

Medical Image Compression by Region of Interest Based on DT-CWT Using Run-length Coding and Huffman Coding

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Abstract : Medical imaging produces human body pictures in digital form. Since these imaging techniques produce prohibitive amounts of data, compression is necessary for storage and communication purposes. In some areas in medicine, it may be sufficient to maintain high image quality only in region of interest (ROI). This paper discusses a contribution to quality purpose compression in the region of interest of scintigraphic images based on dual tree complex wavelet transform (DT-CWT) using Run-Length coding (RLE) and Huffman coding (HC).

Keywords : DT-CWT, region of interest, run length coding, Scintigraphic images

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