## Summary of Proposed Method

Table 3 summarizes the method proposed in this paper, describing the resulting output signals obtained at each stage.

1. CTF Estimation Using Wiener Filtering

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| Step 1: Acquire the microphone signal *ym*(*n*) and delay it to get **y***d,p*.  Step 2: Do TDOA-based source localization to obtain source location.  Step 3: Do WPE followed by DAS to *ym*(*n*) obtaining **s**DAS*,p*.  Step 4: Estimate the CTF coefficients matrix via one of the algorithms below.   1. CTF estimation using Wiener filtering 2. CTF estimation using stationary Kalman adaptive filtering   Step 5: Do (19) ~ (21) to obtain estimated RIRs or ATFs .  Step 6: Filter parameters optimization through PSO.  Step 7: Applications: MINT for dereverberation. |