Abstract

Digital image compression is one of method that used in image processing to reduce storage size of image by reduce it information (lossy) or remain to maintain it (lossless). In this final task, the digital image compression has developed by combining methods of Quadro, Discrete Wavelet Transform (DWT) and Run Length Encoding (RLE). Using the image segmentation in stopping the Quadro and then continued by implemented the DWT method which would result a simpler combination value of image's color intensity with only saving the important value of an image (in subband LL). Then, using only this important value but zero-ing others subband, the process continued to the inverse of DWT and then threshold method to get homogeneous values within the neighbor pixels. Thus, it will end with greater value of compression ratio which is done by the RLE.

Keywords: Quadro, DWT, Threshold, RLE