Abstract

It is of great importance over a past few years, the increasing concern to preserve the privacy of biometric data over personal information that is stored in computer systems. It mostly has increased interest in data security. For possible use in biometric identification and protection, in this paper it applies visual cryptography (VC) which is a perfectly secured method of maintaining image security. The basic concept of visual cryptography is to divide secret images into random shares using key and decryption is performed by superimposing the shares using the similar key which is used at encryption side. In this process it required special software for cryptographic computations and in this paper it is implemented using mat lab 7. 9. A modified version of pixel sieve method is proposed in this paper for iris images to achieve more security than existing pixel sieve method. It is the modified version of pixel and is based on key shifting scheme. The simulations results show that the quality of the encrypted and decrypted images is better than existing pixel sieve method.

References


An improved pixel sieve method for visual cryptography by Vaibhav Choudhary et al.

Biometric data security using recursive visual cryptography by Lakshmi Madhuri K et al.


**Index Terms**

- Computer Science
- Security
Keywords
Visual Cryptography (vc)  Iris Image  Dct  Dht  Key Shifting  Encryption  Decryption