COMBINED SPECTRAL SUBTRACTION AND WIENER FILTER METHODS IN WAVELET DOMAIN FOR NOISE REDUCTION

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Abstract :
The corruption of speech due to presence of additive background noise causes severe difficulties in various communication environments. This paper presents a novel noise reduction technique based upon a combination of cascaded spectral subtraction and Wiener filter methods in wavelet domain. The scheme's performance is illustrated by experiments in a noisy car environment, in comparison with spectral subtraction and Wiener filter.