Effect of Varying MFCC Filters for Speaker Recognition

Abstract

This paper presents speaker recognition system with emphasis on MFCC feature extraction scheme. The optimum number of MFCC filter selection is necessary for the performance of speaker recognition. In this paper, the number of MFCC filters are varied. The effect of varying filters on computational time required for training and testing phase is provided in this paper. The experimental results have been evaluated on the developed database of 75 speakers. The recognition rate achieved is 96% in case of 30 MFCC filters with approximate computational time (testing phase) of 79.66 seconds.

References

2. Tomi Kinnunen, Haizhou Li, “An overview of text-independent speaker recognition: From


Index Terms

Computer Science  Signal Processing
Keywords

Speaker Recognition, Feature extraction, MFCC, LBG algorithm, Euclidean distance