Abstract

Steganography Mp3 Audio File Security Methods For Text Use Least Significant Bit (LSB) Based Pseudo Random Number Generator (PRNG)

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At this time the data is an important thing and is very likely to be used by people who are not responsible. Developments in science and technology is very rapidly as more techniques that can be used for data security such as encryption, watermarking and steganography. Steganography is the science of the insertion of one used to secure data, that the data not easy to known by others. LSB (Least Significant Bit) is one of the frequently used steganographic algorithm. This method is widely used to insert a secret message to the media, such as images, sound, video and text. The means used by the algorithm to manipulate the LSB is the last bit so it does not create a lot of changes in the media container. One medium that can be used for steganography is an MP3 audio media. The software is built using VB.Net programming language to secure a variety of data such as text into MP3 audio media by using LSB algorithms and methods PRNG (Pseudo Random Number Generator) to complicate the process of tracking. The software is built using the Waterfall Model of software development. The result of the development of this software has been able to perform the insertion and disclosure of confidential message text into MP3 audio files by using an algorithm based PRNG LSB.

Keywords :
Steganografy, LSB, PRNG, MP3, VB.Net, Waterfall Model