics:

- Single-channel speech enhancement;
- Multi-channel speech enhancement;
- Multi-modal speech enhancement;
- Explainable speech enhancement;
- Novel applications of speech enhancement.

Guest Editor

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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.

Editor-in-Chief

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