

Abstract

Digital image watermarking is one of the method that proposed to protect the ownership of digital image. In this final project, a watermaking algorithm that uses is contourlet Tansform. The contourlet transform is preferred for watermarking because of its ability ti capture the directional edge and contour. The watermark image is embedded with Quantization Index Modulation(QIM) scheme. The watermark image embedded in the contourlet domain. The result of watermarked image has a very good Perceptibility indicated by a high PSNR values. Extracted watermark image is resistant to Various attack such as resize, JPEG Compression and JPEG2000 compression. This is evidenced by the high NC value and the value of a low BER.

Kata kunci : Watermarking Citra Digital, Watermark, Contourlet Transform, Quantization Index Modulation