



RESEARCH ARTICLE

A Novel Steganographic Approach for Enhancing the Security of Images

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Abstract— Internet users need to store, send or receive the secret data. The common way to do this is to transform the secret data into another form by the process called encryption. Here, the main drawback is if enough time is given the enemy is allowed to intercept and modify the messages. In order to avoid this we use the technique called steganography. Steganography is the method of storing information in a way that hides that information's existence and it can be used to carry out hidden exchanges. Reversible data hiding is a technique to embed additional message into some distortion-unacceptable cover media, in a reversible manner so that the original cover content can be perfectly restored after extraction of the hidden message. This technique is commonly used for ensuring the secrecy of medical images, military images etc transmitted through the internet.

Key Terms: - Least Significant Bit (LSB) steganography; Hiding Behind Corners (HBC); Pixel-Value Differencing; security; steganalysis; statistical attacks

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