ABSTRACT

Steganography is a method of cryptography that is used to hide data or information on a digital image so that the data sent is not identified by an irresponsible party.

In this final project, a steganography application can be inserted that can insert messages and extract them again using two choice methods where the message is inserted in the form of text and image storage media using the TIFF format.

After successfully implementing the system, several tests were carried out on steganography images, namely image quality testing based on MSE and PSNR parameters, testing the time of insertion process and image extraction and testing the maximum number of characters that can be inserted into the image. From several tests that have been done, the results obtained where the least significant bit MSE and PSNR methods are better compared to spread spectrum methods, where the average value of PSNR is 37.79451 dB for the least significant method and 32.35604 dB for the spread spectrum method.

Keywords : Steganography, Least Significant Bit, Spread Spectrum, TIFF.