

## **ABSTRACT**

Nowadays information exchange using radio waves grows rapidly, with radio waves information can be delivered very fast to the receiver. But it also has its side effects, especially internet based information exchange. Steganography is a form of art and science to insert confidential information into a certain media in order to disguise the information existence so it is not possible for unwanted external party to access it. The information can come in many forms including text, image, and audio.

Voice is one of the most important aspects of communication; with it we can recognize one's identity. This thesis designed a system to disguise a voice message which the receiver can verify the voice to recognize an identity. MFCC method is used to verify and Nearest Neighbor method is used to classify the voice after. While no method are used for the inserted audio, DCT method is used for image cover.

The results of this final project are the secret image is sent successfully to the receiver and voice verification has been successfully carried out and an average accuracy of 6 experimental verification of noise gets a higher value if the testing sample results steganography tested with training data results steganography is 85% compared to the data steganography test results tested with the original voice training data is 77.91%

Keywords : Steganography, voice verification, MFCC, Nearest Neighbor, DCT