**COMPRESSION OF ENCRYPTED IMAGE USING WAVELET TRANSFORM**

**ABSTRACT:**

 In recent years, compression of encrypted image has attracted significantly towards research interest. This paper proposes an approach to compression of encrypted image based on wavelet and random permutation. Original image is first encrypted using random permutation then compressed using wavelet. The primary focus of this work is on the practical design of a pair of image encryption and compression schemes. The process of compressing the encrypted images is nearly same as compressing unencrypted image. The receiver does decryption and enhancement process. Decryption process is same as encryption process but for enhancement we have used median filter. Thus this paper focuses on achieving better security and improved transmission rate.

**Keywords:**

 Wavelet ,Image compression, random permutation, Image encryption.