Special Issue

Automatic Speech Signal Processing

Message from the Guest Editor

Speech signals are an important medium for Human-to-Computer Interactions. Speech has the advantages of easy access, a small amount of data, a non-line-of-sight effect and other advantages. It is also vulnerable to interference, strong information coupling and other challenges. Major progress is being published regularly on both the technology and exploitation of Automatic Speech Signal Processing (ASSP). However, there are still technological barriers to flexible solutions and user satisfaction under some circumstances. This is related to several factors, such as sensitivity to the environment (background noise) or the weak representation of grammatical and semantic knowledge. We are interested in articles that explore robust ASSP systems. Potential topics include but are not limited to the following:

- Automatic speech segmentation and phoneme detection;
- Automatic speech recognition with noised speech;
- Automatic speech translation;
- Automatic speech synthesis;
- Automatic classification of emotions in speech;
- Multi-modal speech recognition with video or physiological signals.

Guest Editor

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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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