

IMAGE ENCRYPTION AND COMPRESSION SYSTEM USING HAAR, DAUBECHIES AND COIFLET WAVELETS

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ABSTRACT

There has been lot of development in the field of multimedia and network technologies. With the development of multimedia and network technologies, the security of multimedia system becomes most important part in the internet when the data is transmitted over the network. If encryption is not performed then there may be possibility of stealing the information. Image compression is also essential where images need to be stored, transmitted or viewed quickly and efficiently. Therefore, there is need of system where encryption is done prior to the image compression. The main problem is how to execute image encryption and compression algorithms in pair. This paper proposed an image encryption method that is operated with random permutation method and image compression algorithm using Haar, Daubechies and Coiflet wavelet transforms that can be used efficiently to compress the encrypted image.

KEYWORDS: Compression, Coiflet, Daubechies, Encryption, Haar, Random Permutation