

## Abstract

Nowadays, with little help from technology we can embed secret message into any digital media. *Steganography* is one of the technique that can be used to embed secret message into digital media. Sometimes these *Steganography* technique is used to do some illegal sharing activity. An application that is capable of detect this kind of secret message, are required in many cases. This application can be used to prevent the secret message from being spread publicly.

Steganalysis is a science techniques used for detecting any steganographic message in any digital media. One of the steganalysis method is *Binary Similarity Measures - Support Vector Machine*. This method is classified as a blind steganalysis technique which means able to detect all steganography technique with high accuracy.

Based on the testing result, the *Binary Similarity Measures - Support Vector Machine* algorithm has an accuracy value reaching up to 77,28% for detecting LSB method and 76,49% for detecting F5 method. This steganalysis technique also can be used for various digital image format like JPG and BMP. The accuracy for JPG is 77,02% and for BMP is 76,75%. And more bigger the embedded message filesize it will be easier for this technique to detect the message.

**Key Word:** Image, *Steganography*, *Steganalysis*, *Binary Similarity Measures*, *Support Vector Machine*.