Image Compression using DCT upon Various Quantization

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Abstract

Discrete cosine transform (DCT) is a widely compression technique for converting an image into elementary frequency components. However, level of quality and compression is desired, scalar multiples of the JPEG standard quantization may be used. In this paper, DCT method was applied to compress image under various level of quality. Different quantization matrices of DCT’s coefficients are used to improve level of quality and compression ratio of JPEG image.

References


Index Terms

Computer Science
Image Processing

Keywords

DCT, Image compression, Quantization, and PSNR