



A BLIND IMAGE WATERMARKING TECHNIQUE USING MOST FREQUENT WAVELET COEFFICIENTS

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Submitted: July 21, 2017

Accepted: Oct. 15, 2017

Published: Dec. 1, 2017

Abstract- Watermarking in multimedia contents has attracted lots of attention in the research society. In this approach wavelet based blind image watermarking technique is proposed, initially original image is undergoing a single level decomposition using wavelet transform. From the approximation band, remove the decimal part of the most repeated integer part. Now, secret information is multiplied by the scaling factor which provides embedding strength. Further, it is added to the repeated values of wavelet coefficients, the watermarked image is obtained by applying the inverse wavelet transform. To prove the ownership extract the watermark by identifying the most frequent coefficients of the single level decomposition of watermarked image. Simulation results displays that the proposed approach can withstand the noise and filtering attacks with a good invisibility and robustness.

Index terms: Authentication, Copyright protection, Most frequent coefficients, Watermarking, Wavelet transform.