

ABSTRACT

One method for securing confidential data on the form of multimedia data is to use steganography techniques. Steganography is a method of embedding information into multimedia both images, video, and audio. Where information superimposed on it can not be perceived by the senses of human existence. The type of information that can be inserted image, text, audio, and video.

One base insertion in the original image information is to use the discrete wavelet transform. The discrete wavelet transform is a wavelet transform method that divides the image into subband which has high and low frequencies. The discrete wavelet transform is used because it is very attractive, efficient in computation process and to enhance resilience of the information inserted.

In this final project steganography simulated with random quaternary segmental cropping method based on discrete wavelet transform. In this simulation, the information inserted in the form of an image / picture. The method of embedding information in the form of image used is random segmental quaternary cropping, where the information in the form of image will cut first into four equal parts, and then it will be insert randomized into the original image. The result is the system which can inserted a confidential information in the form of image, and the information can be extracted back with the good enough quality.

Keywords: steganography, discrete wavelet transform, random segmental quaternary cropping.