

ABSTRACT

Security and furtiveness are very important as long as information digital exchange growth. A technique which can secure it like steganography is needed to ensure the data are safe. Steganography is a method for hiding message into media digital like audio, video, or image. Hopefully, this method can effectively avoid theft and fraudulent misuse of data so the information will arrive safely to the recipient.

In this final project, steganography system will be made to embedding a message (.txt) into a uncompressed video (.avi). before embedding step, audio, and video signal must be take framing step first.

Selection of video frames inserted a secret message is determined based on the detection of audio signals using Zero Crossing Rate (ZCR) on silence region. The method used to insert the message is Discrete Wavelet Transform (DWT).

The result of this research is a system that can insert a text message into a video. For analysis of the system that has been created to analyze subjectively and objectively. Subjectively by using MOS parameters and objectively using MSE and PSNR parameter. This system has a performance good enough for getting the value of 64.2775 db PSNR and MSE smallest value is 0.0243 and MOS is 3.8

Keywords: Steganography, Discrete Wavelet Transform, Zero Crossing Rate, Silence, video