

DCASE2025 Challenge TASK4 Rank 1

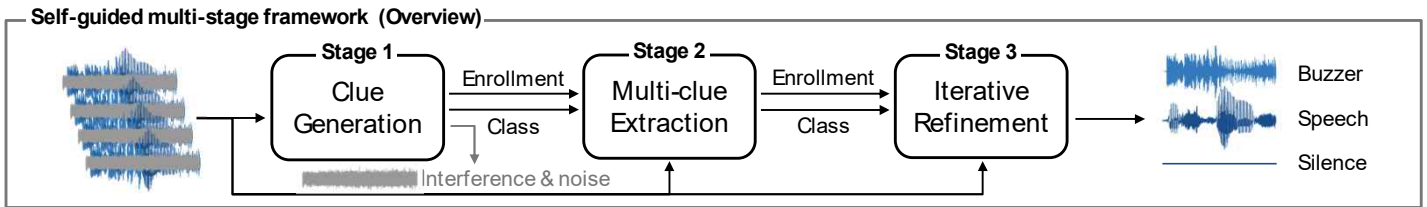
Self-Guided Target Sound Extraction and Classification Through Universal Sound Separation and Multiple Clues



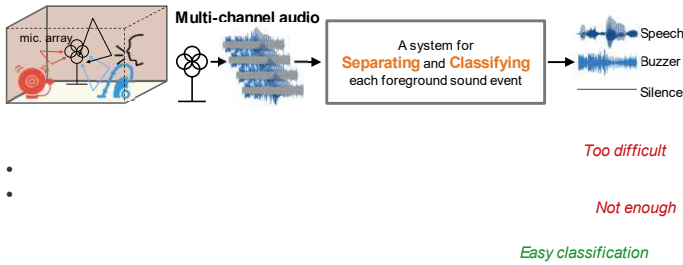
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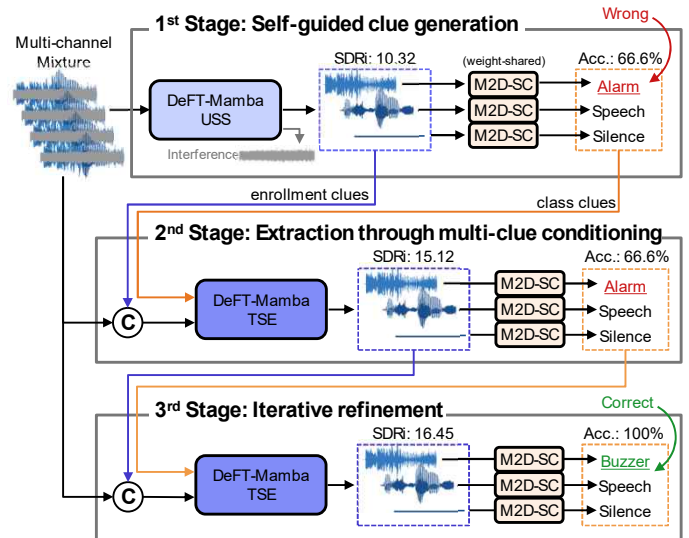
Highlights



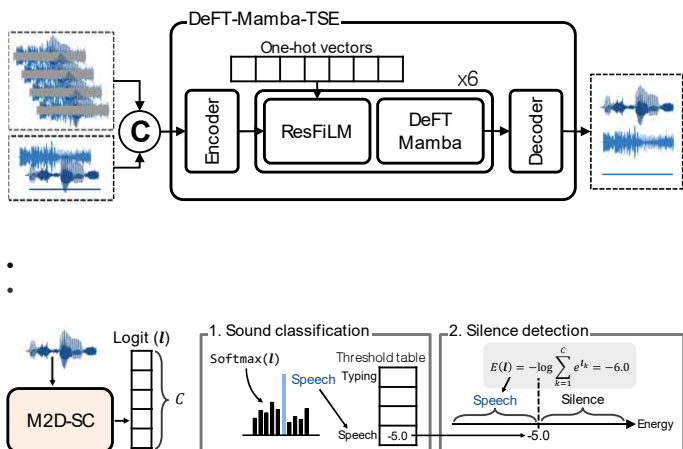
Introduction



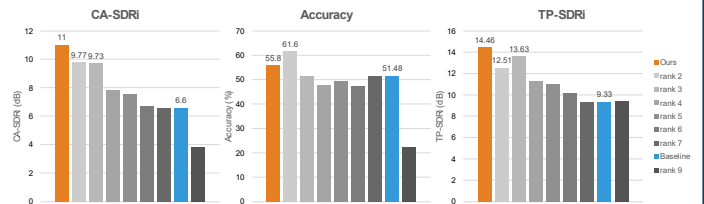
Our methodology



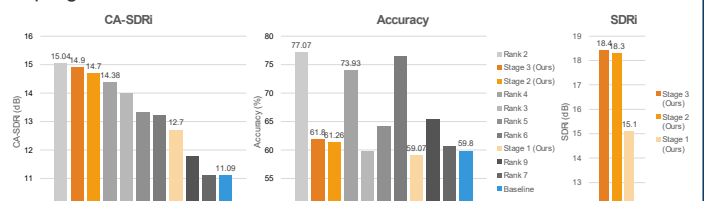
Three Model Components



Results



Both separation and classification performance improve as the stage progresses.



Evaluation metric

$$CA-SDRi = \frac{1}{|C \cup \hat{C}|} \sum_{k \in C \cup \hat{C}} P_k$$

C : set of target class
 \hat{C} : set of estimated class
 P_k : SDRi for the true positive classes or 0 for others