

عنوان مقاله:

A New Int2Int High Capacity Robust Steganography Method with LSB 1/3 and rounding method for embedding message

محل انتشار:

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خلاصه مقاله:

In this paper a new way for hiding message in digital images is proposed, that is robust against ALE and past other steganalysis methods. It has high capacity and good perceptual transparency and robustness. Proposed steganography method uses 2D int2int wavelet transform and based on Ramani's idea, divides sub bands to 8×8 blocks and constructs bit planes of each block, uses the cawagushi criteria for computing bit plane complexity and then computes the capacity of block by founding the first most significant bit that has complexity more than threshold. If the capacity is 1, uses the LSB 1/3 and if it is more than 1 uses rounding method for embedding message. Capacity of block is saved in three least significant bits of first value of block. After each embedding in each block, ALE steganalysis feature vectors are computed and if they change more than specified number TE, we ignore embedding in thisblock, save the value 0 or 000 in first value of block and replace the main numbers in block. Keep embedding from next block according to pseudo random number generator stream. At final, calculate inverse 2-D int2int wavelet transform and obtains the stego image

کلمات کلیدی:

Image, Steganalysis, Steganography, Stego

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