Sharing Pengalaman Mempublikasikan Artikel di Jurnal Internasional Berkualitas

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Daftar Publikasi dan Paten Program Doktoral UI

- Y. Suryanto, Suryadi, Kalamullah Ramli, "A Secure and Robust Image Encryption Based on *Chaotic* Permutation Multiple Circular Shrinking and Expanding", Journal of Information Hiding and Multimedia Signal Processing, published in Volume 7, Number 4, July 2016. **Indexed in Scopus, SJR Q1 (2014), Impact Factor 1.606 (2014).**
- Y. Suryanto, Suryadi, Kalamullah Ramli, "A New Image Encryption Using Color Scrambling Based on *Chaotic* Permutation Multiple Circular Shrinking and Expanding", Multimedia Tools and Applications, DOI: 10.1007/s11042-016-3954-5, published on 4th October 2016, pp 1-24. I**ndexed in Scopus, SJR Q1 in Media Technology (2015), Impact Factor 0.408**
- Y. Suryanto, Suryadi, Kalamullah Ramli, "Permutasi Multiputaran", pendaftaran paten, didaftarkan di Kementerian Hukum dan Hak Asasi Manusia RI, Direktorat Jenderal Hak Kekayaan Intelektual, pada tanggal 11 Februari 2016, **No P/ID P00201600906**
- Y. Suryanto, Suryadi, Kalamullah Ramli, "Ekspansi Kunci Permutasi Multiputaran", pendaftaran paten, didaftarkan di Kementerian Hukum dan Hak Asasi Manusia RI, Direktorat Jenderal Hak Kekayaan Intelektual, pada tanggal 11 Februari 2016, **No P/ID P00201600908.**
- Y. Suryanto, Suryadi, Kalamullah Ramli, "Performance Comparison of The New *Chaotic* Permutation and The Existing *Chaotic* Map to Enable Random Image Permutation with Very High *Key* Space", presented on 6th International Symposium on *Chaos* Revolution in Science, Technology and Society 2015 (ICR 2015)
- Y. Suryanto, Suryadi, Kalamullah Ramli, "*Chaos* Properties of the *Chaotic* Permutation Generated by Multi Circular Shrinking and Expanding Movement", The 14th International Conference on QiR (Quality in Research), Lombok, Indonesia, **IEEE Explorer, 12th August 2015, indexed in Scopus.**

Ikuti Pelatihan Menulis Paper

- Pelatihan Peningkatan Kemampuan Penulisan Artikel Untuk Jurnal Internasional Bereputasi" bagi dosen dan mahasiswa S3 di lingkungan FTUI, pada hari Selasa, 15 September 2015, di ruang Chevron FT UI, yang diselenggarakan oleh *Research and Community Services Faculty of Engineering-Universitas Indonesia*
- Workshop pelatihan penulisan paper oleh Chairul Hudaya, ST, M.Eng., Ph.D, pada bulan Mei 2016 di Fakultas Teknik UI

Menyiapkan Paper

- Sebisa mungkin menggunakan metode-metode pengukuran yang digunakan dalam paper-paper reference, agar memudahkan perbandingan dan sudah diterima oleh komunitas. Untuk image encryption misalnya: Visualisasi, Statistical analysis (correlation covariance, entropy, block entropy, histogram, and adjacent histogram), Differential analysis (NPCR, UACI) Key sensitivity (NPCR, UACI, correlation), key space, NIST Randomness Test, Robustness to noise using PSNR dan MSE.
- Tambahkan Grant atau badan yang membiayai reset kita di ackowledgement sebagai nilai tambah.
- Judul menggambarkan what, how, dan result.
- Tulis abstrak setelah isi dituliskan, yang merupakan ringkasan isi, yang menggambarkan what, how, dan result yang lebih detail .
- Dalam isi, gunakan gambar-gambar yang eye caching serta rumus-rumus yang cukup meyakinkan.
- Gunakan tools cek plagiarism dan grammar seperti http://smallseotools.com/
- Gunakan format penulisan sesuai dengan jurnal yang dituju

What, how, and result

Abstract

In this paper, we propose a new color image encryption method using color scrambling based on the chaotic permutation multiple circular shrinking and expanding (CPMCS/ CPMCE). The plain color image with a size of m x n x 3 is arranged in two-dimensional array, where each row consists of the Red, Green, and Blue (RGB) component, forming two-dimensional array with a size of m x 3n. The arranged 2D array then permuted by CPMCS for the each row and column. To reconstruct the original image, the ciphered image is arranged in 2D array then is permuted by CPMCE for each column and row. The proposed method is characterized by very high key space that reaches $2^{2,895,713}$ for an image size of 256x256, so that resistance to brute force attack and can anticipate the emergence of quantum computers. It also resistant to a differential attack due to change a single bit in the plain image causes a significant change in the ciphered image. The proposed encryption also yield completely difference ciphered image series from the same plain image just using arbitrary increment sequence key. It is also robust to JPEG compression so the ciphered image can be stored in smaller size, such as for the ciphered Lena image only needs 1/5.2 of the original one when compressed using JPEG 70%. It also resistant to noise scheme (Gaussian, Poisson, Salt&Pepper, and speckle), data loss, and brightness-contrast adjustment, so the ciphered image can be transmitted in a non error free communication system.

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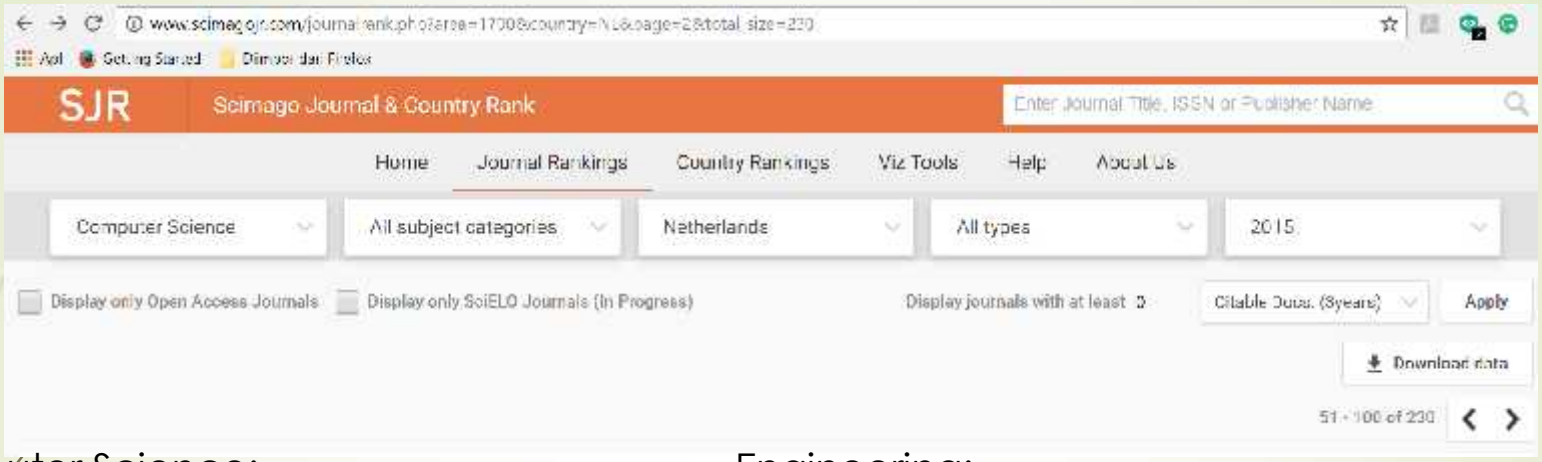
An Enhanced Image Encryption Using Pseudo Set Generated by Chaotic Permutation Multiple Circular Shrinking

Abstract
This paper propose a new image encryption method using pseudo set generated by chaotic permutation multiple circular shrinking (CPMCS) to diffuse pixels and control the shift distance of

Memilih Journal

- Sebisa mungkin pilih journal yang ada dalam reference
- Gunakan list scimagojr yang dipublich di http://www.scimagojr.com
- Cari skope jurnal yang kira-kira sesuai yang sesuai, terutama journal yang terbit di negara non native English seperti Asia (Taiwan: Journal of Information Hiding and Multimedia Signal Processing), Eropa Timur (Rumania: International Journal of Computers Communications & Control), Eropa (Belanda: Multimedia Tools and Applications) dll.
- Cari journal dengan Q1 atau Q2, Karena waktu penolakan relative cepat 1-2 minggu. Kalau lama berarti tanda-tanda paper kita diterima atau dikonsider. Waktu untuk publikasi bisa 4-8 bulan.

Case Journal: Multimedia Tools and Applications



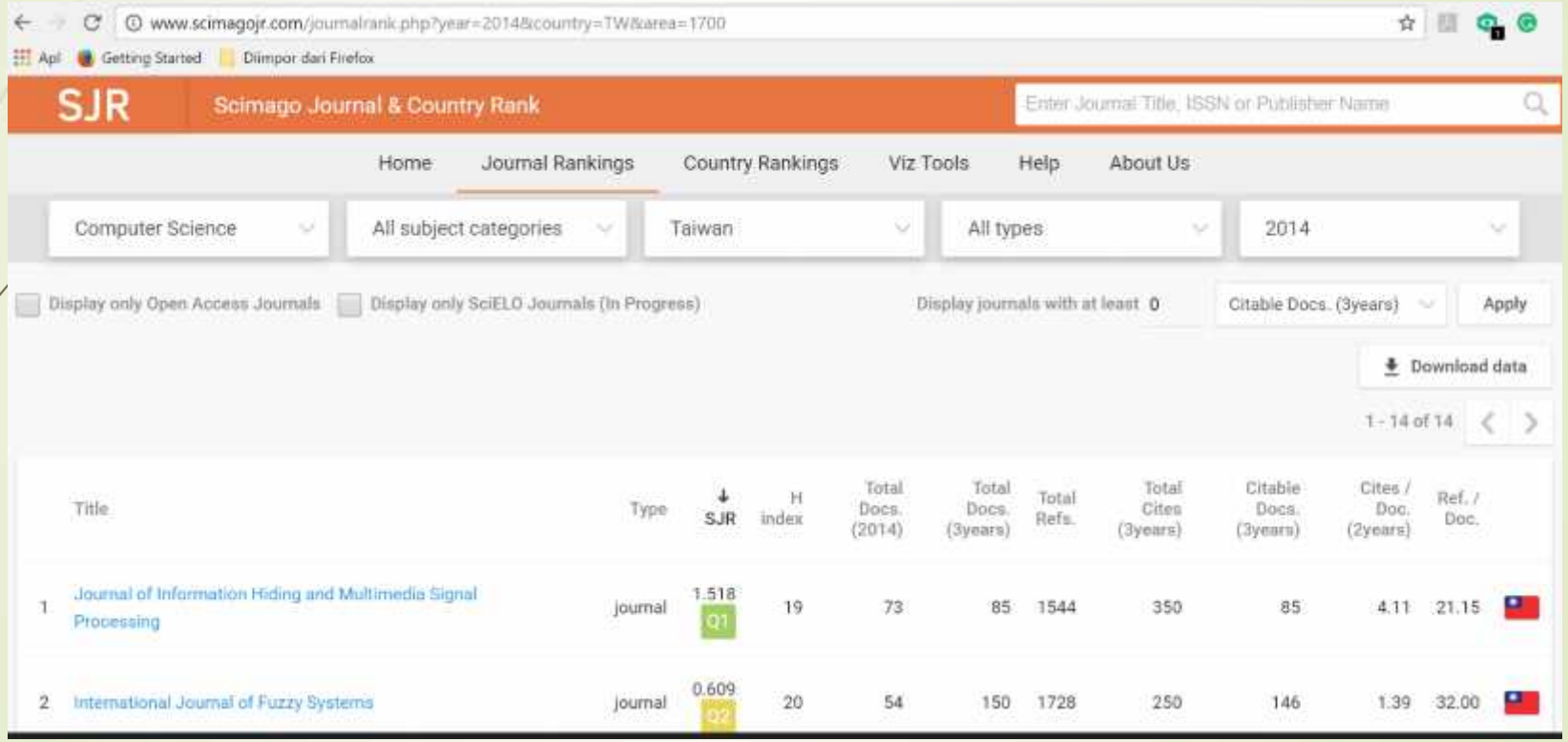
Computer Science:

140	Journal of Intelligent and Fuzzy Systems	journal	0.444	Q3
141	Multimedia Tools and Applications	journal	0.408	Q2
142	Intelligent Data Analysis	journal	0.403	Q3
143	Journal of Systems Architecture	journal	0.399	Q2

Engineering:

134	Recent Patents on Nanotechnology	journal	0.425	Q2
135	Multimedia Tools and Applications	journal	0.408	Q1
136	Shock and Vibration	journal	0.406	Q2
137	Journal of Porous Materials	journal	0.405	Q2

Case: Journal of Information Hiding and Multimedia Signal Processing



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1	Journal of Information Hiding and Multimedia Signal Processing	journal	1.518 Q1	19	73	85	1544	350	85	4.11	21.15	
2	International Journal of Fuzzy Systems	journal	0.609 Q2	20	54	150	1728	250	146	1.39	32.00	

Berkoordinasi dengan Profesor

- Berkonsultasi dengan Profesor isi paper dan rencana journal yang akan dituju.

Buatlah digital log book

- Buatlah digital logbook untuk setiap kegiatan penelitian kita, termasuk kegiatan untuk penulisan paper.
- Untuk setiap file referensi, gambar, video, rumus-rumus, program, hasil uji, dan analisis, simpanlah dalam direktori per journal yang akan dituju.
- File-file korespondensi dengan journal yang dituju juga disimpan dalam direktori yang sama untuk memudahkan follow-up.

Menjawab surat balasan

- Gunakan Bahasa yang sebaik-baiknya dan menjawab semua aspek yang ditanyakan.
- Contoh case: surat response to comment ke Journal Multimedia Tools and Applications

Tips lainnya

- Submit paper sedini mungkin, untuk mengantisipasi waktu tunggu yang bisa 4-8 bulan, sertai kemungkinan paper direject.
- Sabar menunggu
- Jika memungkinan, perbaiki paper kita yang sudah disubmit