

ABSTRACT

The techniques to hide messages in a matter of data has grown, one of them is steganography. The rapid development of steganography causes the need for a way to monitor the data exchange. The way it can be done using methods steganalysis. Steganalysis purpose is to determine whether the object contains a secret message or not. Steganalysis is one solution that can be used to monitor the distribution of information which has a secret message.

In this final project will be carried out analysis of the statistics values possessed an audio file which has the format *.mp3 which includes grades : standard deviation , mean , kurtosis and skewness . These four values of the statistics used to look at the value of the distribution of audio files that have the format *.mp3 original and which was inserted message (stego file) with LSB insertion process .

System outputs is a condition that decide an audio files contain or not contain secret message. Results obtained 40%-60% for one characteristic, 30%-67.5% for two characteristic and 40%-48.3% for three characteristic. Accuracy obtained by applying the combined statistical characteristic values on the audio file are: standard deviation, skewness and kurtosis are used as inputs in the process of classification of multiple linear regression. Maximum accuracy of 67.5% is obtained when the characteristic used is a combination of standard deviation and skewness.

Key Words : Steganalysis, LSB, mp3 audio, statistics, multiple linear regression