

Abstract

Steganography digital data nowadays are not only used for the purposes that are not illegal but also has been used as a way to commit a crime. For this reason there needs to control the exchange of data to indicate whether an object contained in a secret message that is dangerous or not. Steganalisis is one of the methods in the computer forensics is used to detect whether an object contains a hidden message or not.

In the study conducted by the Min Ru audio steganalisis developed based on content distortion measure. And some are focused on mel-cepstrum that developed by Kraetzer.

In this final project will be carried out steganalisis on audio media by using Fourier Spectrum and made the development by adding a combination of feature-sets to determine which combinations are most affecting the detection and implement methods of framing that divides the audio samples into sections to examine every part of the sample being the location message storage. Then Support Vector Machine (SVM) is used as the classifier to determine an indication of stego audio.

By applying this method is able to detect stego built audio system with highest detection accuracy is 78% but AUC unsatisfactory only 51%.

Keywords: *Steganography, steganalisis, Fourier spectrum, spectral derivatives, SVM.*