Abstract

In recent times the integration of video, audio and data in telecommunication devices has revolutionized the world communication. It has proven to be useful to almost every industry: the corporate world, entertainment industry, multimedia, education and even many household domestic appliances. The major problems encountered with these applications are the high data rates, high bandwidth and large memory required for storage and computing resources. Even with faster internet, throughput rates and improved network infrastructure, there are major bottlenecks in transferring such high volume data through the network due to bandwidth limitations. This justifies the need to develop compression techniques in order to make the best
use of available bandwidth [1]. This paper presents how the digital image is compressed using discrete cosine transform and the comparative study with other methods.

References

- I-Ming Pao and Ming-Ting Sun, Fellow, “Modeling DCT Coefficients For Fast Video Encoding”, IEEE Transactions on circuits and systems For video tech. VOL. 9, NO. 4, JUNE 1999

Index Terms

Computer Science Engineering and Technology

Keywords

JPEG-Joint Photographic Experts Group DCT-discrete cosine transform FFT-Fast Fourier Transform

IDCT- Inverse Discrete Cosine Transform
Lossy Image Compression using Discrete Cosine Transform