Abstract

Security is a major concern while sending and receiving sensitive data over web. This paper is aimed to design and develop a method to address this problem. The proposed method is based on Blowfish algorithm with enhanced features. It has been enhanced with a supplementary key approach to strengthen the security of image or any sensitive data which are communicated electronically. The proposed algorithm is developed and tested with different data sets. The performance of the proposed methods is measured in terms of time, space complexity and also security. The results are recorded and show better performance.

References


29. Song, Z., et.al, “A secure and efficient fingerprint images encryption scheme”. In Young Computer Scientists, 2008. The 9th International Conference for (pp. 2803-2808). IEEE.


32. Cryptography www.cryptographyworld.com/concept.htm


Index Terms

Computer Science

Algorithms

Keywords
Enhanced Blowfish Algorithm for Image Encryption and Decryption with Supplementary Key

Cryptography, Blowfish, Encryption, Decryption, Secret key