Novel Scheme For Compressed Image Authentication Using LSB Watermarking And EMRC6 Encryption

Abstract:

In this paper a combination of two algorithms to provide image authentication for medical images in the compressed format is proposed. In the proposed method, the watermark image is encrypted using the Extended modified RC6 block cipher (EMRC6) algorithm and the encrypted watermark image is watermarked using the simple Least significant Bit (LSB) watermarking technique. The watermarked output image shows no visual imparity and the watermark which has been extracted has no visual difference. The test results show that the watermarked image has high quality and the watermark is very secure.