Steganography and cryptography are two different techniques for hiding secret data. If we provide the dual data security using the combination of both techniques such that steganography and cryptography. The cover image is encrypted through the Advanced Encryption Standard (AES) encryption with CBC mode. Encrypted data (secret data) can be hide using the Extensible Metadata Method (XMP) is performed on the cover image. The cryptography algorithm Encrypt data with the help of a key which can be used for the authenticate purpose. Only an authenticate user can decrypt the secret data because of the key must be same if not then data will not be decrypted. The combination of the both these algorithm will provide huge amount of security, robustness, integrity and capacity of embedding the data.

References

Steganography and Steganalysis through XMP


Index Terms

Computer Science Security
Keywords

Steganography, Cryptography, AES Encryption Standard, Extensible Metadata Platform