

ABSTRACT

Along with the development of ease of data exchange through various media, various techniques of hiding and inserting message is also developing, one of them is steganography. In this very rampant era with cybercrime, there is a concern that steganography can be misused by some people. For that reason, a method that can supervise a process of data distribution is needed, we called it steganalysis.

In this final project, it has been done a system that can steganalyze a speech signal with .wav format by analyzing the values or characteristics of a speech file. The method that used to extract the features of speech signals is Mel-Frequency Cepstral Coefficient (MFCC) and the method that used to do the feature selection is Linear Discriminant Analysis (LDA).

The output of this system is a condition that states the speech signal is the original speech signal, speech signal that contains hidden message, or noise insertion. The best performance of this system is 82.86%, achieved with conditions: hamming window, overlapping, 30 millisecond frame length, and the number of mel-filter bank is 20.

Keywords: *steganalysis, speech signal, wav, Mel-Frequency Cepstral Coefficient, Linear Discriminant Analysis*