Di Xiao

List of Publications by Year
in descending order

129 papers	4,683 citations	87843 38 h-index	110317 64 g-index
129 all docs	129 docs citations	129 times ranked	2346 citing authors

#	Article	IF	Citations
1	Secure Sampling and Low-Overhead Compressive Analysis by Linear Transformation. IEEE Transactions on Circuits and Systems II: Express Briefs, 2022, 69, 639-643.	2.2	2
2	Robust Watermarking Scheme for Encrypted Images Based on Scrambling and Kronecker Compressed Sensing. IEEE Signal Processing Letters, 2022, 29, 484-488.	2.1	8
3	Decoy-state method for quantum-key-distribution-based quantum private query. Science China: Physics, Mechanics and Astronomy, 2022, 65, 1.	2.0	49
4	Double Image Encryption Scheme Based on Compressive Sensing and Double Random Phase Encoding. Mathematics, 2022, 10, 1242.	1.1	6
5	Communication-Efficient and Byzantine-Robust Differentially Private Federated Learning. IEEE Communications Letters, 2022, 26, 1725-1729.	2.5	2
6	Compressing Cipher Images by Using Semi-tensor Product Compressed Sensing and Pre-mapping. , 2022, , .		2
7	Privacy-Assured and Multi-Prior Recovered Compressed Sensing for Image Compression-Encryption Applications. , 2022, , .		0
8	Multi-level video quality services and security guarantees based on compressive sensing in sensor-cloud system. Journal of Network and Computer Applications, 2022, 205, 103456.	5.8	0
9	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
10	Cryptanalysis and improvement of a reversible data-hiding scheme in encrypted images by redundant space transfer. Information Sciences, 2021, 545, 188-206.	4.0	19
11	Low-Cost and Confidentiality-Preserving Multi-Image Compressed Acquisition and Separate Reconstruction for Internet of Multimedia Things. IEEE Internet of Things Journal, 2021, 8, 1662-1673.	5.5	16
12	Robust Coding of Encrypted Images via 2D Compressed Sensing. IEEE Transactions on Multimedia, 2021, 23, 2656-2671.	5.2	42
13	Secure Image Coding Based onÂCompressive Sensing with Optimized Rate-Distortion. Lecture Notes in Computer Science, 2021, , 125-141.	1.0	0
14	Privacy-Preserving Compressed Sensing for Image Simultaneous Compression-Encryption Applications. , 2021, , .		9
15	Low-cost and secure multi-image encryption scheme based on P-tensor product compressive sensing. Optics and Laser Technology, 2021, 140, 107077.	2.2	22
16	Three-level quantum image encryption based on Arnold transform and logistic map. Quantum Information Processing, 2021, 20, 1.	1.0	26
17	Cloud-Assisted Image Double Protection System With Encryption and Data Hiding Based on Compressive Sensing. International Journal of Digital Crime and Forensics, 2021, 13, 0-0.	0.5	0
18	Quantum image encryption algorithm based on bit-plane permutation and sine logistic map. Quantum Information Processing, 2020, 19, 1.	1.0	29

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19	A Compressive Sensing Based Image Encryption and Compression Algorithm With Identity Authentication and Blind Signcryption. IEEE Access, 2020, 8, 211676-211690.	2.6	8
20	Smart Privacy Protection for Big Video Data Storage Based on Hierarchical Edge Computing. Sensors, 2020, 20, 1517.	2.1	4
21	Low-cost and high-efficiency privacy-protection scheme for distributed compressive video sensing in wireless multimedia sensor networks. Journal of Network and Computer Applications, 2020, 161, 102654.	5.8	9
22	A Novel High-Capacity Data Hiding in Encrypted Images Based on Compressive Sensing Progressive Recovery. IEEE Signal Processing Letters, 2020, 27, 296-300.	2.1	17
23	A secure image permutationâ€“substitution framework based on chaos and compressive sensing. International Journal of Distributed Sensor Networks, 2020, 16, 155014772091294.	1.3	4
24	Block mode image encryption technique using two-fold operations based on chaos, MD5 and DNA rules. Multimedia Tools and Applications, 2019, 78, 9355-9382.	2.6	32
25	A Novel Privacy-Preserving Data Gathering Scheme in WSN Based on Compressive Sensing and Embedding. , 2019, , .		2
26	Compressing Encrypted Images by Using 2D Compressed Sensing. , 2019, , .		5
27	QKD-Based Quantum Private Query Protocol in the Single-Photon Interference Communication System. IEEE Access, 2019, 7, 104749-104758.	2.6	7
28	Privacy-Aware Controllable Compressed Data Publishing Against Sparse Estimation Attack in IoT. IEEE Internet of Things Journal, 2019, 6, 7305-7318.	5.5	5
29	Quantum Image Encryption Using Intra and Inter Bit Permutation Based on Logistic Map. IEEE Access, 2019, 7, 6937-6946.	2.6	44
30	Quantum Identity Authentication in the Counterfactual Quantum Key Distribution Protocol. Entropy, 2019, 21, 518.	1.1	12
31	Commutative fragile zero-watermarking and encryption for image integrity protection. Multimedia Tools and Applications, 2019, 78, 22727-22742.	2.6	18
32	A secure image tampering detection and self-recovery scheme using POB number system over cloud. Signal Processing, 2019, 162, 282-295.	2.1	18
33	Quantum Block Image Encryption Based on Arnold Transform and Sine Chaotification Model. IEEE Access, 2019, 7, 57188-57199.	2.6	33
34	Quantum identity authentication in the orthogonal-state-encoding QKD system. Quantum Information Processing, 2019, 18, 1.	1.0	17
35	Multimodality Image Fusion Based on Quantum Wavelet Transform and Sum-Modified-Laplacian Rule. International Journal of Theoretical Physics, 2019, 58, 734-744.	0.5	6
36	A visually secure image encryption scheme based on parallel compressive sensing. Signal Processing, 2019, 155, 218-232.	2.1	143

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37	Controllable high-capacity separable data hiding in encrypted images by compressive sensing and data pretreatment. Multimedia Tools and Applications, 2018, 77, 23949-23968.	2.6	4
38	Cryptanalysis and enhancements of image encryption using combination of the 1D chaotic map. Signal Processing, 2018, 144, 444-452.	2.1	151
39	Double Quantum Image Encryption Based on Arnold Transform and Qubit Random Rotation. Entropy, 2018, 20, 867.	1.1	20
40	A VQ-Based Joint Fingerprinting and Decryption Scheme for Secure and Efficient Image Distribution. Security and Communication Networks, 2018, 2018, 1-11.	1.0	4
41	Meaningful Image Encryption Based on Reversible Data Hiding in Compressive Sensing Domain. Security and Communication Networks, 2018, 2018, 1-12.	1.0	8
42	A Novel Image Authentication with Tamper Localization and Self-Recovery in Encrypted Domain Based on Compressive Sensing. Security and Communication Networks, 2018, 2018, 1-15.	1.0	12
43	A Verifiable Secret Image Sharing Scheme Based on Compressive Sensing. Wuhan University Journal of Natural Sciences, 2018, 23, 219-224.	0.2	5
44	A watermarking algorithm in encrypted image based on compressive sensing with high quality image reconstruction and watermark performance. Multimedia Tools and Applications, 2017, 76, 9265-9296.	2.6	20
45	Cryptanalysis of a chaotic image cipher using Latin square-based confusion and diffusion. Nonlinear Dynamics, 2017, 88, 1305-1316.	2.7	60
46	Multi-focus image fusion and robust encryption algorithm based on compressive sensing. Optics and Laser Technology, 2017, 91, 212-225.	2.2	33
47	An image coding scheme using parallel compressive sensing for simultaneous compression-encryption applications. Journal of Visual Communication and Image Representation, 2017, 44, 116-127.	1.7	100
48	Separable reversible data hiding in encrypted image based on pixel value ordering and additive homomorphism. Journal of Visual Communication and Image Representation, 2017, 45, 1-10.	1.7	76
49	Quantum private comparison employing single-photon interference. Quantum Information Processing, 2017, 16, 1.	1.0	18
50	RDH in BCS images based on block edge pixel separation. Electronics Letters, 2017, 53, 18-20.	0.5	3
51	Securing image information using double random phase encoding and parallel compressive sensing with updated sampling processes. Optics and Lasers in Engineering, 2017, 98, 123-133.	2.0	30
52	An efficient chaotic image cipher with dynamic lookup table driven bit-level permutation strategy. Nonlinear Dynamics, 2017, 87, 1359-1375.	2.7	32
53	High-payload completely reversible data hiding in encrypted images by an interpolation technique. Frontiers of Information Technology and Electronic Engineering, 2017, 18, 1732-1743.	1.5	10
54	Reversible Data Hiding in Block Compressed Sensing Images. ETRI Journal, 2016, 38, 159-163.	1.2	11

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55	High-capacity separable data hiding in encrypted image based on compressive sensing. Multimedia Tools and Applications, 2016, 75, 13779-13789.	2.6	15
56	A recoverable chaosâ€based fragile watermarking with high PSNR preservation. Security and Communication Networks, 2016, 9, 2371-2386.	1.0	5
57	Perturbation meets keyâ€based interval splitting arithmetic coding: security enhancement and chaos generalization. Security and Communication Networks, 2016, 9, 43-53.	1.0	4
58	Comment on â€œQuantum oblivious set-member decision protocolâ€• Physical Review A, 2016, 93, .	1.0	1
59	Chaotic Image Encryption of Regions of Interest. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2016, 26, 1650193.	0.7	25
60	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
61	Embedding cryptographic features in compressive sensing. Neurocomputing, 2016, 205, 472-480.	3.5	101
62	Collusive attacks to â€œcircle-typeâ€•multi-party quantum key agreement protocols. Quantum Information Processing, 2016, 15, 2113-2124.	1.0	55
63	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
64	Robust image hashing with tampering recovery capability via low-rank and sparse representation. Multimedia Tools and Applications, 2016, 75, 7681-7696.	2.6	15
65	An efficient and noise resistive selective image encryption scheme for gray images based on chaotic maps and DNA complementary rules. Multimedia Tools and Applications, 2016, 75, 1-23.	2.6	259
66	Securely compressive sensing using double random phase encoding. Optik, 2015, 126, 2663-2670.	1.4	25
67	Improved reversible data hiding for encrypted images using full embedding strategy. Electronics Letters, 2015, 51, 690-691.	0.5	21
68	Secure binary arithmetic coding based on digitalized modified logistic map and linear feedback shift register. Communications in Nonlinear Science and Numerical Simulation, 2015, 27, 22-29.	1.7	13
69	Reversible data hiding in encrypted images using cross division and additive homomorphism. Signal Processing: Image Communication, 2015, 39, 234-248.	1.8	75
70	Cryptanalysis of a secure chaotic map based block cryptosystem with application to camera sensor networks. Multimedia Tools and Applications, 2015, 74, 10873-10881.	2.6	2
71	A high capacity combined reversible watermarking scheme for 2-D CAD engineering graphics. Multimedia Tools and Applications, 2015, 74, 2109-2126.	2.6	17
72	A reversible image authentication scheme based on compressive sensing. Multimedia Tools and Applications, 2015, 74, 7729-7752.	2.6	22

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73	On the security of symmetric ciphers based on DNA coding. Information Sciences, 2014, 289, 254-261.	4.0	55
74	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
75	Joint SPIHT compression and selective encryption. Applied Soft Computing Journal, 2014, 21, 159-170.	4.1	42
76	Cryptanalyzing a novel image cipher based on mixed transformed logistic maps. Multimedia Tools and Applications, 2014, 73, 1885-1896.	2.6	25
77	Separable data hiding in encrypted image based on compressive sensing. Electronics Letters, 2014, 50, 598-600.	0.5	27
78	GLS coding based security solution to JPEG with the structure of aggregated compression and encryption. Communications in Nonlinear Science and Numerical Simulation, 2014, 19, 1366-1374.	1.7	28
79	Cryptanalysis of image scrambling based on chaotic sequences and VigenÃ¨re cipher. Nonlinear Dynamics, 2014, 78, 235-240.	2.7	35
80	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
81	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
82	Attack and improvement of the joint fingerprinting and decryption method for vector quantization images. Signal Processing, 2014, 99, 17-28.	2.1	13
83	A Modified Reversible Data Hiding in Encrypted Images Using Random Diffusion and Accurate Prediction. ETRI Journal, 2014, 36, 325-328.	1.2	27
84	Cryptanalysis of S-box-only chaotic image ciphers against chosen plaintext attack. Nonlinear Dynamics, 2013, 72, 751-756.	2.7	67
85	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
86	Vulnerability to chosen-plaintext attack of a general optical encryption model with the architecture of scrambling-then-double random phase encoding. Optics Letters, 2013, 38, 4506.	1.7	65
87	Improvement and performance analysis of a novel hash function based on chaotic neural network. Neural Computing and Applications, 2013, 22, 391-402.	3.2	11
88	Edge-based lightweight image encryption using chaos-based reversible hidden transform and multiple-order discrete fractional cosine transform. Optics and Laser Technology, 2013, 54, 1-6.	2.2	49
89	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
90	Discrete-time Markov Model for Wireless Link Burstiness Simulations. Wireless Personal Communications, 2013, 72, 987-1004.	1.8	3

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91	Communication Energy Modeling and Optimization through Joint Packet Size Analysis of BSN and WiFi Networks. IEEE Transactions on Parallel and Distributed Systems, 2013, 24, 1741-1751.	4.0	39
92	Analysis and Improvement of an Efficient and Secure Key Agreement Protocol. , 2013, , .		1
93	SECRET IMAGE SHARING BASED ON CHAOTIC MAP AND CHINESE REMAINDER THEOREM. International Journal of Wavelets, Multiresolution and Information Processing, 2012, 10, 1250023.	0.9	26
94	Using the Self-Synchronizing Method to Improve Security of the Multi-Chaotic Systems-Based Image Encryption. , 2012, , 343-355.		0
95	Parallel chaotic Hash function construction based on cellular neural network. Neural Computing and Applications, 2012, 21, 1563-1573.	3.2	9
96	A reversible two-level image authentication scheme based on chaotic fragile watermark. , 2012, , .		1
97	On the security analysis of an image scrambling encryption of pixel bit and its improved scheme based on self-correlation encryption. Communications in Nonlinear Science and Numerical Simulation, 2012, 17, 3303-3327.	1.7	44
98	Keyed hash function based on a dynamic lookup table of functions. Information Sciences, 2012, 214, 56-75.	4.0	20
99	An improved hierarchical fragile watermarking scheme using chaotic sequence sorting and subblock post-processing. Optics Communications, 2012, 285, 2596-2606.	1.0	19
100	Energy modeling and optimization through joint packet size analysis of BSN and WiFi networks. , 2011, , .		8
101	A novel Hash algorithm construction based on chaotic neural network. Neural Computing and Applications, 2011, 20, 133-141.	3.2	110
102	Parallel Hash function construction based on chaotic maps with changeable parameters. Neural Computing and Applications, 2011, 20, 1305-1312.	3.2	29
103	Parallel hash function construction based on coupled map lattices. Communications in Nonlinear Science and Numerical Simulation, 2011, 16, 2810-2821.	1.7	44
104	Analysis and improvement of a hash-based image encryption algorithm. Communications in Nonlinear Science and Numerical Simulation, 2011, 16, 3269-3278.	1.7	20
105	Chaos Based Hash Function. Studies in Computational Intelligence, 2011, , 137-203.	0.7	4
106	HASH FUNCTION CONSTRUCTION BASED ON THE CHAOTIC LOOK-UP TABLE WITH CHANGEABLE PARAMETER. International Journal of Modern Physics B, 2011, 25, 3835-3851.	1.0	4
107	Cryptanalysis on an Image Scrambling Encryption Scheme Based on Pixel Bit. Lecture Notes in Computer Science, 2011, , 45-59.	1.0	2
108	Collision analysis of one kind of chaos-based hash function. Physics Letters, Section A: General, Atomic and Solid State Physics, 2010, 374, 1228-1231.	0.9	18

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109	Using the self-synchronizing method to improve security of the multi chaotic systems-based image encryption. Optics Communications, 2010, 283, 3030-3036.	1.0	28
110	Analysis and improvement of a chaos-based Hash function construction. Communications in Nonlinear Science and Numerical Simulation, 2010, 15, 1338-1347.	1.7	74
111	A chaos-based hash function with both modification detection and localization capabilities. Communications in Nonlinear Science and Numerical Simulation, 2010, 15, 2254-2261.	1.7	62
112	Image Encryption Design Based on Multi-Dimensional Matrix Map and Partitioning Substitution and Diffusion-Integration Substitution Network Structure. , 2010, , .		2
113	Cryptanalysis of an image scrambling algorithm based on Logistic chaotic sequence. Journal of Computer Applications, 2010, 30, 1815-1817.	0.1	0
114	Parallel keyed hash function construction based on chaotic neural network. Neurocomputing, 2009, 72, 2288-2296.	3.5	62
115	Analysis and improvement of a chaos-based image encryption algorithm. Chaos, Solitons and Fractals, 2009, 40, 2191-2199.	2.5	214
116	Improving the security of a parallel keyed hash function based on chaotic maps. Physics Letters, Section A: General, Atomic and Solid State Physics, 2009, 373, 4346-4353.	0.9	28
117	True random number generation from mobile telephone photo based on chaotic cryptography. Chaos, Solitons and Fractals, 2009, 42, 1692-1699.	2.5	26
118	A novel combined cryptographic and hash algorithm based on chaotic control character. Communications in Nonlinear Science and Numerical Simulation, 2009, 14, 3889-3900.	1.7	21
119	True random number generator based on mouse movement and chaotic hash function. Information Sciences, 2009, 179, 3442-3450.	4.0	41
120	Parallel keyed hash function construction based on chaotic maps. Physics Letters, Section A: General, Atomic and Solid State Physics, 2008, 372, 4682-4688.	0.9	63
121	One-way hash function construction based on 2D coupled map lattices. Information Sciences, 2008, 178, 1391-1406.	4.0	98
122	Using time-stamp to improve the security of a chaotic maps-based key agreement protocol. Information Sciences, 2008, 178, 1598-1602.	4.0	58
123	A novel key agreement protocol based on chaotic maps. Information Sciences, 2007, 177, 1136-1142.	4.0	162
124	Improving the security of a dynamic look-up table based chaotic cryptosystem. IEEE Transactions on Circuits and Systems Part 2: Express Briefs, 2006, 53, 502-506.	2.3	27
125	One-way Hash function construction based on the chaotic map with changeable-parameter. Chaos, Solitons and Fractals, 2005, 24, 65-71.	2.5	115
126	An efficient entire chaos-based scheme for deniable authentication. Chaos, Solitons and Fractals, 2005, 23, 1327-1331.	2.5	67

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127	An efficient entire chaos-based scheme for deniable authentication. Chaos, Solitons and Fractals, 2005, 23, 1327-1331.	2.5	36
128	One-way Hash function construction based on the chaotic map with changeable-parameter. Chaos, Solitons and Fractals, 2005, 24, 65-71.	2.5	95
129	A secure communication scheme based on symbolic dynamics. , 2004, , .		3