

## A Novel Image Encryption Approach Using Matrix Reordering

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Here is an updated version of the \$domain website which many of our East European book trade customers have been using for some time now, more or less regularly. We have just introduced certain upgrades and changes which should be interesting for you. Please remember that our website does not replace publisher websites, there would be no point in duplicating the information. Our idea is to present you with tools that might be useful in your work with individual, institutional and corporate customers. Many of the features have been introduced at specific requests from some of you. Others are still at preparatory stage and will be implemented soon.

### 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. School of Economic Information Engineering, Southwestern University of Finance and Economics, Chengdu 611130, China.

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

Abstract — In this paper, a novel image encryption approach is proposed in the context of cloud computing applications. keys, this method as well as chaotic system can be combined A fast special transform based on non-equispaced grid technique is

### A Novel Image Encryption Approach for Cloud Computing ...

A Novel Image Encryption Approach Based on a Hyperchaotic System, Pixel-Level Filtering with Variable Kernels, and DNA-Level Diffusion. A 'read' is counted each time someone views a publication ...

### (PDF) A Novel Image Encryption Approach Based on a ...

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 ...

A Novel Image Encryption Approach using an Index based Chaos and DNA Encoding and its Performance Analysis Aradhana Soni School Of Computer Engineering, KIIT University, Bhubaneswar, India Anuja Kumar Acharya, School Of Computer Engineering, KIIT University, Bhubaneswar, India ABSTRACT Chaotic based image permutation and DNA encoding methods

### A Novel Image Encryption Approach using an Index based ...

This paper presents a hybrid approach of chaos and DNA encoding methods for image encryption. Chaos sequence is used for permutation and DNA Encoding is used for the diffusion process. Index based chaotic sequence is generated using 1D logistic map for permutation; and DNA sequence matrix is obtained by encoding the permuted image and index based chaotic sequence using DNA encoding rule.

### CiteSeerX — A Novel Image Encryption Approach using an ...

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

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. Firstly, a diffusion phase is proposed based on new chaotic map.

### A novel image encryption scheme based on substitution ...

In this paper, based on the classic 1D logistic map, a 2D one-coupling logistic dynamics system and OpenCL, a novel parallel image encryption algorithm HCMO is proposed. Our algorithm consists of a confusion phase and a diffusion phase using four sub-key matrices based on the hybrid logistic dynamics systems, the linear transformation and the ...

### A novel parallel image encryption algorithm based on ...

a logistics -based encryption algorithm. In this technique, a Haar wavelet transform was used to decompose the image and decorrelate its pixels into averaging and differencing components.

### A NOVEL METHOD OF IMAGE ENCRYPTION USING LOGISTIC MAPPING

In this paper, a novel image encryption scheme is proposed. The technique involves two steps, where the finite field cosine transform is recursively applied to blocks of a given image.

### Fusion of confusion and diffusion: a novel image ...

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 ...

novel image encryption A chaoticalgorithm based on Logistic and Tinkerbell map is proposed.The proposed method uses two 1-D Logistic maps with different keys and one 2-D Tinkerbell map. The chaotic sequence generated is mixed sequence from the

### A Novel Approach for Image Encryption based on Parametric ...

Recently, the development of confidentiality and authenticity ensured by image encryption has been one of the key advancements in the field of secured wireless communication. The proposed work focuses on providing confusion, diffusion and permutation inherently in the system.

### Fusion of confusion and diffusion: a novel image ...

In this paper, a novel image encryption algorithm based on Logistic and Tinkerbell map is proposed.The proposed method uses two 1-D Logistic maps with different keys and one 2-D Tinkerbell map. The chaotic sequence generated is mixed sequence from the and sequences of Tinkerbell map depending on the chaotic sequences of two logistic maps.

### A Novel Approach for Image Encryption based on Parametric ...

Image Encryption Based on the General Approach for Multiple Chaotic Systems In the recent years, researchers developed image encryption methods based on chaotic systems. This paper proposed new image encryption technique based on new chaotic system by adding two chaotic systems: the Lorenz chaotic system and the R&#246;ssler chaotic system.

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