Abstract

Image compression is image processing which eliminating redundancy data. It's caused for reduce image's media storage and bandwidth for transferring data.

In this final project, image compression which is develop using fuzzy algorithm for learning quantization, arithmetic coding for entropy encoding and wavelet transform. The result for some test image which has been selected shows that diference value of PSNR at families of fuzzy which isn't signify. Beside that, we can get compression ratio the process. Compression ratio good for knowing entropy encoding influence to system tested. Because of that, Huffman is selected. After testing, arithmetic coding's ratio better than huffman's ratio.

Keywords: image compression, wavelet transform, FLVQ, arithmetic coding, huffman.