Leo Yu Zhang

List of Publications by Year
in descending order

71 papers	2,064 citations	257450 24 h-index
72 all docs	72 docs citations	72 times ranked

243625 44 g-index
1481 citing authors

#	Article	IF	Citations
1	From Chaos to Pseudorandomness: A Case Study on the 2-D Coupled Map Lattice. IEEE Transactions on Cybernetics, 2023, 53, 1324-1334.	9.5	12
2	A collaborative filtering algorithm based on item labels and Hellinger distance for sparse data. Journal of Information Science, 2022, 48, 749-766.	3.3	1
3	A differentially private matrix factorization based on vector perturbation for recommender system. Neurocomputing, 2022, 483, 32-41.	5.9	7
4	Natural Backdoor Attacks on Deep Neural Networks via Raindrops. Security and Communication Networks, 2022, 2022, 1-11.	1.5	3
5	Defining Security Requirements With the Common Criteria: Applications, Adoptions, and Challenges. IEEE Access, 2022, 10, 44756-44777.	4.2	13
6	Performance of the 2D Coupled Map Lattice Model and Its Application in Image Encryption. Complexity, 2022, 2022, 1-18.	1.6	0
7	Semantic-Aware Privacy-Preserving Online Location Trajectory Data Sharing. IEEE Transactions on Information Forensics and Security, 2022, 17, 2256-2271.	6.9	9
8	A new item similarity based on α-divergence for collaborative filtering in sparse data. Expert Systems With Applications, 2021, 166, 114074.	7.6	25
9	Re-Evaluation of the Security of a Family of Image Diffusion Mechanisms. IEEE Transactions on Circuits and Systems for Video Technology, 2021, 31, 4747-4758.	8.3	6
10	Shielding Federated Learning: A New Attack Approach and Its Defense. , 2021, , .		5
11	A Novel Compressive Image Encryption with an Improved 2D Coupled Map Lattice Model. Security and Communication Networks, 2021, 2021, 1-21.	1.5	6
12	Deep neural-based vulnerability discovery demystified: data, model and performance. Neural Computing and Applications, 2021, 33, 13287-13300.	5.6	12
13	An effective and efficient fuzzy approach for managing natural noise in recommender systems. Information Sciences, 2021, 570, 623-637.	6.9	7
14	You Can Access but You Cannot Leak: Defending Against Illegal Content Redistribution in Encrypted Cloud Media Center. IEEE Transactions on Dependable and Secure Computing, 2020, 17, 1218-1231.	5.4	25
15	Towards Private and Scalable Cross-Media Retrieval. IEEE Transactions on Dependable and Secure Computing, 2020, , 1-1.	5.4	7
16	A stream cipher algorithm based on 2D coupled map lattice and partitioned cellular automata. Nonlinear Dynamics, 2020, 101, 1383-1396.	5.2	24
17	A novel chaotic map constructed by geometric operations and its application. Nonlinear Dynamics, 2020, 102, 2843-2858.	5.2	18
18	Design and Analysis on a Parallel Chaos-Based Hash Function. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2020, 30, 2050188.	1.7	0

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19	A Hybrid Key Agreement Scheme for Smart Homes Using the Merkle Puzzle. IEEE Internet of Things Journal, 2020, 7, 1061-1071.	8.7	12
20	A genetic algorithm for constructing bijective substitution boxes with high nonlinearity. Information Sciences, 2020, 523, 152-166.	6.9	71
21	Informed Histogram-Based Watermarking. IEEE Signal Processing Letters, 2020, 27, 236-240.	3.6	17
22	VoterChoice: A ransomware detection honeypot with multiple voting framework. Concurrency Computation Practice and Experience, 2020, 32, e5726.	2.2	13
23	Protecting the Intellectual Property of Deep Neural Networks with Watermarking: The Frequency Domain Approach. , 2020, , .		6
24	Data Analytics of Crowdsourced Resources for Cybersecurity Intelligence. Lecture Notes in Computer Science, 2020, , 3-21.	1.3	5
25	Multimedia Security. , 2020, , 930-934.		0
26	Multimedia Security. , 2020, , 1-5.		0
27	Protecting IP of Deep Neural Networks with Watermarking: A New Label Helps. Lecture Notes in Computer Science, 2020, , 462-474.	1.3	18
28	A New Rabin-Type Cryptosystem with Modulus $$p^{2}q$$. Communications in Computer and Information Science, 2020, , 61-77.	0.5	1
29	Compressed Sensing Based Selective Encryption With Data Hiding Capability. IEEE Transactions on Industrial Informatics, 2019, 15, 6560-6571.	11.3	33
30	Compressed sensing for electrocardiogram acquisition in wireless body sensor network: A comparative analysis. International Journal of Distributed Sensor Networks, 2019, 15, 155014771986488.	2.2	7
31	Medical image cipher using hierarchical diffusion and non-sequential encryption. Nonlinear Dynamics, 2019, 96, 301-322.	5.2	50
32	Efficiently and securely outsourcing compressed sensing reconstruction to a cloud. Information Sciences, 2019, 496, 150-160.	6.9	25
33	Fast detection of maximal exact matches via fixed sampling of query K-mers and Bloom filtering of index K-mers. Bioinformatics, 2019, 35, 4560-4567.	4.1	21
34	Static malware clustering using enhanced deep embedding method. Concurrency Computation Practice and Experience, 2019, 31, e5234.	2.2	11
35	Multimedia Data Security. Springer Briefs in Electrical and Computer Engineering, 2019, , 15-62.	0.5	0
36	Dynamic Scalable Elliptic Curve Cryptographic Scheme and Its Application to In-Vehicle Security. IEEE Internet of Things Journal, 2019, 6, 5892-5901.	8.7	24

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37	Internet of Things Security. Springer Briefs in Electrical and Computer Engineering, 2019, , 83-112.	0.5	0
38	Secure Compressive Sensing in Multimedia Data, Cloud Computing and IoT. Springer Briefs in Electrical and Computer Engineering, 2019, , .	0.5	5
39	Compressive Sensing. Springer Briefs in Electrical and Computer Engineering, 2019, , 1-9.	0.5	1
40	Secure Wireless Communications Based on Compressive Sensing: A Survey. IEEE Communications Surveys and Tutorials, 2019, 21, 1093-1111.	39.4	51
41	Data-Driven Cybersecurity Incident Prediction: A Survey. IEEE Communications Surveys and Tutorials, 2019, 21, 1744-1772.	39.4	216
42	Concluding Remarks and Future Research. Springer Briefs in Electrical and Computer Engineering, 2019, , 113-115.	0.5	0
43	Optical information authentication using optical encryption and sparsity constraint. Optics and Lasers in Engineering, 2018, 107, 352-363.	3.8	13
44	Low-Cost and Confidentiality-Preserving Data Acquisition for Internet of Multimedia Things. IEEE Internet of Things Journal, 2018, 5, 3442-3451.	8.7	88
45	On the Security of a Class of Diffusion Mechanisms for Image Encryption. IEEE Transactions on Cybernetics, 2018, 48, 1163-1175.	9.5	92
46	Improved known-plaintext attack to permutation-only multimedia ciphers. Information Sciences, 2018, 430-431, 228-239.	6.9	54
47	Exploiting the Security Aspects of Compressive Sampling. Security and Communication Networks, 2018, 2018, 1-1.	1.5	0
48	A self-cited pixel summation based image encryption algorithm*. Chinese Physics B, 2017, 26, 010501.	1.4	22
49	A local search enhanced differential evolutionary algorithm for sparse recovery. Applied Soft Computing Journal, 2017, 57, 144-163.	7.2	13
50	Computation Outsourcing Meets Lossy Channel: Secure Sparse Robustness Decoding Service in Multi-Clouds. IEEE Transactions on Big Data, 2017, , 1-1.	6.1	30
51	Security Analysis of Some Diffusion Mechanisms Used in Chaotic Ciphers. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2017, 27, 1750155.	1.7	20
52	Cryptanalysis of Optical Ciphers Integrating Double Random Phase Encoding With Permutation. IEEE Access, 2017, 5, 16124-16129.	4.2	4
53	Harnessing the Hybrid Cloud for Secure Big Image Data Service. IEEE Internet of Things Journal, 2017, 4, 1380-1388.	8.7	28
54	On the Security of Optical Ciphers Under the Architecture of Compressed Sensing Combining With Double Random Phase Encoding. IEEE Photonics Journal, 2017, 9, 1-11.	2.0	5

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55	Bi-level Protected Compressive Sampling. IEEE Transactions on Multimedia, 2016, 18, 1720-1732.	7.2	78
56	A Review of Compressive Sensing in Information Security Field. IEEE Access, 2016, 4, 2507-2519.	4.2	162
57	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.	1.7	25
58	Embedding cryptographic features in compressive sensing. Neurocomputing, 2016, 205, 472-480.	5.9	101
59	Chosen-plaintext attack of an image encryption scheme based on modified permutation–diffusion structure. Nonlinear Dynamics, 2016, 84, 2241-2250.	5.2	57
60	Cryptanalyzing an image encryption algorithm based on scrambling and VeginÃ¨re cipher. Multimedia Tools and Applications, 2016, 75, 5439-5453.	3.9	13
61	Joint quantization and diffusion for compressed sensing measurements of natural images. , 2015, , .		11
62	Support-Set-Assured Parallel Outsourcing of Sparse Reconstruction Service for Compressive Sensing in Multi-clouds. , 2015, , .		6
63	Robust coding of encrypted images via structural matrix. Signal Processing: Image Communication, 2015, 39, 202-211.	3.2	21
64	Exploiting random convolution and random subsampling for image encryption and compression. Electronics Letters, 2015, 51, 1572-1574.	1.0	25
65	A chaotic image encryption scheme owning temp-value feedback. Communications in Nonlinear Science and Numerical Simulation, 2014, 19, 3653-3659.	3.3	101
66	Cryptanalyzing a class of image encryption schemes based on Chinese remainder theorem. Signal Processing: Image Communication, 2014, 29, 914-920.	3.2	34
67	BREAKING A CHAOTIC IMAGE ENCRYPTION ALGORITHM BASED ON MODULO ADDITION AND XOR OPERATION. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2013, 23, 1350075.	1.7	44
68	Breaking a novel colour image encryption algorithm based on chaos. Nonlinear Dynamics, 2012, 70, 2383-2388.	5.2	102
69	Breaking a chaotic image encryption algorithm based on perceptron model. Nonlinear Dynamics, 2012, 69, 1091-1096.	5.2	86
70	Cryptanalyzing a chaos-based image encryption algorithm using alternate structure. Journal of Systems and Software, 2012, 85, 2077-2085.	4.5	56
71	My Security: An interactive search engine for cybersecurity. , 0, , .		2