Abstract

This work introduces an efficient median filter based algorithm to remove unwanted transient in voice signal. The projected Spectral subtraction process implements a modified predictor (MP) for long term as the mainframe of the unwanted transient reduction process to reduce voice distortion due to nonlinear nature of median strainer. To minimize residual unwanted transients and voice distortion after the unwanted transient reduction, MP process estimates the features of voice more accurately. By ignoring unwanted transient presence regions in the pitch lag finding phase, the MP successfully evades being influenced by unwanted transient. A Spectral subtraction algorithm is compared with Modified predictor to reduce voice distortion in the inception regions. Investigational results show the system effect how much they eliminate transient noise while preserving desired voice signal.

References

Unwanted Transients Reduction in Voice Signal by Applying a Predictor and Spectral Subtraction Process


Unwanted Transients Reduction in Voice Signal by Applying a Predictor and Spectral Subtraction Process


Index Terms

Computer Science  
Signal Processing

Keywords

Voice Enhancement, Transient Noise Reduction, Modified Predictor, Norm Filter.