A TALKER TRACKING METHOD USING TWO MICROPHONES BASED ON THE SOUND SOURCE LOCALIZATION (ThuAmPO2)

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Abstract : In this paper, we propose a novel method for a target talker tracking using two microphones, which is often referred as the two channel microphone array. The target sound is adaptively extracted by the frequency domain generalized sidelobe canceler (FDGSC). Then, the results of sound source localization method, which is one of methods based on the time difference of arrival between two microphones and enables us to localize multiple sources in a realtime processing, utilized for the adjustment of the direction of target sound in the beamformer of the FDGSC. A superior performance of the proposed method are shown by several numerical experiments.