

Elektrotechnik-Elektronik-Informationstechnik

EEI KOLLOQUIUM

An Overview on Robot Audition

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Auditory processing for a robot, that is, robot audition is essential to human-robot interaction since the robot is expected to communicate with humans as we do. The main problem with robot audition is that the input signals captured with robot-embedded microphones are contaminated by noise sources such as environmental noise, interruption by other speakers, ego-motion noise of the robot, and so on.

This talk will show, supported by demo videos, how robot audition can solve these problems, e.g., by means of binaural processing and microphone array processing.