Yu-Shu Zhang

List of Publications by Year in descending order

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95 papers	4,336 citations	81743 39 h-index	114278 63 g-index
95 all docs	95 docs citations	95 times ranked	2094 citing authors

#	Article	IF	Citations
1	An Efficient Oblivious Random Data Access Scheme in Cloud Computing. IEEE Transactions on Cloud Computing, 2023, 11, 1940-1953.	3.1	2
2	TPE-ISE: approximate thumbnail preserving encryption based on multilevel DWT information self-embedding. Applied Intelligence, 2023, 53, 4027-4046.	3.3	4
3	Use the Spear as a Shield: An Adversarial Example Based Privacy-Preserving Technique Against Membership Inference Attacks. IEEE Transactions on Emerging Topics in Computing, 2023, 11, 153-169.	3.2	1
4	PRNU-based Image Forgery Localization with Deep Multi-scale Fusion. ACM Transactions on Multimedia Computing, Communications and Applications, 2023, 19, 1-20.	3.0	4
5	Optimizing Task Location Privacy in Mobile Crowdsensing Systems. IEEE Transactions on Industrial Informatics, 2022, 18, 2762-2772.	7.2	14
6	HF-TPE: High-Fidelity Thumbnail- Preserving Encryption. IEEE Transactions on Circuits and Systems for Video Technology, 2022, 32, 947-961.	5.6	39
7	Cost-Friendly Differential Privacy of Smart Meters Using Energy Storage and Harvesting Devices. IEEE Transactions on Services Computing, 2022, 15, 2648-2657.	3.2	5
8	Intellectual Property Protection for Deep Learning Models: Taxonomy, Methods, Attacks, and Evaluations. IEEE Transactions on Artificial Intelligence, 2022, 3, 908-923.	3.4	14
9	TPE-GAN: Thumbnail Preserving Encryption Based on GAN With Key. IEEE Signal Processing Letters, 2022, 29, 972-976.	2.1	54
10	An image encryption scheme based on multi-objective optimization and block compressed sensing. Nonlinear Dynamics, 2022, 108, 2671-2704.	2.7	81
11	Active intellectual property protection for deep neural networks through stealthy backdoor and usersâ€™ identities authentication. Applied Intelligence, 2022, 52, 16497-16511.	3.3	4
12	High-efficiency and visual-usability image encryption based on thumbnail preserving and chaotic system. Journal of King Saud University - Computer and Information Sciences, 2022, 34, 2993-3010.	2.7	7
13	Preserving privacy while revealing thumbnail for content-based encrypted image retrieval in the cloud. Information Sciences, 2022, 604, 115-141.	4.0	35
14	Adversarial Data Hiding in Digital Images. Entropy, 2022, 24, 749.	1.1	5
15	PRA-TPE: Perfectly Recoverable Approximate Thumbnail-Preserving Image Encryption. Journal of Visual Communication and Image Representation, 2022, 87, 103589.	1.7	6
16	An efficient approach for encrypting double color images into a visually meaningful cipher image using 2D compressive sensing. Information Sciences, 2021, 556, 305-340.	4.0	122
17	Privacy-Assured FogCS: Chaotic Compressive Sensing for Secure Industrial Big Image Data Processing in Fog Computing. IEEE Transactions on Industrial Informatics, 2021, 17, 3401-3411.	7.2	38
18	Visual Quality Assessment for Perceptually Encrypted Light Field Images. IEEE Transactions on Circuits and Systems for Video Technology, 2021, 31, 2522-2534.	5.6	10

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19	A Smart-Contract-Based Access Control Framework for Cloud Smart Healthcare System. IEEE Internet of Things Journal, 2021, 8, 5914-5925.	5.5	82
20	Anomaly detection of aircraft leadâ€acid battery. Quality and Reliability Engineering International, 2021, 37, 1186-1197.	1.4	2
21	TPE2: Three-Pixel Exact Thumbnail-Preserving Image Encryption. Signal Processing, 2021, 183, 108019.	2.1	34
22	Reversible data hiding in encrypted color images using cross-channel correlations. Journal of Visual Communication and Image Representation, 2021, 78, 103166.	1.7	8
23	Defense Against Advanced Persistent Threat Through Data Backup and Recovery. IEEE Transactions on Network Science and Engineering, 2021, 8, 2001-2013.	4.1	16
24	Gaussian Model for 3D Mesh Steganography. IEEE Signal Processing Letters, 2021, 28, 1729-1733.	2.1	7
25	SWDGAN: GAN-based sampling and whole image denoising network for compressed sensing image reconstruction. Journal of Electronic Imaging, 2021, 30, .	0.5	5
26	Cloud-assisted privacy-conscious large-scale Markowitz portfolio. Information Sciences, 2020, 527, 548-559.	4.0	10
27	An efficient visually meaningful image compression and encryption scheme based on compressive sensing and dynamic LSB embedding. Optics and Lasers in Engineering, 2020, 124, 105837.	2.0	169
28	Secure and Efficient Outsourcing of PCA-Based Face Recognition. IEEE Transactions on Information Forensics and Security, 2020, 15, 1683-1695.	4.5	65
29	A Low-Overhead, Confidentiality-Assured, and Authenticated Data Acquisition Framework for IoT. IEEE Transactions on Industrial Informatics, 2020, 16, 7566-7578.	7.2	38
30	Colour light field image encryption based on DNA sequences and chaotic systems. Nonlinear Dynamics, 2020, 99, 1587-1600.	2.7	64
31	ARM-Embedded Implementation of a Novel Color Image Encryption and Transmission System Based on Optical Chaos. IEEE Photonics Journal, 2020, 12, 1-17.	1.0	6
32	An effective image compressionâ€“encryption scheme based on compressive sensing (CS) and game of life (GOL). Neural Computing and Applications, 2020, 32, 14113-14141.	3.2	53
33	Analysis of computer virus propagation behaviors over complex networks: a case study of Oregon routing network. Nonlinear Dynamics, 2020, 100, 1725-1740.	2.7	19
34	Secure Transmission of Compressed Sampling Data Using Edge Clouds. IEEE Transactions on Industrial Informatics, 2020, 16, 6641-6651.	7.2	35
35	Compressed Sensing Based Selective Encryption With Data Hiding Capability. IEEE Transactions on Industrial Informatics, 2019, 15, 6560-6571.	7.2	33
36	Medical image encryption algorithm based on Latin square and memristive chaotic system. Multimedia Tools and Applications, 2019, 78, 35419-35453.	2.6	84

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37	Cryptanalysis and improvement in a chaotic image cipher using two-round permutation and diffusion. Nonlinear Dynamics, 2019, 96, 31-47.	2.7	55
38	Fidelity Preserved Data Hiding in Encrypted Highly Autocorrelated Data Based on Homomorphism and Compressive Sensing. IEEE Access, 2019, 7, 69808-69825.	2.6	12
39	A robust and secure image sharing scheme with personal identity information embedded. Computers and Security, 2019, 85, 107-121.	4.0	12
40	Multimedia Data Security. Springer Briefs in Electrical and Computer Engineering, 2019, , 15-62.	0.3	0
41	Internet of Things Security. Springer Briefs in Electrical and Computer Engineering, 2019, , 83-112.	0.3	0
42	Compressive Sensing. Springer Briefs in Electrical and Computer Engineering, 2019, , 1-9.	0.3	1
43	Secure Wireless Communications Based on Compressive Sensing: A Survey. IEEE Communications Surveys and Tutorials, 2019, 21, 1093-1111.	24.8	51
44	Effective Repair Strategy Against Advanced Persistent Threat: A Differential Game Approach. IEEE Transactions on Information Forensics and Security, 2019, 14, 1713-1728.	4.5	74
45	A Continuous-Time Algorithm for Distributed Optimization Based on Multiagent Networks. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2019, 49, 2700-2709.	5.9	49
46	A compression-diffusion-permutation strategy for securing image. Signal Processing, 2018, 150, 183-190.	2.1	42
47	Low-Cost and Confidentiality-Preserving Data Acquisition for Internet of Multimedia Things. IEEE Internet of Things Journal, 2018, 5, 3442-3451.	5.5	88
48	Image salient regions encryption for generating visually meaningful ciphertext image. Neural Computing and Applications, 2018, 29, 653-663.	3.2	43
49	A fast and efficient approach to color-image encryption based on compressive sensing and fractional Fourier transform. Multimedia Tools and Applications, 2018, 77, 2191-2208.	2.6	68
50	On the Security of a Class of Diffusion Mechanisms for Image Encryption. IEEE Transactions on Cybernetics, 2018, 48, 1163-1175.	6.2	92
51	Mixed Noise Removal via Robust Constrained Sparse Representation. IEEE Transactions on Circuits and Systems for Video Technology, 2018, 28, 2177-2189.	5.6	23
52	A hybrid scheme for self-adaptive double color-image encryption. Multimedia Tools and Applications, 2018, 77, 14285-14304.	2.6	13
53	Improved known-plaintext attack to permutation-only multimedia ciphers. Information Sciences, 2018, 430-431, 228-239.	4.0	54
54	Exploiting self-adaptive permutationâ€“diffusion and DNA random encoding for secure and efficient image encryption. Signal Processing, 2018, 142, 340-353.	2.1	263

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55	Cryptanalyzing a Color Image Encryption Scheme Based on Hybrid Hyper-Chaotic System and Cellular Automata. IEEE Access, 2018, 6, 47102-47111.	2.6	49
56	Deciphering an RGB color image cryptosystem based on Choquet fuzzy integral. Neural Computing and Applications, 2017, 28, 165-169.	3.2	5
57	A novel method for image segmentation using reactionâ€“diffusion model. Multidimensional Systems and Signal Processing, 2017, 28, 657-677.	1.7	13
58	A visually secure image encryption scheme based on compressive sensing. Signal Processing, 2017, 134, 35-51.	2.1	244
59	Computation Outsourcing Meets Lossy Channel: Secure Sparse Robustness Decoding Service in Multi-Clouds. IEEE Transactions on Big Data, 2017, , 1-1.	4.4	30
60	Harnessing the Hybrid Cloud for Secure Big Image Data Service. IEEE Internet of Things Journal, 2017, 4, 1380-1388.	5.5	28
61	A self-adaptive scheme for double color-image encryption. , 2017, , .		1
62	An efficient chaotic image cipher with dynamic lookup table driven bit-level permutation strategy. Nonlinear Dynamics, 2017, 87, 1359-1375.	2.7	32
63	Differential attack on a hyper-chaos-based image cryptosystem with a classic bi-modular architecture. Nonlinear Dynamics, 2017, 87, 383-390.	2.7	39
64	A Compressive Sensing based privacy preserving outsourcing of image storage and identity authentication service in cloud. Information Sciences, 2017, 387, 132-145.	4.0	48
65	Bi-level Protected Compressive Sampling. IEEE Transactions on Multimedia, 2016, 18, 1720-1732.	5.2	78
66	A Review of Compressive Sensing in Information Security Field. IEEE Access, 2016, 4, 2507-2519.	2.6	162
67	Exploiting Optics Chaos for Image Encryption-Then-Transmission. Journal of Lightwave Technology, 2016, 34, 5101-5109.	2.7	46
68	Perturbation meets keyâ€based interval splitting arithmetic coding: security enhancement and chaos generalization. Security and Communication Networks, 2016, 9, 43-53.	1.0	4
69	Chaotic Image Encryption of Regions of Interest. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2016, 26, 1650193.	0.7	25
70	A Block Compressive Sensing Based Scalable Encryption Framework for Protecting Significant Image Regions. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2016, 26, 1650191.	0.7	25
71	Embedding cryptographic features in compressive sensing. Neurocomputing, 2016, 205, 472-480.	3.5	101
72	Attack and Improvement of the Fidelity Preserved Fragile Watermarking of Digital Images. Arabian Journal for Science and Engineering, 2016, 41, 941-950.	1.1	7

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73	Chosen-plaintext attack of an image encryption scheme based on modified permutationâ€“diffusion structure. Nonlinear Dynamics, 2016, 84, 2241-2250.	2.7	57
74	Robust image hashing with tampering recovery capability via low-rank and sparse representation. Multimedia Tools and Applications, 2016, 75, 7681-7696.	2.6	15
75	Joint quantization and diffusion for compressed sensing measurements of natural images. , 2015, , .		11
76	Support-Set-Assured Parallel Outsourcing of Sparse Reconstruction Service for Compressive Sensing in Multi-clouds. , 2015, , .		6
77	Cryptanalysis and Improvement of the Robust and Blind Watermarking Scheme for Dual Color Image. Mathematical Problems in Engineering, 2015, 2015, 1-10.	0.6	2
78	Improved reversible data hiding for encrypted images using full embedding strategy. Electronics Letters, 2015, 51, 690-691.	0.5	21
79	An efficient image encryption scheme using lookup table-based confusion and diffusion. Nonlinear Dynamics, 2015, 81, 1151-1166.	2.7	101
80	Robust coding of encrypted images via structural matrix. Signal Processing: Image Communication, 2015, 39, 202-211.	1.8	21
81	Exploiting random convolution and random subsampling for image encryption and compression. Electronics Letters, 2015, 51, 1572-1574.	0.5	25
82	Reversible data hiding in encrypted images using cross division and additive homomorphism. Signal Processing: Image Communication, 2015, 39, 234-248.	1.8	75
83	Deciphering an image cipher based on 3-cell chaotic map and biological operations. Nonlinear Dynamics, 2015, 82, 1831-1837.	2.7	31
84	Infrared target-based selective encryption by chaotic maps. Optics Communications, 2015, 341, 131-139.	1.0	37
85	On the security of symmetric ciphers based on DNA coding. Information Sciences, 2014, 289, 254-261.	4.0	55
86	Cryptanalyzing a novel image fusion encryption algorithm based on DNA sequence operation and hyper-chaotic system. Optik, 2014, 125, 1562-1564.	1.4	65
87	Breaking an image encryption algorithm based on hyper-chaotic system with only one round diffusion process. Nonlinear Dynamics, 2014, 76, 1645-1650.	2.7	61
88	Security evaluation of bilateral-diffusion based image encryption algorithm. Nonlinear Dynamics, 2014, 77, 243-246.	2.7	17
89	Cryptanalyzing a novel image cipher based on mixed transformed logistic maps. Multimedia Tools and Applications, 2014, 73, 1885-1896.	2.6	25
90	Cryptanalysis of image scrambling based on chaotic sequences and VigenÃ¨re cipher. Nonlinear Dynamics, 2014, 78, 235-240.	2.7	35

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91	An image encryption scheme based on rotation matrix bit-level permutation and block diffusion. Communications in Nonlinear Science and Numerical Simulation, 2014, 19, 74-82.	1.7	184
92	Self-adaptive permutation and combined global diffusion for chaotic color image encryption. AEU - International Journal of Electronics and Communications, 2014, 68, 361-368.	1.7	71
93	Cryptanalysis of S-box-only chaotic image ciphers against chosen plaintext attack. Nonlinear Dynamics, 2013, 72, 751-756.	2.7	67
94	Double optical image encryption using discrete Chirikov standard map and chaos-based fractional random transform. Optics and Lasers in Engineering, 2013, 51, 472-480.	2.0	179
95	A novel image encryption scheme based on a linear hyperbolic chaotic system of partial differential equations. Signal Processing: Image Communication, 2013, 28, 292-300.	1.8	123