



symmetry



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Symmetry/Asymmetry in Speech and Audio Processing: Topics, Challenges and Advances

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Message from the Guest Editors

Both statistical signal processing (SSP)-based and machine learning (ML)-based technologies of audio and speech processing have made progress, accelerating the research and application. For audio and speech processing, symmetrical and asymmetrical problems can arise due to the placement of microphones and/or speakers.

We welcome work that studies the mechanisms, methodologies, and treatments of the symmetrical and asymmetrical problems in the field of audio and speech processing.

Potential topics of interest include, but are not limited to:

- Symmetric/asymmetric microphone array and microphone array network for speech and audio signal processing;
- Symmetric/asymmetric windows and filter-bank design for speech and audio processing;
- 3D audio reproduction with symmetric/asymmetric speaker array;
- Symmetric/asymmetric hearing impairments and hearing-assistive devices;
- Symmetric/asymmetric binaural hearing and signal processing;

Deadline for manuscript submissions:

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Message from the Editor-in-Chief

Symmetry is ultimately the most important concept in natural sciences. It is not surprising then that very basic and fundamental research achievements are related to symmetry. For instance, the Nobel Prize in Physics 1979 (Glashow, Salam, Weinberg) was received for a unified symmetry description of electromagnetic and weak interactions, while the Nobel Prize in Physics 2008 (Nambu, Kobayashi, Maskawa) was received for the discovery of the mechanism of spontaneous breaking of symmetry, including CP symmetry. Our journal is named *Symmetry* and it manifests its fundamental role in nature.

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