**A Secure Approach for Data Hiding Using Visual Cryptography**

**Abstract**

Visual Cryptography is a special type of encryption technique to obscure image-based secret information which can be decrypted by Human Visual System. There have various approaches developed for encrypting image. The former being encrypting the images through encryption algorithms using keys, and the later approach involves dividing the image into random shares without the use of keys. But unfortunately there has heavy computation cost and key management and the poor quality of the recovered image from the random shares limit the applications. In this paper we propose a novel approach with the use of random share and key share. The approach employs generating two shares of the original image. One random share and the other key share. The original secret image can be recovered from the two shares simply by Xoring the two shares without any loss of image quality.

**Keywords:** Visual Cryptography, Overlapping, Shares, Image Encryption, Color image, Grayscale Images.

**SYSTEM ANALYSIS**

**Existing System**

The existing system is Cryptography, Cryptography hiding data from attackers by using some techniques. Techniques are

* Encryption & Decryption

**Disadvantages:**

There is only chance of hiding the data from attackers by method encrypt the image, the main disadvantage the picture quality is not good at reconstruction side and It is easy to decrypt the data by attacker side.

**Proposed System**

A Secure Approach for data hiding by using visual cryptography this proposed system will solve the existing problem by encrypting image.

**Advantages:**

A Secure Approach for data hiding by using visual cryptography this proposed system will solve the existing problem of encrypting the data and it decrypt or reconstructs the original image without any loss and quality.

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