Abstract

Wavelet transform is a mathematical tool for hierarchically decomposing functions. Wavelet transform has been proved to be a very useful tool for image processing in recent years. The most distinctive feature of Haar Transform lies in the fact that it lends itself easily to simple manual calculations. The aim of this paper is to describe the algorithm for image compression using Haar Transform. The quality analysis of this method has been checked for three different levels of HT scaling with varying quantization with threshold encoding scheme. In this paper, the image quality analysis is done using two sets of parameters, namely the popular peak signal to noise ratio and compression ratio.

References

- A. Bhardwaj and R. Ali, Image Compression Using Modified Fast Haar Wavelet
- Locker Gnome (2011), "Real World Application of Image Compression;"

Index Terms
Computer Science Image Processing
Keywords

Haar Wavelet Transform  Compression ratio  PSNR and MSE.