

## **WAVELET BASED PARTIAL ENCRYPTION OF COMPRESSED IMAGES**

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### **Abstract**

In this paper we present new partial Image encryption algorithms of compressed images. In the compression step, the advanced wavelet coding schemes, and the Embedded Zerotree Wavelet (EZW) algorithm are used. In the encryption step, the Advanced Encryption Standard (AES), and Permutation cipher are used.

Only part of the original data is encrypted for four different grayscale images and four color images of size  $(256 \times 256)$  pixels, resulting in a significant reduction in encryption and decryption time.