

ABSTRACT

Basically, each individual produces a different sound, although one can imitate the sound, but the sound produced is not identical with that inimitable voice. Biometric system is a system for the identification by analyzing the physical characteristics and behavior.

This Final Project is to create a system of micro computer based voice security that is implemented into the key. This Final Project using MFCC as feature extraction and K-NN as classification characteristics.

In this Final Project has managed to make the speaker recognition system with the best accuracy rate of 87.5% and 1.80277 seconds using $K = 5$ on implementation of unlock using voice.

Keyword : MFCC (Mel Frequency Cepstral Coefficient), KNN (K-Nearest Neighbor), Speaker Recognition, Biometric.