Abstract

The performance of a noisy speech enhancement algorithm depends on the estimation of the priori signal-to-noise ratio (SNR). The most commonly used approach to estimate the priori SNR parameter uses Decision-Directed (DD), Two Step Noise Reduction (TSNR) and Harmonic Regeneration Noise Reduction (HRNR) method. Two-step noise reduction (TSNR) method eliminate this problem decision-directed method. Common short-time noise reduction techniques introduce harmonic distortion in enhanced speech because of the non-reliability of estimators for small signal to-noise ratios. A simple but effective harmonic regeneration method called Harmonic Regeneration Noise Reduction (HRNR) is used to overcome this problem.

References

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**Index Terms**

Computer Science  
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**Keywords**

Speech enhancement; harmonic regeneration SNR; noise reduction; TSNR; HRNR.