

Special Issue

Advanced Technology in Speech and Acoustic Signal Processing

Message from the Guest Editors

We live in a world of sound, including the sound of nature, animals and humans. Uncovering information from sound waves remains an active research field, with challenges such as event detection, speech recognition, speaker recognition, and emotion recognition, to name a few. Conventional approaches are mostly based on statistical models, while the new generation of technologies extensively uses neural models as the backbone, partly due to the accumulation of large-scale data. In recent years, numerous novel methods have been proposed such as end-to-end modeling, effective data augmentation, large-scale pre-training, and smart design of architectures and loss functions. These new techniques have brought significant performance improvement, which in turn substantially extends the application scope of techniques.

This special issue will focus on novel theories and methods as well as new experimental findings in various domains of speech and acoustic signal processing, including but not limited to speech enhancement, experimental acoustics, speech/speaker/emotion recognition, multimodal signal processing, and speech synthesis.

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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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