

ABSTRACT

Nowadays video technology is no stranger to the development of multimedia. This technology can present information in the form of images, audio, and text all at once. Therefore the use of video technology has been applied in various fields such as education, education, health and so forth. Through its development, the dissemination of information through video technology can provide benefits while providing opportunities for illegal video dissemination or piracy.

Watermarking is one way to protect the copyright of multimedia products by inserting additional information in the video host signal, where the information mark inserted is invisible, difficult to release or change. In this study, a video host with AVI format will be distributed to messages that contain images that are compressed PNG format (CS). The method to be used is DWT-DCT-SS. After that the video will be entitled to approval for approval.

Based on system testing the embedding process is in the first frame, using the blue layer, LL sub-band, mother wavelet db 1, and measurement rate 80% produces an average PSNR value of 86.9216 dB; MSE of 27.39059667; and BER 0.162519. This system can defend well against Noise Gaussian Blur attack.

Keywords: Video Watermarking, Compressive Sensing (CS), DWT-DCT-SS