Abstract

Nowadays, information hiding techniques have been beneficial in a many application areas, there are many techniques to achieve hiding data, and hiding text inside image is one field of them. This work shows how the edges of the images will be detected by scanning method using 3x3 window and then the secret message is canceled in edges of a gray scale images (Lena and goldhill) which acts as a cover images using Least Significant Bit (LSB) based Sobel edge detection algorithm. The algorithms are implemented using MATLAB R2014a. The design achieved high embedding capacity and high quality of encoded image. A Four Gray Scale input images with size 1024×1024 is used as a cover image and massage with length 500 character as a secret massage in this work.

References


**Index Terms**

Computer Science  
Security

**Keywords**

Information Hiding, Steganography, Cover image, secret message, LSB.