Abstract

In this paper a new visual cryptography scheme is proposed for hiding information in images which divide secret images into multiple shares. Secret information can be retrieved by stacking any k number of decrypted shares. This paper introduces the novel method of visual information pixel synchronization (VIP) and Modified threshold error diffusion to attain a color visual cryptography encryption that produces meaningful color shares with high visual quality. VIP synchronization retains the positions of pixels carrying visual information of original images throughout the color channels and error diffusion generates shares pleasant to human eyes. Error diffusion method uses modified threshold value to improve the quality of shares and
decrypted secret image. This paper also uses edge sharpening filters to enhance the edges of images.

References


Index Terms

Computer Science Cryptography

Keywords

Visual Cryptography (vc) Meaningful Shares Digital Halftoning Error Diffusion Secret Sharing