

ABSTRACT

The development of Internet technology makes rapid communication and exchange of information between the sender and the receiver becomes faster and easier. But long-distance data transmission via radio waves or other media, especially the internet, which allows public use so others do the insertion of confidential data that should not be sent. It should be realized that there are many threats to the security and confidentiality of data that would bother us. The number of intruders (hackers) and destroyer (cracker) that abuse steganographic technique is getting bigger in conducting secret communications between terrorists or criminals. To that end, it has developed the science of detecting steganography, which steganalysis. Steganalysis is a technique used to detect the presence of hidden message of steganography.

In this final project, have been simulated on the type of *blind steganalysis* that can detect objects hidden messages with the method used is DWT (Discrete Wavelet Transform) and the classification used KNN (K-Nearest neighbor). The data used in the form of two-dimensional digital image format *. Bmp and *. Jpeg.

From the test results that have been done, steganalysis system able to detect the existence of secret message with the results overall accuracy is about 92.91%. The system is also able to distinguish between a stego image and stego image instead.

Keywords : *steganalysis*, DWT, KNN