Abstract

Image compression has become vital in today's scenario because lots of digital images have become spread over the servers which uses lots of space. The size of image files increased in the past 15 years due to the rapid technological advancement and increasing quality of images. In such conditions, it has become significant to use an efficient algorithm to compress images in such a manner so that it gives better compression with minimum loss in quality with respect to different quality measures. The proposed image compression method is implemented in frequency domain using wavelet transform. In this paper, Haar, Symlet, Coiflets, reverse biorthogonal, biorthogonal, and Daubechies wavelets are analyzed for the compression. There are mother wavelets, each of them is analyzed with respect to image compression scheme and resulting wavelets are given as the output which wavelets are resulting in good compression.

References

1. Navita Palta, Neha Sharma 2015, 'Image encryption and compression using haar and


Index Terms

Computer Science  Image Processing
Keywords

Discrete Wavelet Transform, Haar, Symlet, Coiflets, orthogonal, bi-orthogonal, Daubechies wavelets, MSE, PSNR, Universal Quality Index, NCC, NAE, Structural Content