Abstract

This Paper finds the effects of windowing on the values of mean of first 12 MFCC features excluding energy coefficient for different gender. PRAAT software is used for conducting this experiment which uses Hamming windowing technique by default. Standard low values of window and frame size is used as standard for comparison of MFCC values at increased window and frame sizes by computing Average Deviation from standard values. The main aim of carrying out this experiment is to find out whether all 12 basic MFCCs vary uniformly or not when the window size and subsequently frame size are increased. To carry out the experiment, a speech database of 8 speakers (5 males & 3 females) is prepared. Each speaker recorded 15 sentences in two emotional states viz. Natural and Anger. The experiments are performed for 7 different cases of window and frame size.

References

- http://www. fon. hum. uva. nl/praat/

Index Terms

Computer Science

Signal Processing

Keywords
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<tr>
<th>MFCC</th>
<th>Window size</th>
<th>Frame size</th>
<th>Hamming Window</th>
<th>Mean</th>
<th>Average Deviation</th>
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