

ABSTRACT

Technology has been developing rapidly nowadays. Eventually, digital video transmission through internet has become a common think. But sometimes message sent by sender is hopefully not read by other irresponsible receiver. The contents usually are secret and private. So, sender usually sent a hidden message. And to overcome that problem, a video steganography is developed to insert a hidden message to video file.

Steganography is a technology to insert a hidden message in a way that only sender and receiver can see the message. The word “steganography” comes from Greek word “steganos” which means hidden, and “Graphein” which means write.

Information insertion is used in this final project using video steganography technique and the implementation to AVI format video using LSB and SSB method. This information insertion is using PRNG (Pseudo Random Number Generator) as a method of randomization. The outcome PRNG (Pseudo Random Number Generator) will decide which method will be used. In LSB method, Information insertion will replace the least significant Bit of the original video. SSB-4 method However, in SSB-4, information insertion will replace the fourth bit of the original video.

In the result, different method is used to insert a hidden message in digital media. The message can be hidden by using a method to insert in the lowest bit, LSB (Least Significant Bit), or in the fourth bit SSB-4 (System of Steganography using Bit 4). In 24 bit bitmap file, every pixel in the picture consist of three different color, Red, Green, Blue (RGB). Each pixel is form by 8 bit(byte) from 0 to 255 in biner format 00000000 to 11111111. This application is made with matlab (R2009a).

Keyword : Stego, Steganography, LSB, SSB-4, Mixed.