Term Project Files

File name: lotr_distorted.wav File name: starwars_distorted.wav

Sampling frequency: 11025 Hz Sampling frequency: 11025 Hz

Number of samples: 92544 Number of samples: 203712

Clean/noisy threshold: 0.10 Clean/noisy threshold: 0.15

Notes

- The threshold values assume:
 - o 64 channels
 - o Power computation by blocks of 80 samples in each channel
 - O Power of each block = $\sqrt{\frac{1}{80}\sum_{n=0}^{79} b[n]b^*[n]}$
- Useful file i/o functions:
 - o x = audioread('filename.wav');
 - o audiowrite('filename.wav',output_array,sampling_freq);
- Root raised cosine filter: h = firrcos(N, Fc, DF, Fs)