ABSTRACT

Human emotions in general can easily be known by looking at facial

expressions that can vary based on one's feelings. Many studies have done emotional

detection based on facial expression. In addition to face detection, human emotions can

also be detected by the sound produced by the speech signal.

In this final project will be done emotion detection in humans through voice

signal using fiture extraction with Mel-Frequency Cpestral Coefficients (MFCC). Then

use ANN-SOM (Artificial Neural Network-Self Organizing Map) to get the

modeling. The detected emotional state will be the state that the K-Nearest Neighbor

(KNN) method can use as a state determinant classifier. The output of emotional

detection is a condition where the test of speech signal is classified into 4 classes of

parameters ie neutral, sad, happy and angry.

Keywords: Human Emotions, Mel Frequency Cpestral Coefficients, ANN-SOM

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