

Comparison of Discrete Wavelet and Discrete Cosine Transform for Enhancement of Gray Image

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Abstract: In this paper comparison of Discrete Wavelet and Discrete Cosine Transform for contrast enhancement of gray image is discussed and implemented using proposed mask. The technique converts the image into DCT domain and the DCT coefficients are modified using proposed mask then the enhanced image is reconstructed using inverse DCT. After comparing enhancement based on DCT with enhancement based on wavelet transform I found that the discrete cosine transform outperforms with better image quality and with highest PSNR value.

Keywords: Discrete Wavelet transform, Discrete cosine transform

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