ABSTRACTION

Audio signal segmentation and classification with high performance is required for audio-visual indexing because of the popular use of the Internet, higher bandwidth access to the network, widespread of digital recording and storage. segmentation of audio signal is a process break audio signal become some shareses with boundary two different audio signal, while classification of sinyal audio done to determine class of audio signal.

An audio signal segmentation and classification can be done using fuzzy c-means clustering. The possibility that the audio-cut exists is represented by the fuzzy number, and thus we can detect audio-cuts accurately. After the segmentation, the audio signal is classified into audio classes. This classification results are utilized for verification processing of the audio-cuts, so that segmentation and classification errors are reduced.

In this final project an audio signal segmentation and classification using Fuzzy c-means clustering method had been developed able to yield classification and segmentation with better accuracy.

***Keywords** : audio-cuts, audio signal, audio class, audio segment, Fuzzy c-means clustering*