Analysis and Refinement of Steganography Techniques

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Abstract

Steganography is an art and technique of hiding data in some media i.e image, audio or video file. For hiding data various steganography techniques are used. This paper is an effort to provide comprehensive comparison of these steganography techniques based on different performance metrics such as PSNR, MSE and Embedding capacity. [16] The embedding capacity of Jpeg-Steganography is very less than spatial domain techniques. The spatial domain techniques provide high PSNR, high perceptual quality and high embedding capacity but these not provide robustness. On the other hand transform domain provide robustness while providing very less embedding capacity, low PSNR and low perceptual quality.

References

16. Sangeeta Dhall, Bharat Bhushan and Shailender , “An In-depth Analysis of various Steganography Techniques”

Index Terms
Computer Science Security
Keywords

Steganography, Frequency Domain, Spatial domain, LSB method, PSNR, MSE