Optimal Selection of Wavelet Families

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Abstract - Literature review revealed that image coding is classical, still challenging problem of data compression, necessary in communication networks to deliver the information content. In this paper, bi-orthogonal wavelet filter coefficients are used for wavelet decomposition and reconstruction of image. When the image is compressed by using these filter coefficients in discrete wavelet domain then SPECK coding scheme is performed. The compression result by using these filter coefficient show that the reconstructed image has higher PSNR and low MSE than other wavelet families. For the performance study, all the standard wavelet family members' outcomes were tested.