

ABSTRACT

Steganography is the art and science of hiding messages, so the message to the recipient without someone other than the sender and receiver are aware of the existence of the message. Today steganography is not only used by the military, but also is used by the industry with the aim of keeping authentication products as well as many other functions. Steganography can use a variety of media as a place to hide secret messages include images, audio and video.

In this final project, it has been simulated text to video steganography using biased shift of quantization index. This method inserts bits of information by shifting the corresponding frequency transform coefficient based on the quantization index and the value of information bits so that the information bits are inserted by the method of shifting the coefficient of DWT (Discrete Wavelet Transform). This method is used for the process of stego embedding so that the embedded information can not be detected.

The results that have been obtained are the secret message is sent by the sender has minimal BER to 0. Tests performed is included robustness of stego video on Additive White Gaussian Noise and compression. Beside that the embedding of text to this video produced good quality which video frame has SNR value greater than 30 dB and MOS value between 4.46 until 4.6 which is the average of the results form a survey to 30 observers.

Key words : steganography, biased shift of quantization index, DWT