MODIFIED LEAST SIGNIFICANT BIT BASED ON MATRIX PATTERN ON RGB IMAGES FOR IMAGE STEGANO-KEY

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ABSTRACT

Steganography is the hiding of a secret message with just an ordinary message and extraction of it from source to destination. It takes the process of Cryptography further advanced by hiding an encrypted message so that no one suspects it exists. It is just hidden data within data. This technique can be applied to images, an audio or video file. Data hiding embeds data into digital media for the purpose of Identification, annotation and copyright. Several constraints affect this process: the quantity of data to be hidden, the need for invariance of these data under conditions where a "host" signal is subjected to distortions, eg. Lossy compression, and the degree to which the data must be immune to interception, modification, or removal by a third party. This technique is evaluated in three applications: Copyright protection, tamper proofing, and augmentation data embedding. The main goal of data hiding is to hide a message m in some audio or video (cover) data d, to obtain new data d', practically not distinguishable from d.

KEYWORDS: *Steganography, Cryptography, Watermark, LSB, Secret message, Encryption, Decryption, Stego-key.*