An Optimized Real Time Image Codec for Image Data Transmission and Storage

© 2012 by IJCA Journal

Volume 45 - Number 15

Year of Publication: 2012

Authors:

Nirmala Salam

Rekha Nair

Abstract

The need for an efficient technique for compression of Images is ever increasing because the raw images require large amount of disk space and large amount of time for images to be sent over the internet or downloaded from the web pages which seems to be very big disadvantage during transmission & storage. In this paper, we propose a simple image compression scheme to obtain better reconstructed image on decompression. The scheme is mainly based on DCT (Discrete Cosine Transform), which is one of the well known lossy image compression techniques. Our approach does not involve any encoding or decoding method like other conventional compression methods thereby decreasing the time complexity of overall process. The proposed scheme is simple, efficient and has low computational cost and high compression ratio and thus satisfying the current prime requirement of image data transmission and storage.

References

- D. S. Taubman, M. W. Marcellin, JPEG2000 Image Compression, Fundamentals,
- K. Cabeen and P. Gent., Image Compression and Discrete Cosine Transform, Gent, Math 54, College of Redwood
- C. Martinez, 2006. An ACO algorithm for image compression, In clei electronic journal, volume 9, number 2, paper 1, december 2006

Index Terms

Computer Science Image Processing

Keywords

Color Image Compression; Grayscale Image Compression Decompression Of Image Dct Lbg Vector Quantization