

Abstract

Medical images (X-RAY, MRI, CT, dst) is one of the important information in the world of health. Therefore, special treatment of medical images should not eliminate or reduce the information contained therein. This causes the image size to be large, making it difficult in the distribution and storage of images. Difficulties of distribution and limitations of data storage media are the main consideration the need to develop image compression method that produces a high compression ratio with good image quality results. Image compression process in this research started using Principal Component Analysis (PCA) method first then Discrete Wavelet Transform (DWT) and last Discrete Cosine Transformation (DCT). The results of the test system managed to get the average value of good performance based on Peak Signal to Noise Ratio (PSNR) 32.69 db and the compression ratio up to 42.19%.

Kata kunci :Image copresion, DWT, DCT, PCA, PSNR, Compression Ratio.