osama faragallah

List of Publications by Year
in descending order

62 papers	1,464 citations	304743 22 h-index	377865 34 g-index
62 all docs	62 docs citations	62 times ranked	765 citing authors

#	ARTICLE	IF	CITATIONS
1	A chaotic block cipher algorithm for image cryptosystems. Communications in Nonlinear Science and Numerical Simulation, 2010, 15, 3484-3497.	3.3	95
2	Highly Sensitive Twin Resonance Coupling Refractive Index Sensor Based on Gold- and MgF2-Coated Nano Metal Films. Biosensors, 2021, 11, 104.	4.7	70
3	Efficient way for detection of alcohols using hollow core photonic crystal fiber sensor. Optical Review, 2021, 28, 383-392.	2.0	57
4	An efficient DT-CWT medical image fusion system based on modified central force optimization and histogram matching. Infrared Physics and Technology, 2018, 94, 223-231.	2.9	55
5	Investigation of Chaotic Image Encryption in Spatial and FrFT Domains for Cybersecurity Applications. IEEE Access, 2020, 8, 42491-42503.	4.2	54
6	Chaos-based hash function (CBHF) for cryptographic applications. Chaos, Solitons and Fractals, 2009, 42, 767-772.	5.1	50
7	A novel deep learning framework for copy-moveforgery detection in images. Multimedia Tools and Applications, 2020, 79, 19167-19192.	3.9	49
8	Block-Based Optical Color Image Encryption Based on Double Random Phase Encoding. IEEE Access, 2019, 7, 4184-4194.	4.2	48
9	A comparative study of broadband solar absorbers with different gold metasurfaces and MgF2 on tungsten substrates. Journal of Computational Electronics, 2021, 20, 1840-1850.	2.5	47
10	Design and numerical analysis of a photonic crystal fiber (PCF)-based flattened dispersion THz waveguide. Optical Review, 2021, 28, 564-572.	2.0	46
11	Efficient chaotic-based image cryptosystem with different modes of operation. Multimedia Tools and Applications, 2020, 79, 20665-20687.	3.9	45
12	Hilbert resonator-based multiband tunable graphene metasurface polarizer for lower THz frequency. Journal of Computational Electronics, 2022, 21, 280-288.	2.5	45
13	Secure color image cryptosystem based on chaotic logistic in the FrFT domain. Multimedia Tools and Applications, 2020, 79, 2495-2519.	3.9	43
14	Homomorphic image watermarking with a singular value decomposition algorithm. Information Processing and Management, 2014, 50, 909-923.	8.6	38
15	Performance Analysis of IoT and Long-Range Radio-Based Sensor Node and Gateway Architecture for Solid Waste Management. Sensors, 2021, 21, 2774.	3.8	38
16	Robust hybrid watermarking techniques for different color imaging systems. Multimedia Tools and Applications, 2018, 77, 25709-25759.	3.9	37
17	Efficient HEVC Integrity Verification Scheme for Multimedia Cybersecurity Applications. IEEE Access, 2020, 8, 167069-167089.	4.2	36
18	Efficiently Encrypting Color Images With Few Details Based on RC6 and Different Operation Modes for Cybersecurity Applications. IEEE Access, 2020, 8, 103200-103218.	4.2	33

#	Article	IF	Citations
19	Cybersecurity framework of hybrid watermarking and selective encryption for secure HEVC communication. Journal of Ambient Intelligence and Humanized Computing, 2022, 13, 1215-1239.	4.9	30
20	Efficient multi-scale non-sub-sampled shearlet fusion system based on modified central force optimization and contrast enhancement. Infrared Physics and Technology, 2019, 102, 102975.	2.9	29
21	Efficient implementation of chaotic image encryption in transform domains. Journal of Systems and Software, 2014, 97, 118-127.	4.5	28
22	Efficient HEVC selective stream encryption using chaotic logistic map. Multimedia Systems, 2018, 24, 419-437.	4.7	26
23	An enhanced chaotic key‑based RC5 block cipher adapted to image encryption. International Journal of Electronics, 2012, 99, 925-943.	1.4	25
24	Chaos-based model for encryption and decryption of digital images. Multimedia Tools and Applications, 2016, 75, 11529-11553.	3.9	22
25	Digital Image Encryption Based on the RC5 Block Cipher Algorithm. Sensing and Imaging, 2011, 12, 73-94.	1.5	21
26	Efficient audio cryptosystem based on chaotic maps and double random phase encoding. International Journal of Speech Technology, 2015, 18, 619-631.	2.2	21
27	Robust and secure fractional wavelet image watermarking. Signal, Image and Video Processing, 2015, 9, 89-98.	2.7	21
28	Secure Wireless Image Communication Using LSB Steganography and Chaotic Baker Ciphering. Wireless Personal Communications, 2016, 91, 1023-1049.	2.7	21
29	Two stages object recognition based copy-move forgery detection algorithm. Multimedia Tools and Applications, 2019, 78, 15353-15373.	3.9	20
30	The Effect of Fractional Fourier Transform Angle in Encryption Quality for Digital Images. Optik, 2016, 127, 315-319.	2.9	18
31	CABAC-based selective encryption for HEVC using RC6 in different operation modes. Multimedia Tools and Applications, 2018, 77, 28395-28416.	3.9	18
32	Efficient confusion‑diffusion chaotic image cryptosystem using enhanced standard map. Signal, Image and Video Processing, 2015, 9, 1917-1926.	2.7	17
33	Transmission of Chaotic-based Encrypted Audio Through OFDM. Wireless Personal Communications, 2020, 113, 241-261.	2.7	17
34	Steganography of Encrypted Messages Inside Valid QR Codes. IEEE Access, 2020, 8, 27861-27873.	4.2	17
35	A Neural Network-Based Learning Algorithm for Intrusion Detection Systems. Wireless Personal Communications, 2017, 97, 3097-3112.	2.7	16
36	Secure Audio Cryptosystem Using Hashed Image LSB watermarking and Encryption. Wireless Personal Communications, 2018, 98, 2009-2023.	2.7	16

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37	An optimal wavelet-based multi-modality medical image fusion approach based on modified central force optimization and histogram matching. Multimedia Tools and Applications, 2019, 78, 26373-26397.	3.9	16
38	Efficient audio integrity verification algorithm using discrete cosine transform. International Journal of Speech Technology, 2016, 19, 1-8.	2.2	15
39	Robust noise MKMFCCâ€"SVM automatic speaker identification. International Journal of Speech Technology, 2018, 21, 185-192.	2.2	15
40	Content Verification of Encrypted Images Transmitted Over Wireless AWGN Channels. Wireless Personal Communications, 2016, 88, 479-491.	2.7	14
41	Wavelet fusion for encrypting images with a few details. Computers and Electrical Engineering, 2016, 54, 450-470.	4.8	12
42	Robust Image watermarking Method Using Homomorphic Block-Based KLT. Optik, 2016, 127, 2374-2381.	2.9	11
43	Quality enhancement of infrared images using dynamic fuzzy histogram equalization and high pass adaptation in DWT. Optik, 2018, 160, 146-158.	2.9	10
44	Development of Serious Games for Teaching Information Security Courses. IEEE Access, 2019, 7, 169293-169305.	4.2	10
45	A fast hybrid image cryptosystem based on random generator and modified logistic map. Multimedia Tools and Applications, 2019, 78, 16177-16193.	3.9	10
46	Efficient tumor detection in medical images using pixel intensity estimation based on nonparametric approach. Expert Systems With Applications, 2019, 120, 139-154.	7.6	10
47	Secure Opto-Audio Cryptosystem Using XORing Mask and Hartley Transform. IEEE Access, 2021, 9, 25437-25449.	4.2	10
48	Estimation and Tracking for Millimeter Wave MIMO Systems Under Phase Noise Problem. IEEE Access, 2020, 8, 228009-228023.	4.2	10
49	A Password-Based Authentication System Based on the CAPTCHA AI Problem. IEEE Access, 2020, 8, 153914-153928.	4.2	9
50	Sensitivity of automatic speaker identification to SVD digital audio watermarking. International Journal of Speech Technology, 2015, 18, 565-581.	2.2	7
51	Efficient Face Recognition Using Regularized Adaptive Non-Local Sparse Coding. IEEE Access, 2019, 7, 10653-10662.	4.2	7
52	Small Details Gray Scale Image Encryption Using RC6 Block Cipher. Wireless Personal Communications, 2021, 118, 1559-1589.	2.7	6
53	Efficient Generation of Cancelable Face Templates Based on Quantum Image Hilbert Permutation. Electronics (Switzerland), 2022, 11, 1040.	3.1	5
54	Encryption-based multilevel model for DBMS. Computers and Security, 2012, 31, 437-446.	6.0	3

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55	Efficient cardiac segmentation using random walk with pre-computation and intensity prior model. Applied Soft Computing Journal, 2017, 61, 427-446.	7.2	3
56	Efficient signal and protocol level security for network communication. International Journal of Speech Technology, 2020, 23, 399-424.	2.2	3
57	High mobility transmission system under intelligent reflecting surface. Transactions on Emerging Telecommunications Technologies, 2022, 33, .	3.9	3
58	Resolution enhancement of images for further pattern recognition applications. Optik, 2016, 127, 484-492.	2.9	2
59	An Enhanced Hierarchical Key Management Scheme for MANETs. Wireless Personal Communications, 2013, 72, 1783-1800.	2.7	1
60	Improved Hierarchical Key Management Scheme (IHKMS) with Three Phase Technique for Ad-Hoc Networks. Wireless Personal Communications, 2016, 91, 1297-1319.	2.7	1
61	Transmission of DWT Block-Based KLT Watermarked Images Through MC-CDMA Wireless Channel. Wireless Personal Communications, 2016, 90, 1387-1404.	2.7	1
62	Efficient storage and classification of color patterns based on integrating interpolation with ANN/SVM. Multimedia Tools and Applications, 2020, 79, 947-978.	3.9	1