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The proposed method uses passive image authentication mechanism to detect the tampered regions on medical images. Structural texture information is obtained from the medical image by using local binary pattern rotation invariant (LBPROT) to make the keypoint extraction techniques more successful. Buy [(Image Tamper Detection Using Reversible Watermarking)] [Author: Prasad Patil] [Oct-2011] by Prasad Patil (ISBN:) from Amazon's Book Store. Everyday low prices and free delivery on eligible orders.

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Thus, in this paper we propose an anti-reverse-engineering dynamic tamper detection scheme that applies image steganography to distribute and hide code in PNG image files. We design and implement this proposed scheme, and present the results of a security evaluation of an application with the scheme applied.

Anti-reversible dynamic tamper detection scheme using ...

Generally, the tamper detection algorithms for reversible watermarking can be divided into two types: one is xed-sized blocking, and the other is blocking of non- xed sizes. However, both of these algorithms require extracting the feature value from the image block and embedding it as a tamper authentication water-mark. In the authentication phase, whether an image block has been tampered or ...

Double Reversible Watermarking Algorithm for Image Tamper ...

The goal of the tamper detection procedure is to detect whether the given image of $W \times H$ pixels is modified or not. If this image is modified, the tamper areas of the image will be detected. If this image is not tampered, the authentication codes can be extracted and the original cover image can be recovered.

A novel reversible image authentication scheme for digital ...

Deng et al. developed a region-based tampering detection and recovering method based on reversible watermarking and quadtree decomposition. In this method, original image is divided into blocks with high homogeneity using quadtree decomposition and then a recovery feature is calculated for each block using linear interpolation of pixels.

Medical Image Watermarking Technique

for Accurate Tamper ...

A reversible image authentication method that can improve the accuracy of tamper detection and the quality of watermarking image is presented by Peng et al. 19 In their scheme, a reversible data hiding is implemented with two identical host images, where the secret information is embedded in one host image while the distortion information is embedded in the other image.

Watermarking scheme using local binary pattern for image ...

TAMPER DETECTION AND RESTORATION In this section, two wavelet-based lossless data-embedding methods are proposed to detect tampering and to recover the original image from a tampered medical image.

Tamper Detection and Restoring System for Medical Images ...

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Medical Image Watermarking Technique for Accurate Tamper ...

A tamper detection and image recovery method for digital images had been introduced in 2013. In this method, the vector quantization scheme is employed to generate the authentication data. Multiple copies of the indices are embedded into the selected blocks based on the block permutations. In addition, a novel reversible image authentication scheme based on predictive coding and histogram ...

Probability-based reversible image authentication scheme ...

A design of a reversible tamper detection and recovery watermarking scheme was then proposed. The watermarking scheme uses a $640 \times 480 \times 8$ bits ultrasound grayscale image as a sample. The concept of ...

(PDF) Medical image watermarking with tamper detection and ...

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Medical Image Tamper Detection Based on Passive Image ...

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Moreover, by embedding the feature extraction in the form of average intensities of the image, an original image can be recovered from the tampered image. This paper will study and test a watermarking scheme using LSB Modification to perform tamper detection and recovery in the ROI. To make this watermarking scheme reversible, RLE is used to embed the original LSBs in the RONI to get higher ...

Medical image watermarking with tamper detection and ...

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Reversible Image Authentication Scheme Based on PEE ...

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Double reversible watermarking algorithm for image tamper ...

Tamper Detection & Recovery in Medical Image with secure data hiding using Reversible watermarking Ms. Madhuri B. Kulkarni¹, Mr. Ramesh T. Patil² ¹Master of engineering, Department of Electronics, Rajarambapu Institute of Technology, Sakharale, M.S., India ²Asso. Prof. Department of Electronics Rajarambapu Institute of Technology, Sakharale, M.S., India 1madhuri.etc@gmail.com rtpatil1@gmail ...

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