**Fast Image Encryption based on Random Image Key**

**ABSTRACT**

Internet plays an important role in circulating a huge amount of multimedia. An example of this multimedia is the image. To send an image over the network secretly, the sender tries to find encryption algorithm to hide image information. This paper aims at designing an efficient encryption algorithm for color image using random image key generated with minimum time execution for encryption and decryption operations. XOR operation is used here to make more diffusion of the encrypted image to maintain a higher level of security upon transference than it is with the original image.

***General Terms*** Image Processing, Security.

***Keywords*** Encryption, Decryption, Random Key, XOR operation.