

## **AN EFFICIENT NEAR-LOSSLESS COMPRESSION METHOD FOR MEDICAL IMAGES**

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Medical image compression plays a vital role in a telemedicine systems. The main aim is to reduce the storage space without affecting the quality of the image. Set Partitioning in Hierarchical Trees (SPIHT) codes the individual bits of the image wavelet transform coefficients following a bit-plane sequence. Thus, it is capable of recovering the image perfectly by coding all bits of the transform. However, the wavelet transform yields perfect reconstruction only if its numbers are stored as infinite-precision numbers. In practice it is frequently possible to recover the image perfectly using rounding after recovery, but this is not the most efficient approach. In this paper proposes wavelet based image compression algorithm can be used to compress the medical images. The results are described in MATLAB's (Matrix Laboratory) software. Aim of the image compression is to reduce the redundancy of the image and also reduce the bits of the pixels. It also reduce the memory space after storing the image. Magnetic Resonance Image (MRI) brain images which is in the format of Digital Imaging and Communications in Medicine (DICOM) image dataset can be used for compression. Various Image compression parameters can be calculated. Such parameters are peak signal to noise ratio (PSNR), Mean square error (MSE) and Compression ratio can be calculated.