

243. AN ENHANCED STEGANOGRAPHY METHOD FOR INFORMATION HIDING

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Now-a-days Digital communication is a fundamental element for infrastructure. To communicate the information from one place to another place such as text, image, audio, videos data internet is necessary. There are two major techniques available are Cryptography and Steganography. Steganography is a system of information that can be communicate in the channel by secret way in another secondary information with changing the quality of information. In this paper, LSBs of some pixels of cover image are inverted if they occur with a particular pattern of some bits of the pixels. In this way, only less number of pixels are modified in comparison to LSB method. PSNR of stego image is improved due to number pixel value are modified. For extraction purpose, the bit patterns for which LSBs are inverted need to be stored within the stego image. Steganography technique is analyzed using inverted LSB method and embedded image is adjusted based on pixel value for different substitution values. Bit inversion technique provides better improvement compared to LSB steganography qualitatively and quantitatively in terms of MMSE and PSNR.

Index Terms—Least Significant Bit, Steganography, cover image, Inverted Least Significant Bit

Journal of Science and Innovative Engineering & Technology