Abstract

Conventional cryptography is a method of transforming message into an unreadable format called as cipher text. This cipher text can easily be shared over the network without fear but anyone can get message easily by applying key on cipher text. Sharing and delivering secret images over the network is also known as a visual secret sharing (VSS) scheme. However, the main drawback of VSS scheme is that it is experience from high transmission risk due to the shares are like noise. As the shares are like noise which in turn lead to cause the attackers attention. To solve this problem, mechanism is developed called Natural image based visual secret sharing (NVSS).

This paper is motivated by need of novel mechanism to transfer the secret images over network. In proposed work for regeneration of secret image a generated noisy share, natural images and seed (needed for random functions used) are required at the receiving end. Though generated share is noisy and its contents are not recognizable, overall structure may be visible in some cases. So data hiding is should be performed on generated share to hide that structure.
(texture) in noisy share.

References


Index Terms

Computer Science | Image Processing

Keywords
Visual Secret Sharing Scheme: Natural image; Encryption; Steganography.