

Abstract Details

Title: Three Layer Architecture for DNA based Image Steganography

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Abstract: This paper discusses 3-layer architecture for the secure transmission of a message. The input message is compressed by using the dictionary based LZW compression. Then the compressed data is encrypted by light weight encryption technique i.e. one time pad. Then the encrypted message is coded as DNA codon by using DNA cryptography. The DNA codon of approximation part of the image is generated and the message DNA codon is embedded into image codon. This technique shows the high capacity and the high security analyzed over various images with different messages.

Keywords: LZW, OTP, DNA, DWT.