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RESEARCH ARTICLE

Encryption of JPEG2000 Images using Watermarking

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Abstract— The proposed system aims to secured jpeg2000 images using digital image watermarking technique. The watermarking scheme is robust against noise, scaling and filtering attack. The jpeg2000 image encryption and decryption using RC4 stream cipher. In watermark, embedding and extraction has been done using robust watermarking technique. The watermarking techniques are Spread Spectrum, Scalar Costa Scheme and Rational Dither Modulation. The proposed work is analyzed by Peak Signal to Noise Ratio (PSNR), which is calculated using Mean Square Error (MSE).

Keywords— Watermark Embedding, Watermark Extraction, Compressed and Encrypted, JPEG 2000

Full Text: <http://www.ijcsmc.com/docs/papers/March2014/V3I3201499a15.pdf>