

Encrypting Image by Lossless and Reversible Data Hiding using Cryptography

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Abstract: *This paper proposes a lossless and reversible data hiding scheme for images by using chaotic system with the help of public key cryptography. In this system original grey scale image will be encrypted using shuffling and scrambling using double encryption via chaotic system. And encryption will not affect original grayscale image. With the help of this technique, a receiver may extract a part of embedded data before decryption, and extract another part of embedded data and recover the original plaintext image after decryption.*

Keywords: Encryption, Decryption, Chaotic System, Shuffling, Scrambling, etc.

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