

人の両耳聴取メカニズムとその応用

Binaural Hearing and Its Application



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The cocktail-party effect describes the ability to focus one's listening attention on a single talker among a mixture of conversations and background noises, ignoring other conversation. This good ability can be attributed to monaural processing and binaural processing of human auditory system, which motivates the computational auditory scene analysis (CASA) research which attempts to achieve this good ability by functionally modeling human auditory system.

In this lecture, we will start with the research on binaural hearing which helps us with the ability to listen in noisy, complex auditory environments and to localize sound source, followed by the introduction of some well-known models of binaural hearing. Inspired by the good understanding ability of human and based on the models, we begin to describe our recent research, namely, a Two-Stage BinAural Speech Enhancement with Wiener Filter (TS-BASE/WF) system. Finally, some discussions on this research and suggestions on future research are provided.



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