Abstract

The objective of this paper is to implement and evaluate the effectiveness of scaling functions and wavelet transformations in the field of image compression and decompression. The performance parameters like Peak Signal to Noise Ratio (PSNR), Mean Squared Error (MSE), and Compression Ratio (CR), SNR (Signal to Noise Ratio) are calculated based on the Matlab source code. The implemented model provides better PSNR, MSE, CR, SNR than the Basic 2D Discrete Cosine Transform.

References

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http://en.wikipedia.org/wiki/daubechies wavelet


Index Terms

Computer Science  Image Processing

Keywords

Abstract  Introduction  Basic Construction of Scaling Concepts Daubechies Wavelets  Wavelet Transformation  Results and Discussion

Error Metrics

Conclusion
References.