

## **86. EFFICIENT WATERMARKING TECHNIQUE AGAINST IMAGE ATTACKS**

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In the digital world, digital media is having a great impact and protection on such digital content is becoming necessary nowadays. Various image file formats are available for digital media. The digital content should be watermarked for tamper detection or for copyright protection. Compression is applied to reduce the number of bits and encryption randomizes those bits. Encryption is not used to protect the digital content once it is decrypted. So watermark provides more security for digital content. In this paper, a robust watermark embedding techniques for JPEG2000 compressed and encrypted images are used. While the proposed technique embeds watermark in the compressed encrypted domain, the extraction of watermark can be done either in decrypted domain. Keywords: Digital watermarking, JPEG2000, RC4, Spread Spectrum, Scalor-costa scheme, Rational Dither Modulation.

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