Abstract

The wavelet transform has become a powerful tool of signal analysis and is widely used in many applications which include signal detection and denoising. In hands free speech communication environments situation occurs that speech is superposed by background noise. Over the past few decades there is tremendous increase in the level of ambient environmental noise. This has been due to growth of technology. Noise is added by various factors like noisy engines, heavy machines, pumps, vehicles, over noisy telephone channel or using radio communication device in an aircraft cockpit. The wavelet denoising technique is called thresholding; it is a non linear algorithm. It can be decomposed in three steps. This paper is based on wavelet as denoising algorithm. Haar and Daubechies wavelets are implemented on speech signals and performance is evaluated.

Reference

Studies on Implementation of Wavelet for denoising Speech Signal

- Chris Perkins, Tobin Fricke, “Wavelets”, University of California at Berkely.

Index Terms

Telecommunication

Signal Processing

Key words

Speech Signal

Harr wavelet

Daubechies Wavelet

Spectrogram