



# AN INVENTIVE APPROACH FOR IMAGE SCALING USING DATA COMPRESSION WITH WAVELET TRANSFORM TECHNIQUES

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**Abstract** - This presents performing single-level 2-D wavelet analysis and multilevel 2-D wavelet analysis image decompositions and reconstructions. It used command Square and Tree mode features to compress an image. The perform is a level-one 2-D wavelet decomposition of the image using the bior3.7 wavelet. Wavelet technique is generated, Construct and display and reconstruct the coefficient matrices of the level-single 2-D wavelet approximation (cA1) and horizontal, vertical and diagonal details (cH1, cV1, cD1, respectively) and wavelet approximation and details (A1, H1, V1, and D1) from the coefficients matrices cA1, cH1, cV1, and cD1, type and display the results of the level one decomposition. Wavelet is reconstructed the original image from the bior 3.7 wavelet decomposition structure and the coefficients C of the multilevel wavelet decomposition. The compression technique compresses the image and displays it and helps of wavelet toolbox. To compress the original images and calculate the default parameters, CXC, LXC, PERF0, PERFL2, thr, sorh, keep app using 3.7 bior wavelets. This reconstructs or synthesizes the original image from the coefficients of the level 1 approximation and details. Perform multilevel wavelet decomposition. To perform a level 2 decomposition of the image (again using the bior3.7 wavelet).where X is the original image matrix and 2 is the level of decomposition.

**KEYWORDS:** Image, Image Compression, Images Types, wavelet Compression Techniques DWT and IDWT