

ABSTRACT

The development of the latest learning facilities is limited to guide people to read well, not to correct the reading so that needed media worth to help the learning process hijayyah letters..Speech Recognition (SR) is a technique for converting from speech information to text. Mel Frequency Cepstrum Coefficient as one of the techniques of Speech Recognition has principles such as human hearing. MFCC method is important because makhraj letters hijayyah in the process of pronunciation using articulator and vocal tract that can be recognized by human hearing. Related research obtained 12 letters hijayyah which have high difficulty level in pronunciation that is, /ظ/, /ط/, /ض/, /ص/, /ش/, /ذ/, /خ/, /ح/, /ت/, /ق/, /غ/, /ع/. For the purpose of system accuracy it is tested using 3, 6, 9, or 12 channel (filter) MFCC. The use of the channel with the highest test data testing accuracy is used as a system reference. The highest accuracy get from using 12 channel MFCC with average accuracy 94.83%.

Key Words : *Mel Frequency Cepstrum Coefficient, hijayyah letters, channel (filter)*