Abstract

Visual Cryptography is a special encryption technique to hide information in images in such a way that it can be decrypted by the human visual system. It is a secret sharing scheme which uses images distributed as shares such that, when the shares are superimposed, the original image is revealed. In the last decade, Visual Cryptography has evolved as an entity which divides the data into different shares and then embedding is done. This technique is also less secured. In this paper, we propose an encryption algorithm, which is applied on the different shares of the images. Before embedding the image into the cover image, shares are also encrypted for which the size of share images and the recovered image is the same as for the original secret image. Pixel expansion and the quality of the reconstructed secret image has been a major issue of visual secret sharing (VSS) schemes. The proposed scheme maintains the perfect security and the size of the original image.
Analysis and Design of Multi Share Secret Message Sharing using Visual Cryptography


**Index Terms**

Computer Science

Security
Keywords

TIFF  secret sharing  Visual Cryptography.