A B S T R A C T

Speaker Recognition is a technology to recognize human voice that can then be used for various purposes of the problem in the digital era. Sound is one of human identity (biometrics). Every human voice has the characteristics of different forms of sound, sometimes partially imitating a person's voice, although not identical. Sound that was previously recognizable to humans, for now can be translated into a data that is understood by the computer.

In this final project has made system implementation and analysis for human speech recognition, by using Mel Frequency Cepstral Coefficients method for characteristic extraction process and Artificial Neural Network Backpropagation for classification process.

This system will process the human voice pattern results from the train data and test data. Where the training data is stored based on the ownership of the voice of someone who has been recorded. Then tested directly to recognize the ownership of the human voice from the test data record. And got the accuracy level of trainer data and test data for human voice recognition by 74%..

Keywords: *Mel Frequency Cepstral Coefficients, Artificial Neural Network, Speaker Recognition*