A Novel Image Encryption Approach Using Matrix Reordering

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A Novel Color Image Encryption Scheme Using Rectangular Transform-Enhanced Chaotic Tent Maps Image Encryption and Decryption using Chaotic Key Sequence Image Encryption and Its Applications (Part 2) Chaos-based fast colour image encryption scheme with true random number keys

2D chaotic map-based image encryptionA Novel Image Classification Algorithm Using Overcomplete Wavelet Transforms Dr. Aida Hussen: History, Fantasy, \u0026 the Contemporary African American Novel *How to Craft an Outline for Your Book I'M LEARNING TO OUTLINE // save the cat vs. 3 act, 9 block, 27 chapters vs. snowflake method* **Image Encryption Technique using Chaotic Map** 11 MOST BIZARRE Books In The World! *Creative Writing advice and tips from Stephen King* World's Biggest Cave Discovered in Vietnam - Full Documentary Evil Books That Are Too Cursed to Read How to Use Aeon Timeline to Quickly Plot Your Next Book *How to Plot a Novel (Using Index Cards) // Authortube* Getting into a pass code protected iPhone using checkm8 and Cellebrite How to Outline Your Novel in Scrivener What are Logistic Maps (and what they tell us about free will) How Secure Shell Works (SSH) - Computerphile *How to encrypt and decrypt an image using AES* **Public Key Cryptography: RSA Encryption Algorithm** A Keyless Approach To Image Encryption

Triangulating Intelligence, Sessions 2 \u0026 3: Sanjeev Arora, Yejin Choi, Aude Oliva, Joshua Tenenbaum

Telecare, a Novel Approach to Continuity and Service Mobilization During and Post COVID-19 *Cryptography: The Science of Making and Breaking Codes Secrets Hidden in Images (Steganography) - Computerphile Final Year Projects | Lossy Compression and Iterative Reconstruction for Encrypted Image PixelEncrypt™ - Simple and Fast Image Encryption 15 A NOVEL ERROR TOLERANT METHOD IN AES FOR SATELLITE IMAGES*

A Novel Image Encryption Approach

A Novel Image Encryption Approach Based on a Hyperchaotic System, Pixel-Level Filtering with Variable Kernels, and DNA-Level Diffusion 1. Introduction. Images carry rich and direct information that is easy to perceive for the human visual system. In some... 2. Preliminaries. Hyperchaos, first ...

A Novel Image Encryption Approach Based on a Hyperchaotic ...

Image encryption is a direct way to ensure image security. This paper presents a novel approach that uses a hyperchaotic system, Pixel-level Filtering with kernels of variable shapes and parameters, and DNA-level Diffusion, so-called PFDD, for image encryption. The PFDD totally consists of four stages.

A Novel Image Encryption Approach Based on a Hyperchaotic ...

It is essential to protect the multimedia data from unauthorized disclosure during transmit.A novel approach for encrypting digital images using Matrix Reordering (MR), a kind of scanning, and simple XOR operationis proposed in this paper. The MR is applied to permute the pixel positions and the XOR operation is done to diffuse the pixel values.

A Novel Image Encryption Approach using Matrix Reordering
A novel approach for encrypting digital images using Matrix Reordering (MR), a kind of scanning, and simple XOR operation is proposed in this paper. The MR is applied to permute the pixel positions and the XOR operation is done to diffuse the pixel values.

[PDF] A Novel Image Encryption Approach using Matrix ...
Department of Computer Science Faculty of Computing and Information Technology Northern Border University Kingdom of Saudi Arabia Abstract—In this paper, a novel image encryption approach is proposed in the context of cloud computing applications.

A Novel Image Encryption Approach for Cloud Computing ...
Image encryption is a direct way to ensure image security. This paper presents a novel approach that uses a hyperchaotic system, Pixel-level Filtering with kernels of variable shapes and...

(PDF) A Novel Image Encryption Approach Based on a ...
The proposed image encryption method is based on rearrangement of the pixels of the image. The rearrangement is done by scan patterns that generated by the SCAN methodology. The scanning path of the image is a random code form, and by specifying the pixels sequence along the scanning path.

A Novel Approach Of Image Encryption And Decryption By ...
A novel image encryption approach based on SP network and chaos is proposed. Qualitative and quantitative analysis verify the effectiveness of the proposed encryption scheme. The encryption scheme shows superior performance than previous schemes.

A novel image encryption scheme based on substitution ...
The original image is encrypted using DNA computation and DNA complementary rule. First, a secret key is generated using a DNA sequence and modular arithmetic operations. Then each pixel value of...

A New Image Encryption Algorithm based on DNA Approach
However, it remains an irreconcilable contradiction for security and implementation efficiency for image encryption schemes. In this paper, a novel chaos-based image encryption scheme has been proposed, where the Lorenz chaotic system is applied to generate pseudorandom sequences with good randomness, and a random switch control mechanism is introduced to ensure the security of the encryption scheme.

Design and Analysis of a Novel Chaos-Based Image ...
In 2020, J. Wu, J. Shi, T. Li, proposed a novel image encryption algorithm based on a hyperchaotic system and variable kernels for the confusion stage and a DNA technique for the diffusion stage . Mitochondrial DNA (mtDNA) is a small part of the DNA of organelle cells within eukaryotic cells [26].

A Novel Color Image Encryption Algorithm Based on ...
In this paper, a novel image encryption approach based on permutation-substitution (SP) network and chaotic systems is proposed. It consists of four cryptographic phases: diffusion, substitution, diffusion and permutation.

A novel image encryption scheme based on substitution ...
Abstract In this paper, a novel image encryption algorithm is proposed based on the combination of the chaos sequence and the modified AES algorithm. In this method, the encryption key is generated by Arnold chaos sequence.

An image encryption method based on chaos system and AES ...
Symmetric block encryption schemes, designed on invertible two-dimensional chaotic maps on a torus or a square, prove feasible and secure for real-time image encryption according to the commonly used criteria given in the literature.

A NOVEL FAST IMAGE ENCRYPTION SCHEME BASED ON 3D CHAOTIC ...
a novel coding scheme, which is based on Gray code [19]. Our proposed approach changes the structure of the pixels and therefore, it enhances the quality of encrypted images. To encipher each pixel of the plain image, the XOR operation is applied to its coded form using the chosen pixel by the chaotic map.

Novel Image Encryption Algorithm Based on Chaotic Map and ...
In , a novel image encryption approach based on permutation-substitution (SP) network and chaotic systems is proposed. In [12] , a novel chaotic block image encryption algorithm based on the dynamic random growth technique is proposed.

Hyperchaotic image encryption algorithm based on bit-level ...
This paper presents a novel color image encryption approach. The proposed approach utilizes the basic concepts of DNA cryptography along with Lorenz and Rossler chaotic system and 2D logistic map. The proposed approach encrypts RGB images using DNA cryptography techniques.

A 2D logistic map and Lorenz-Rossler chaotic system based ...
In this paper a novel image encryption scheme is presented based on Henon Chaotic System for color images in order to perform secure transmission of image. The proposed cipher ... Figure 1: Flow chart of Colored image encryption by new approach. 4.1 Key Generation: With the help of Henon Chaotic Map, the key has been generated. We use one ...