

عنوان مقاله:

A Blind Watermarking Algorithm to Protect Digital Images Based on Remainder of Wavelet Coefficients

محل انتشار:

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نویسندگان:

Heidar Ebrahimi - Electrical Department, Engineering Faculty, Shahid Chamran University of Ahvaz, Ahvaz, Iran

Karim Ansari-Asl

خلاصه مقاله:

In this work, a robust digital image watermarking algorithm is proposed using wavelet transform domain. At the first step, the wavelet decomposition of host image into ten sub-bands isdone by the 3-level Haar wavelet transform. Then, the wavelet coefficients in HL3 sub-band are quantized. For embeddingwatermark bits, we select an FxF coefficient matrix T from HL3 coefficients, as many as bits of the binary watermark image. Due to the blindness of the proposed watermarking algorithm, the extraction procedure of watermark doesn't require the original host image. The simulation results confirm that the proposed algorithm is sufficiently robust against common attacks, especially JPEG attack; besides, the method outperforms previous methods in the most situations

كلمات كليدي:

watermarking; wavelet transform; coefficient matrix

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