Abstract

With significant increase in desire of multimedia machinery, the complication of strained bandwidth of a network and cache capacity arises. In fields such as Telemedicine, compact storage and adequate transmission of medical images is of bloom importance. Thus, a medical image abide to be compressed for transmission. These have actuate the need for Image Compression. Image compression has become a necessity to ensure their storage and transfer in the network, while maintaining minimal time cost. In this paper we present a study and analysis of an image compression approach occupying on the principle of compression by Discrete Wavelet Transform (DWT). Haar wavelet transform based compression is one of the process that can be applied for compressing images. The method uses different specifications such as peak signal to noise ratio, mean squared error, & signal to noise ratio to measure the performance and for comparing the results. This paper shows the objectives and methodology used for compressing different medical images and experimental results are presented and compared.
- Rajwinder Kaur and Sheenam Malhotra, "Compression of Image with Haar Wavelet and Neural Network A Review".
- Rajwinder Kaur and Sheenam Malhotra, "Compression of Image with Haar Wavelet and Neural Network A Review".
- Kamrul Hasan Talukder and Koichi Harada, "Wavelet Based Approach for Image Compression and Quality Assessment of Compressed Image".
- Divya Prashar and Archana Kumar, "A Review on Enhancement in Compression of Radiograph Image Using Wavelets and Neural Network".
- Sonja Grgic, Mislav Grgic, Member, 2001. IEEE and Branka Zovko-Cihlar, Member, IEEE, "Performance Analysis of Image Compression Using Wavelets".
- B. Nassiri, R. Latif1, A. Toumanari1, A. Bssis, S. Elouaham, K. EL mansouri, F. Maoulainine, "Study of Wavelet Based Medical Image Compression Techniques".
- Radiographs were taken from a radiological department of the medical institute from a
medical practitioner.

**Index Terms**
- Computer Science
- Image Processing

**Keywords**
- Image compression
- Wavelet
- Haar
- Radiographs
- Retained Energy.