GUI based Approach for Data Encryption and Decryption on MATLAB Platform

Abstract

In the era of digital technology, image (data) security has been a very vital concept for its practical applications. With the use of ‘Steganography’ a technique of hiding a special(secret) data (message) in any cover object while communicating between the transmitter and receiver, security of secret data always has been a critical factor since fast times. In this message work, a Hash – LSB based embedding of the encrypted text. RSA encryption is performed to provide further enhanced security data. Decryption of image steganography is done using RSA decryption algorithm, which helps to commute another cycle of security process implementation. Image steganography has been implemented using an Hash-LSB encoding and decoding RSA message or file encryption and decryption and chaotic used an image encryption decryption algorithm.

References

1. Anil Kumar, Rohini Sharma, “A Secure Image Steganography Based on RSA Algorithm


Index Terms

Computer Science Security
Keywords

Cryptography, Hash LSB encoding, RSA Encryption, RSA Decryption, Steganography.