Abstract

In today's world of growing technology, network security and protection of data have been of great concern. Steganography is the art of hiding a private message within a cover file in such a manner that third party cannot know the existence of the hidden message. Steganography has many different forms like LSB, transforms, masking, and filtering technique. Enhanced LSB technique is main concern of this paper. The implementation in this paper is concern with five features. First one is deal with the generation of truly random and secure encryption key, second feature deals with encrypt the secret message using AES algorithm, third feature deals with generation of permutation technique to distribute the encrypted message bits randomly, fourth feature dealing with generation of random pixels number in order to hide the secret encrypted message bits inside them, finally the fifth features id dealing with the hiding the random ciphertext bits within random image pixels. This paper proposed an enhanced hiding system with analysis of the proposed system.

References


**Index Terms**

Computer Science Security

**Keywords**

Information hiding AES steganography LSB ciphertext