

Di Xiao

List of Publications by Year in descending order

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129
papers

4,683
citations

87843

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docs citations

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times ranked

2346
citing authors

#	ARTICLE	IF	CITATIONS
1	An efficient and noise resistive selective image encryption scheme for gray images based on chaotic maps and DNA complementary rules. <i>Multimedia Tools and Applications</i> , 2016, 75, 1-23.	2.6	259
2	Analysis and improvement of a chaos-based image encryption algorithm. <i>Chaos, Solitons and Fractals</i> , 2009, 40, 2191-2199.	2.5	214
3	An image encryption scheme based on rotation matrix bit-level permutation and block diffusion. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2014, 19, 74-82.	1.7	184
4	Double optical image encryption using discrete Chirikov standard map and chaos-based fractional random transform. <i>Optics and Lasers in Engineering</i> , 2013, 51, 472-480.	2.0	179
5	A novel key agreement protocol based on chaotic maps. <i>Information Sciences</i> , 2007, 177, 1136-1142.	4.0	162
6	Cryptanalysis and enhancements of image encryption using combination of the 1D chaotic map. <i>Signal Processing</i> , 2018, 144, 444-452.	2.1	151
7	A visually secure image encryption scheme based on parallel compressive sensing. <i>Signal Processing</i> , 2019, 155, 218-232.	2.1	143
8	A novel image encryption scheme based on a linear hyperbolic chaotic system of partial differential equations. <i>Signal Processing: Image Communication</i> , 2013, 28, 292-300.	1.8	123
9	One-way Hash function construction based on the chaotic map with changeable-parameter. <i>Chaos, Solitons and Fractals</i> , 2005, 24, 65-71.	2.5	115
10	A novel Hash algorithm construction based on chaotic neural network. <i>Neural Computing and Applications</i> , 2011, 20, 133-141.	3.2	110
11	Embedding cryptographic features in compressive sensing. <i>Neurocomputing</i> , 2016, 205, 472-480.	3.5	101
12	An image coding scheme using parallel compressive sensing for simultaneous compression-encryption applications. <i>Journal of Visual Communication and Image Representation</i> , 2017, 44, 116-127.	1.7	100
13	One-way hash function construction based on 2D coupled map lattices. <i>Information Sciences</i> , 2008, 178, 1391-1406.	4.0	98
14	One-way Hash function construction based on the chaotic map with changeable-parameter. <i>Chaos, Solitons and Fractals</i> , 2005, 24, 65-71.	2.5	95
15	Separable reversible data hiding in encrypted image based on pixel value ordering and additive homomorphism. <i>Journal of Visual Communication and Image Representation</i> , 2017, 45, 1-10.	1.7	76
16	Reversible data hiding in encrypted images using cross division and additive homomorphism. <i>Signal Processing: Image Communication</i> , 2015, 39, 234-248.	1.8	75
17	Analysis and improvement of a chaos-based Hash function construction. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2010, 15, 1338-1347.	1.7	74
18	Self-adaptive permutation and combined global diffusion for chaotic color image encryption. <i>AEU - International Journal of Electronics and Communications</i> , 2014, 68, 361-368.	1.7	71

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19	An efficient entire chaos-based scheme for deniable authentication. <i>Chaos, Solitons and Fractals</i> , 2005, 23, 1327-1331.	2.5	67
20	Cryptanalysis of S-box-only chaotic image ciphers against chosen plaintext attack. <i>Nonlinear Dynamics</i> , 2013, 72, 751-756.	2.7	67
21	Vulnerability to chosen-plaintext attack of a general optical encryption model with the architecture of scrambling-then-double random phase encoding. <i>Optics Letters</i> , 2013, 38, 4506.	1.7	65
22	Parallel keyed hash function construction based on chaotic maps. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2008, 372, 4682-4688.	0.9	63
23	Parallel keyed hash function construction based on chaotic neural network. <i>Neurocomputing</i> , 2009, 72, 2288-2296.	3.5	62
24	A chaos-based hash function with both modification detection and localization capabilities. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2010, 15, 2254-2261.	1.7	62
25	Breaking an image encryption algorithm based on hyper-chaotic system with only one round diffusion process. <i>Nonlinear Dynamics</i> , 2014, 76, 1645-1650.	2.7	61
26	Cryptanalysis of a chaotic image cipher using Latin square-based confusion and diffusion. <i>Nonlinear Dynamics</i> , 2017, 88, 1305-1316.	2.7	60
27	Using time-stamp to improve the security of a chaotic maps-based key agreement protocol. <i>Information Sciences</i> , 2008, 178, 1598-1602.	4.0	58
28	On the security of symmetric ciphers based on DNA coding. <i>Information Sciences</i> , 2014, 289, 254-261.	4.0	55
29	Collusive attacks to Λ -type multi-party quantum key agreement protocols. <i>Quantum Information Processing</i> , 2016, 15, 2113-2124.	1.0	55
30	Edge-based lightweight image encryption using chaos-based reversible hidden transform and multiple-order discrete fractional cosine transform. <i>Optics and Laser Technology</i> , 2013, 54, 1-6.	2.2	49
31	Decoy-state method for quantum-key-distribution-based quantum private query. <i>Science China: Physics, Mechanics and Astronomy</i> , 2022, 65, 1.	2.0	49
32	Parallel hash function construction based on coupled map lattices. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2011, 16, 2810-2821.	1.7	44
33	On the security analysis of an image scrambling encryption of pixel bit and its improved scheme based on self-correlation encryption. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2012, 17, 3303-3327.	1.7	44
34	Quantum Image Encryption Using Intra and Inter Bit Permutation Based on Logistic Map. <i>IEEE Access</i> , 2019, 7, 6937-6946.	2.6	44
35	Joint SPIHT compression and selective encryption. <i>Applied Soft Computing Journal</i> , 2014, 21, 159-170.	4.1	42
36	Robust Coding of Encrypted Images via 2D Compressed Sensing. <i>IEEE Transactions on Multimedia</i> , 2021, 23, 2656-2671.	5.2	42

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37	True random number generator based on mouse movement and chaotic hash function. Information Sciences, 2009, 179, 3442-3450.	4.0	41
38	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
39	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
40	An efficient entire chaos-based scheme for deniable authentication. Chaos, Solitons and Fractals, 2005, 23, 1327-1331.	2.5	36
41	Cryptanalysis of image scrambling based on chaotic sequences and Vigenère cipher. Nonlinear Dynamics, 2014, 78, 235-240.	2.7	35
42	Multi-focus image fusion and robust encryption algorithm based on compressive sensing. Optics and Laser Technology, 2017, 91, 212-225.	2.2	33
43	Quantum Block Image Encryption Based on Arnold Transform and Sine Chaotification Model. IEEE Access, 2019, 7, 57188-57199.	2.6	33
44	An efficient chaotic image cipher with dynamic lookup table driven bit-level permutation strategy. Nonlinear Dynamics, 2017, 87, 1359-1375.	2.7	32
45	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
46	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
47	Parallel Hash function construction based on chaotic maps with changeable parameters. Neural Computing and Applications, 2011, 20, 1305-1312.	3.2	29
48	Quantum image encryption algorithm based on bit-plane permutation and sine logistic map. Quantum Information Processing, 2020, 19, 1.	1.0	29
49	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
50	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
51	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
52	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
53	Separable data hiding in encrypted image based on compressive sensing. Electronics Letters, 2014, 50, 598-600.	0.5	27
54	A Modified Reversible Data Hiding in Encrypted Images Using Random Diffusion and Accurate Prediction. ETRI Journal, 2014, 36, 325-328.	1.2	27

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55	True random number generation from mobile telephone photo based on chaotic cryptography. <i>Chaos, Solitons and Fractals</i> , 2009, 42, 1692-1699.	2.5	26
56	SECRET IMAGE SHARING BASED ON CHAOTIC MAP AND CHINESE REMAINDER THEOREM. <i>International Journal of Wavelets, Multiresolution and Information Processing</i> , 2012, 10, 1250023.	0.9	26
57	Three-level quantum image encryption based on Arnold transform and logistic map. <i>Quantum Information Processing</i> , 2021, 20, 1.	1.0	26
58	Cryptanalyzing a novel image cipher based on mixed transformed logistic maps. <i>Multimedia Tools and Applications</i> , 2014, 73, 1885-1896.	2.6	25
59	Securely compressive sensing using double random phase encoding. <i>Optik</i> , 2015, 126, 2663-2670.	1.4	25
60	Chaotic Image Encryption of Regions of Interest. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2016, 26, 1650193.	0.7	25
61	A Block Compressive Sensing Based Scalable Encryption Framework for Protecting Significant Image Regions. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2016, 26, 1650191.	0.7	25
62	A reversible image authentication scheme based on compressive sensing. <i>Multimedia Tools and Applications</i> , 2015, 74, 7729-7752.	2.6	22
63	Low-cost and secure multi-image encryption scheme based on P-tensor product compressive sensing. <i>Optics and Laser Technology</i> , 2021, 140, 107077.	2.2	22
64	A novel combined cryptographic and hash algorithm based on chaotic control character. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2009, 14, 3889-3900.	1.7	21
65	Improved reversible data hiding for encrypted images using full embedding strategy. <i>Electronics Letters</i> , 2015, 51, 690-691.	0.5	21
66	Analysis and improvement of a hash-based image encryption algorithm. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2011, 16, 3269-3278.	1.7	20
67	Keyed hash function based on a dynamic lookup table of functions. <i>Information Sciences</i> , 2012, 214, 56-75.	4.0	20
68	A watermarking algorithm in encrypted image based on compressive sensing with high quality image reconstruction and watermark performance. <i>Multimedia Tools and Applications</i> , 2017, 76, 9265-9296.	2.6	20
69	Double Quantum Image Encryption Based on Arnold Transform and Qubit Random Rotation. <i>Entropy</i> , 2018, 20, 867.	1.1	20
70	An improved hierarchical fragile watermarking scheme using chaotic sequence sorting and subblock post-processing. <i>Optics Communications</i> , 2012, 285, 2596-2606.	1.0	19
71	Cryptanalysis and improvement of a reversible data-hiding scheme in encrypted images by redundant space transfer. <i>Information Sciences</i> , 2021, 545, 188-206.	4.0	19
72	Collision analysis of one kind of chaos-based hash function. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2010, 374, 1228-1231.	0.9	18

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73	Quantum private comparison employing single-photon interference. <i>Quantum Information Processing</i> , 2017, 16, 1.	1.0	18
74	Commutative fragile zero-watermarking and encryption for image integrity protection. <i>Multimedia Tools and Applications</i> , 2019, 78, 22727-22742.	2.6	18
75	A secure image tampering detection and self-recovery scheme using POB number system over cloud. <i>Signal Processing</i> , 2019, 162, 282-295.	2.1	18
76	A high capacity combined reversible watermarking scheme for 2-D CAD engineering graphics. <i>Multimedia Tools and Applications</i> , 2015, 74, 2109-2126.	2.6	17
77	Quantum identity authentication in the orthogonal-state-encoding QKD system. <i>Quantum Information Processing</i> , 2019, 18, 1.	1.0	17
78	A Novel High-Capacity Data Hiding in Encrypted Images Based on Compressive Sensing Progressive Recovery. <i>IEEE Signal Processing Letters</i> , 2020, 27, 296-300.	2.1	17
79	Low-Cost and Confidentiality-Preserving Multi-Image Compressed Acquisition and Separate Reconstruction for Internet of Multimedia Things. <i>IEEE Internet of Things Journal</i> , 2021, 8, 1662-1673.	5.5	16
80	High-capacity separable data hiding in encrypted image based on compressive sensing. <i>Multimedia Tools and Applications</i> , 2016, 75, 13779-13789.	2.6	15
81	Robust image hashing with tampering recovery capability via low-rank and sparse representation. <i>Multimedia Tools and Applications</i> , 2016, 75, 7681-7696.	2.6	15
82	Attack and improvement of the joint fingerprinting and decryption method for vector quantization images. <i>Signal Processing</i> , 2014, 99, 17-28.	2.1	13
83	Secure binary arithmetic coding based on digitalized modified logistic map and linear feedback shift register. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2015, 27, 22-29.	1.7	13
84	A Novel Image Authentication with Tamper Localization and Self-Recovery in Encrypted Domain Based on Compressive Sensing. <i>Security and Communication Networks</i> , 2018, 2018, 1-15.	1.0	12
85	Quantum Identity Authentication in the Counterfactual Quantum Key Distribution Protocol. <i>Entropy</i> , 2019, 21, 518.	1.1	12
86	Improvement and performance analysis of a novel hash function based on chaotic neural network. <i>Neural Computing and Applications</i> , 2013, 22, 391-402.	3.2	11
87	Reversible Data Hiding in Block Compressed Sensing Images. <i>ETRI Journal</i> , 2016, 38, 159-163.	1.2	11
88	High-payload completely reversible data hiding in encrypted images by an interpolation technique. <i>Frontiers of Information Technology and Electronic Engineering</i> , 2017, 18, 1732-1743.	1.5	10
89	Parallel chaotic Hash function construction based on cellular neural network. <i>Neural Computing and Applications</i> , 2012, 21, 1563-1573.	3.2	9
90	Low-cost and high-efficiency privacy-protection scheme for distributed compressive video sensing in wireless multimedia sensor networks. <i>Journal of Network and Computer Applications</i> , 2020, 161, 102654.	5.8	9

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91	Privacy-Preserving Compressed Sensing for Image Simultaneous Compression-Encryption Applications. , 2021, , .		9
92	Energy modeling and optimization through joint packet size analysis of BSN and WiFi networks. , 2011, , .		8
93	Meaningful Image Encryption Based on Reversible Data Hiding in Compressive Sensing Domain. Security and Communication Networks, 2018, 2018, 1-12.	1.0	8
94	A Compressive Sensing Based Image Encryption and Compression Algorithm With Identity Authentication and Blind Signcryption. IEEE Access, 2020, 8, 211676-211690.	2.6	8
95	Robust Watermarking Scheme for Encrypted Images Based on Scrambling and Kronecker Compressed Sensing. IEEE Signal Processing Letters, 2022, 29, 484-488.	2.1	8
96	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
97	QKD-Based Quantum Private Query Protocol in the Single-Photon Interference Communication System. IEEE Access, 2019, 7, 104749-104758.	2.6	7
98	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
99	Double Image Encryption Scheme Based on Compressive Sensing and Double Random Phase Encoding. Mathematics, 2022, 10, 1242.	1.1	6
100	A recoverable chaos-based fragile watermarking with high PSNR preservation. Security and Communication Networks, 2016, 9, 2371-2386.	1.0	5
101	A Verifiable Secret Image Sharing Scheme Based on Compressive Sensing. Wuhan University Journal of Natural Sciences, 2018, 23, 219-224.	0.2	5
102	Compressing Encrypted Images by Using 2D Compressed Sensing. , 2019, , .		5
103	Privacy-Aware Controllable Compressed Data Publishing Against Sparse Estimation Attack in IoT. IEEE Internet of Things Journal, 2019, 6, 7305-7318.	5.5	5
104	Chaos Based Hash Function. Studies in Computational Intelligence, 2011, , 137-203.	0.7	4
105	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
106	Perturbation meets key-based interval splitting arithmetic coding: security enhancement and chaos generalization. Security and Communication Networks, 2016, 9, 43-53.	1.0	4
107	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
108	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

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109	Smart Privacy Protection for Big Video Data Storage Based on Hierarchical Edge Computing. <i>Sensors</i> , 2020, 20, 1517.	2.1	4
110	A secure image permutation“substitution framework based on chaos and compressive sensing. <i>International Journal of Distributed Sensor Networks</i> , 2020, 16, 155014772091294.	1.3	4
111	A secure communication scheme based on symbolic dynamics. , 2004, , .		3
112	Discrete-time Markov Model for Wireless Link Burstiness Simulations. <i>Wireless Personal Communications</i> , 2013, 72, 987-1004.	1.8	3
113	RDH in BCS images based on block edge pixel separation. <i>Electronics Letters</i> , 2017, 53, 18-20.	0.5	3
114	Image Encryption Design Based on Multi-Dimensional Matrix Map and Partitioning Substitution and Diffusion-Integration Substitution Network Structure. , 2010, , .		2
115	Cryptanalysis of a secure chaotic map based block cryptosystem with application to camera sensor networks. <i>Multimedia Tools and Applications</i> , 2015, 74, 10873-10881.	2.6	2
116	A Novel Privacy-Preserving Data Gathering Scheme in WSN Based on Compressive Sensing and Embedding. , 2019, , .		2
117	Secure Sampling and Low-Overhead Compressive Analysis by Linear Transformation. <i>IEEE Transactions on Circuits and Systems II: Express Briefs</i> , 2022, 69, 639-643.	2.2	2
118	Cryptanalysis on an Image Scrambling Encryption Scheme Based on Pixel Bit. <i>Lecture Notes in Computer Science</i> , 2011, , 45-59.	1.0	2
119	Communication-Efficient and Byzantine-Robust Differentially Private Federated Learning. <i>IEEE Communications Letters</i> , 2022, 26, 1725-1729.	2.5	2
120	Compressing Cipher Images by Using Semi-tensor Product Compressed Sensing and Pre-mapping. , 2022, , .		2
121	A reversible two-level image authentication scheme based on chaotic fragile watermark. , 2012, , .		1
122	Analysis and Improvement of an Efficient and Secure Key Agreement Protocol. , 2013, , .		1
123	Comment on “Quantum oblivious set-member decision protocol” <i>Physical Review A</i> , 2016, 93, .	1.0	1
124	Using the Self-Synchronizing Method to Improve Security of the Multi-Chaotic Systems-Based Image Encryption. , 2012, , 343-355.		0
125	Secure Image Coding Based on Compressive Sensing with Optimized Rate-Distortion. <i>Lecture Notes in Computer Science</i> , 2021, , 125-141.	1.0	0
126	Cryptanalysis of an image scrambling algorithm based on Logistic chaotic sequence. <i>Journal of Computer Applications</i> , 2010, 30, 1815-1817.	0.1	0

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127	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
128	Privacy-Assured and Multi-Prior Recovered Compressed Sensing for Image Compression-Encryption Applications. , 2022, , .		0
129	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