Abstract

Steganography allows data secrecy of any form inside any cover type without getting identified by any third person. Not only hiding the data could secure the secret instead applying any security/encryption technique would ensure its full secrecy and security. This paper presents two audio data hiding scheme inside a cover video by using LSB replacement technique for steganography. The acoustic data is encrypted by using XOR method before embedding it inside LSBs of original video. The secret audio data bits are inculcated inside a random frame and also in all sequential frames of cover video. Comparison among the two embedding schemes is done in this paper. Comparative analysis among the approaches is done on the parametric grounds of steganography. The results show that the randomized embedding technique is better than the sequential embedding technique on the security grounds and require less time for embedding and extraction.
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Index Terms

Computer Science

Security

Keywords

Least Significant Bit (LSB), XOR, PSNR, MSE