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AN APPROACH ON PZW CODING TECHNIQUE USING SPHIT AND EZW CODING TECHNIQUE

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ABSTRACT

There has been a serious trend to convert conventional analog images to digitized images. The volume of digitized image being very high, will considerably slowdown the transmission and storage of such images. Therefore there is strong need of compression of the images by extracting the visible elements which are encoded and transmitted. This will substantially reduce the quantity of data to be stored and transmitted. Compression can be achieved by transforming the data and projecting it on the basis of functions and then encoding the transform. Wavelet coding has received considerable attention for image compression applications because it can hierarchically decompose an input image into a series of successfully low resolution approximation images and their associated detailed images at each level. When an image is subjected to n-level decomposition using DWT (Discrete Wavelet Transforms), the nth level will correspond to the lowest frequency sub-band and to the lowest resolution. When an image is decomposed using wavelet transforms one will get approximation and detailed images.we propose the EZW and SPIHT coding and ARQ (Automatic retransmission request) and FEC (Forward error correction) techniques and finally PZW (Packetizable Zero Tree Wavelet) coding techniques by modifying the EZW/SPIHT coding algorithms.

KEYWORDS: DWT, EZW, SPIHT and PZW