

Reviewer #4: This is a very interesting work in such a practically important area as voice recognition in a noisy environment. The work consists of three parts: a description of the innovative Bone Conduction Microphone System, a description of the performance of the resulting hybrid system for recording human speech, and improving the quality of recorded speech using modern neural networks. The work is done at a high scientific level and I have only a few small comments about the pictures.

Response: Thanks very much for the careful read and encouraging comments on our manuscript. We are very happy to revise the manuscript accordingly based on the constructive comments.

1. In Fig. 8, the designation Dev (Validation dataset) should be clearly deciphered.

Response: Thanks for the reviewer's kind comment. In Fig. 8, "Dev" has been revised to a clearer expression: "Validation dataset". The updated figure is shown as follows:

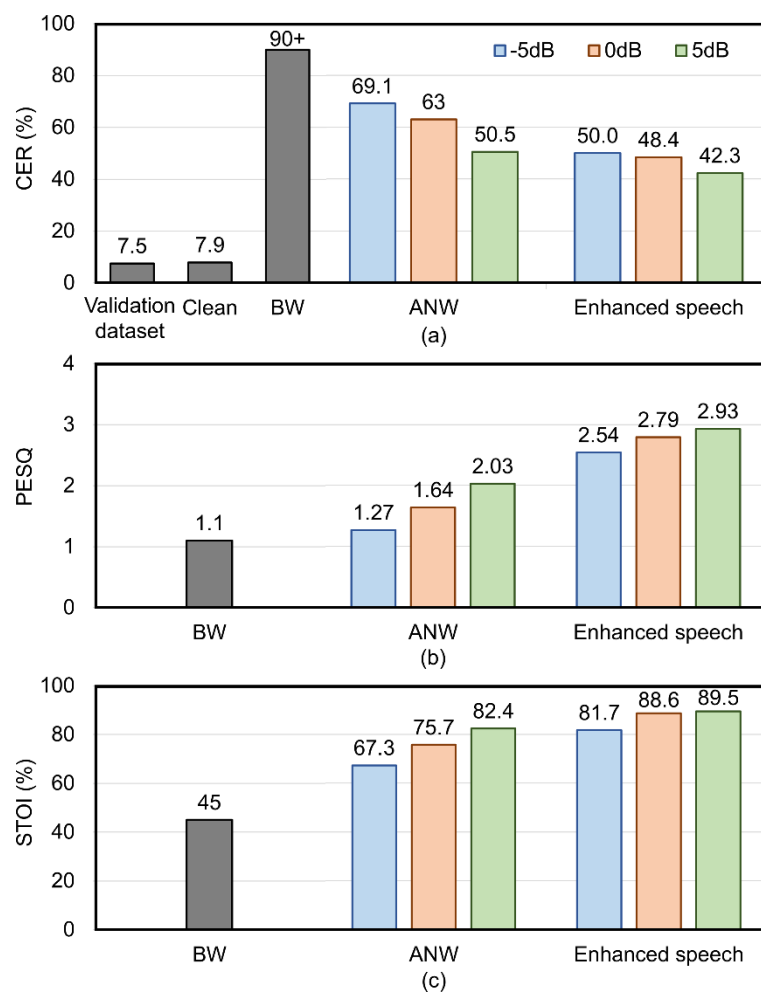


Figure 8. Comparison of (a) CERs, (b) PESQs and (c) STOIs for different datasets during hybrid training, including the validation dataset of the acoustic model, AW and BW datasets, as well as the ANW and enhanced speech datasets with various noise levels.

2. In Fig. 10(b), the designation "blow 5dB" is unclear.

Response: Thanks for the reviewer's kind comment. In Fig. 10(b), "blow 5dB" has been corrected to "Below 5dB". To make "Below 5dB" more clearly understood, ("Below 5dB" represents the average value of -5dB, 0dB and 5dB.)" has been added to the caption of Fig. 10(b) in the revised manuscript (Figure 10, Page 12). The updated figure is shown as follows:

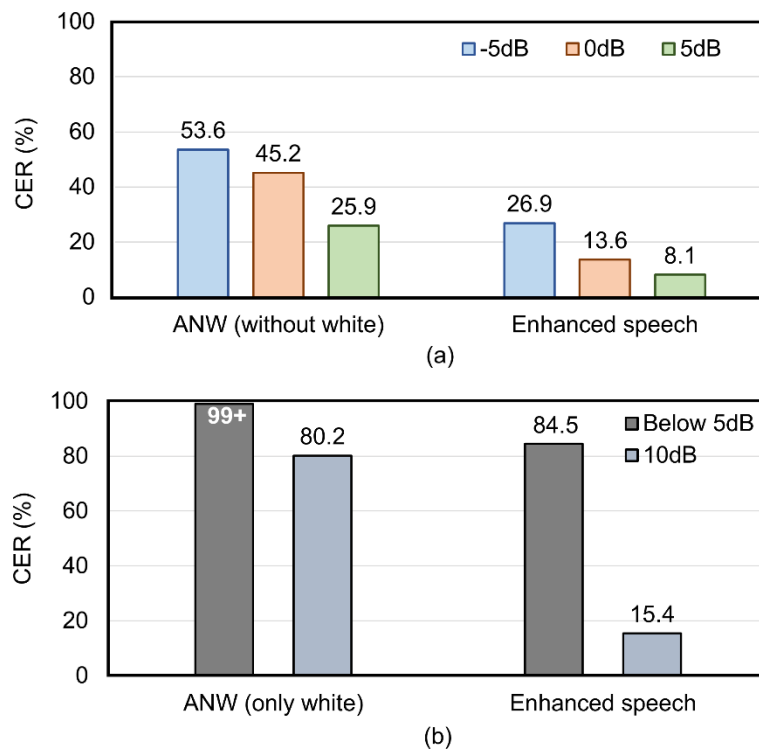


Figure 10. Comparison of CERs for different datasets during separate training. (a) includes the ANW and enhanced speech datasets that exclude white noise. (b) includes the ANW and enhanced speech datasets with only white noise. ("Below 5dB" represents the average value of -5dB, 0dB and 5dB.)

We hope that the reviewer finds that his/her concerns have been adequately addressed in the revised article, and in this response.

Thanks again!