

ABSTRACT

With the rapid development and wide use of Internet, information transmission faces a big challenge of security. Steganography, cryptography hashing and access control are different techniques which are used for database security. Watermarking is one of the accurate techniques for data security. Watermarking used in different fields like images, audio, video, text. Image is used for image security. Digital watermarking is a technique which allows an individual to add hidden copyright notices or other verification messages to digital audio, video, or image signals and documents. There are different existing methods which are used for image watermarking with LSB algorithm.

Aim of this report is to present design and implementation of invisible color image watermarking using LSB technique with random mapping function. Experimental results show that the quality of the watermarked image higher in the case of the proposed scheme than using the LSB technique. The algorithm of the technique implementations in Java and test outcomes are presented to focus requirements in invisible technique.