

A REVIEW- PERFORMANCE EVALUATION OF DCT, DWT & N-LEVEL-HYBRID TECHNIQUE IN IMAGE PROCESSING

TABASSUM SAIFI & PRADEEP KUNAR

Computer Science, NIET, Greater Noida, Uttar Pradesh Technical Universty, Lucknow, India

ABSTRACT

Image compression is a process to remove the redundant information from the image so that only essential information can be stored to reduce the storage size, transmission bandwidth and transmission time. Recently the JPEG committee has released its new image coding standard, JPEG-2000, which has been based upon DWT. The essential information is extracted by various transforms techniques such that it can be reconstructed without losing quality and information of the image. In this paper a comparative study of image compression is done by three transform methods, which are Discrete Cosine Transform (DCT), Discrete Wavelet Transform (DWT). The discrete Wavelet Transform is one which transform the discrete time signal to discrete wavelet representation. Basically Wavelet coding scheme is used for application where scalability and tolerable degradation are important.

KEYWORDS: Image Processing, DCT, DWT, n-Hybrid, Image Compression, Image Decompression