Hai Yu

List of Publications by Year
in descending order

102 papers	2,586 citations	236925 25 h-index	197818 49 g-index
103 all docs	103 docs citations	103 times ranked	1776 citing authors

#	Article	IF	Citations
1	A chaos-based symmetric image encryption scheme using a bit-level permutation. Information Sciences, 2011, 181, 1171-1186.	6.9	557
2	Image encryption based on three-dimensional bit matrix permutation. Signal Processing, 2016, 118, 36-50.	3.7	186
3	A symmetric color image encryption algorithm using the intrinsic features of bit distributions. Communications in Nonlinear Science and Numerical Simulation, 2013, 18, 584-600.	3.3	135
4	A fast chaos-based image encryption scheme with a dynamic state variables selection mechanism. Communications in Nonlinear Science and Numerical Simulation, 2015, 20, 846-860.	3.3	131
5	An image encryption scheme using reverse 2-dimensional chaotic map and dependent diffusion. Communications in Nonlinear Science and Numerical Simulation, 2013, 18, 2066-2080.	3.3	111
6	Fast Single Image Super-Resolution via Self-Example Learning and Sparse Representation. IEEE Transactions on Multimedia, 2014, 16, 2178-2190.	7.2	110
7	An image encryption algorithm based on compound homogeneous hyper-chaotic system. Nonlinear Dynamics, 2017, 89, 61-79.	5.2	76
8	An efficient image encryption scheme using gray code based permutation approach. Optics and Lasers in Engineering, 2015, 67, 191-204.	3.8	71
9	A novel double-image encryption scheme based on cross-image pixel scrambling in gyrator domains. Optics Express, 2014, 22, 7349.	3.4	67
10	A fast image encryption scheme with a novel pixel swapping-based confusion approach. Nonlinear Dynamics, 2014, 77, 1191-1207.	5.2	67
11	Analysis and improvement of a double-image encryption scheme using pixel scrambling technique in gyrator domains. Optics and Lasers in Engineering, 2015, 66, 1-9.	3.8	65
12	Hot Topic Detection Based on a Refined TF-IDF Algorithm. IEEE Access, 2019, 7, 26996-27007.	4.2	63
13	An image encryption scheme using self-adaptive selective permutation and inter-intra-block feedback diffusion. Signal Processing, 2018, 151, 130-143.	3.7	52
14	Reusing the permutation matrix dynamically for efficient image cryptographic algorithm. Signal Processing, 2015, 111, 294-307.	3.7	50
15	An improved permutation-diffusion type image cipher with a chaotic orbit perturbing mechanism. Optics Express, 2013, 21, 27873.	3.4	49
16	Do the dependency conflicts in my project matter?. , 2018, , .		43
17	An image encryption scheme using lightweight bit-level confusion and cascade cross circular diffusion. Optics Communications, 2012, 285, 2343-2354.	2.1	40
18	A new pipe routing method for aero-engines based on genetic algorithm. Proceedings of the Institution of Mechanical Engineers, Part G: Journal of Aerospace Engineering, 2014, 228, 424-434.	1.3	40

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19	Optical image encryption scheme using 3-D chaotic map based joint image scrambling and random encoding in gyrator domains. Optics Communications, 2015, 341, 263-270.	2.1	39
20	Gyrator transform based double random phase encoding with sparse representation for information authentication. Optics and Laser Technology, 2015, 70, 50-58.	4.6	37
21	A Novel Image Encryption Scheme Using the Composite Discrete Chaotic System. Entropy, 2016, 18, 276.	2.2	36
22	Decomposition analysis of energy-related carbon dioxide emissions in the iron and steel industry in China. Frontiers of Environmental Science and Engineering, 2012, 6, 265-270.	6.0	31
23	A fast chaos-based symmetric image cryptosystem with an improved diffusion scheme. Optik, 2014, 125, 2472-2478.	2.9	31
24	Joint image compression–encryption scheme using entropy coding and compressive sensing. Nonlinear Dynamics, 2019, 95, 2235-2261.	5.2	31
25	Watchman. , 2020, , .		30
26	A Symmetric Image Encryption Algorithm Based on a Coupled Logistic–Bernoulli Map and Cellular Automata Diffusion Strategy. Entropy, 2019, 21, 504.	2.2	29
27	Color image encryption based on paired interpermuting planes. Optics Communications, 2015, 338, 199-208.	2.1	28
28	Automatic Software Refactoring via Weighted Clustering in Method-Level Networks. IEEE Transactions on Software Engineering, 2018, 44, 202-236.	5.6	24
29	A security improved image encryption scheme based on chaotic Baker map and hyperchaotic Lorenz system. International Journal of Computational Science and Engineering, 2016, 12, 113.	0.5	21
30	Optimization of cascading failure on complex network based on NNIA. Physica A: Statistical Mechanics and Its Applications, 2018, 501, 42-51.	2.6	19
31	A Dynamic Personalized News Recommendation System Based on BAP User Profiling Method. IEEE Access, 2018, 6, 41068-41078.	4.2	17
32	Evolutionary Game Dynamics of the Competitive Information Propagation on Social Networks. Complexity, 2019, 2019, 1-11.	1.6	17
33	Hybrid method combining superpixel, random walk and active contour model for fast and accurate liver segmentation. Computerized Medical Imaging and Graphics, 2018, 70, 119-134.	5.8	15
34	Efficient and Secure Image Encryption Algorithm Using a Novel Key-Substitution Architecture. IEEE Access, 2019, 7, 84386-84400.	4.2	14
35	Watershed-Based Superpixels With Global and Local Boundary Marching. IEEE Transactions on Image Processing, 2020, 29, 7375-7388.	9.8	14
36	Improved online fountain codes. IET Communications, 2018, 12, 2297-2304.	2.2	13

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37	An Image Encryption Algorithm Based on Random Hamiltonian Path. Entropy, 2020, 22, 73.	2.2	13
38	Will Dependency Conflicts Affect My Program's Semantics?. IEEE Transactions on Software Engineering, 2022, 48, 2295-2316.	5.6	13
39	Flocking in Multi-agent Systems with a Bounded Control Input. , 2009, , .		12
40	Using reliability risk analysis to prioritize test cases. Journal of Systems and Software, 2018, 139, 14-31.	4.5	11
41	Integral sliding mode controller design for congestion problem in ATM networks. International Journal of Control, 2013, 86, 529-539.	1.9	10
42	An Efficient Diffusion Scheme for Chaos-Based Digital Image Encryption. Mathematical Problems in Engineering, 2014, 2014, 1-13.	1.1	9
43	Modeling and analyzing cascading dynamics of the Internet based on local congestion information. Physica A: Statistical Mechanics and Its Applications, 2018, 499, 298-309.	2.6	9
44	SCALE-FREE LUBY TRANSFORM CODES. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2012, 22, 1250094.	1.7	8
45	Fuzzy-information-based robustness of interconnected networks against attacks and failures. Physica A: Statistical Mechanics and Its Applications, 2016, 458, 194-203.	2.6	8
46	Evaluation of Systemsâ€™ Irregularity and Complexity: Sample Entropy, Its Derivatives, and Their Applications across Scales and Disciplines. Entropy, 2018, 20, 794.	2.2	8
47	Superpixels With Content-Adaptive Criteria. IEEE Transactions on Image Processing, 2021, 30, 7702-7716.	9.8	8
48	Real-time Face Detection Algorithm Using Fractal Features in MPEG-4 Video Stream. Journal of Convergence Information Technology, 2012, 7, 54-62.	0.1	8
49	An Image Encryption Scheme Based on Chaotic Maps. , 2009, , .		7
50	A Chaotic Image Encryption Scheme Based on Magic Cube Transformation. , 2011, , .		7
51	Performance Analysis of LT Codes with Different Degree Distribution. , 2012, , .		7
52	Efficient protection using chaos for Context-Adaptive Binary Arithmetic Coding in H.264/Advanced Video Coding. Multimedia Tools and Applications, 2019, 78, 18967-18994.	3.9	7
53	A Chaos-based Joint Compression and Encryption Scheme Using Mutated Adaptive Huffman Tree. , 2012, , .		5
54	One-Way Hash Function Construction Based on Chaotic Coupled Map Network. , 2011, , .		4

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55	A New Immunization Strategy for Complex Network. , 2011, , .		4
56	Modified Function Projective Synchronization of Fractional Order Chaotic Systems with Different Dimensions. Discrete Dynamics in Nature and Society, 2013, 2013, 1-7.	0.9	4
57	Modified Projective Synchronization between Different Fractional-Order Systems Based on Open-Plus-Closed-Loop Control and Its Application in Image Encryption. Mathematical Problems in Engineering, 2014, 2014, 1-10.	1.1	4
58	Risk Analysis on Multi-Granular Flow Network for Software Integration Testing. IEEE Transactions on Circuits and Systems II: Express Briefs, 2018, 65, 1059-1063.	3.0	4
59	Locating multiple information sources in social networks based on the naming game. Physics Letters, Section A: General, Atomic and Solid State Physics, 2020, 384, 126908.	2.1	4
60	A SOCIAL NETWORK MODEL WITH PROXIMITY PRESTIGE PROPERTY. Journal of Applied Analysis and Computation, 2015, 5, 177-188.	0.5	4
61	Efficient fractal image compression based on pixels distribution and triangular segmentation. Journal of Computer Applications, 2010, 30, 337-340.	0.1	4
62	Runtime Permission Issues in Android Apps: Taxonomy, Practices, and Ways Forward. IEEE Transactions on Software Engineering, 2023, 49, 185-210.	5.6	4
63	An Efficient Encryption Algorithm Based on Image Reconstruction. , 2009, , .		3
64	Modified Projective Outer Synchronization between Two Fractional Order Complex Networks via Adaptive Control. Discrete Dynamics in Nature and Society, 2014, 2014, 1-8.	0.9	3
65	A Special Hybrid Projective Synchronization in Symmetric Chaotic System With Unknown Parameter. Journal of Computational and Nonlinear Dynamics, 2017, 12, .	1.2	3
66	SSCSMA-based random relay selection scheme for large-scale relay networks. Computer Communications, 2018, 127, 13-19.	5.1	3
67	A New Hyper-Chaos Generated from Chen's System via an External Periodic Perturbation. , 2009, , .		2
68	Fractal Color Image Coding Based on Isosceles Triangle Segmentation. , 2010, , .		2
69	Waste Heat Recovery and Reuse of Flue Gas in Copper Pyrometallurgy. Applied Mechanics and Materials, 0, 71-78, 2239-2242.	0.2	2
70	An effective collaborative filtering algorithm based on adjusted user-item rating matrix. , 2017, , .		2
71	A distributed energy-efficient cooperative routing algorithm based on optimal power allocation. , 2017, , .		2
72	The construction of Chinese microblog gender-specific thesauruses and user gender classification. Applied Network Science, 2018, 3, 47.	1.5	2

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73	Research Frontier in Chaos Theory and Complex Networks. Entropy, 2018, 20, 734.	2.2	2
74	Hero: On the Chaos When PATH Meets Modules. , 2021, , .		2
75	An ultrahigh-resolution image encryption algorithm using random super-pixel strategy. Multimedia Tools and Applications, 2021, 80, 33429-33454.	3.9	2
76	Design of Finite-Time Synchronization Controller and Its Application to Security Communication System. Applied Mathematics and Information Sciences, 2014, 8, 387-391.	0.5	2
77	Devising optimal integration test orders using costâ€"benefit analysis. Frontiers of Information Technology and Electronic Engineering, 2022, 23, 692-714.	2.6	2
78	Fractal Image Compression Based on Number of Hopping and Variance of Continuing Positive and Negative Pixels. , 2008, , .		1
79	An approach of chaotic generalized synchronization with the space transformation. , 2008, , .		1
80	Face Detection Based on Fractal and Complexion Model in the Complex Background. , 2010, , .		1
81	Cryptanalysis and Improvement on a Block Encryption Algorithm Based on Dynamic Sequences of Multiple Chaotic Systems. , 2010, , .		1
82	A New Chaotic Encryption Scheme Based on Enigma Machine. , 2011, , .		1
83	A novel cooperative routing algorithm based on â€œGravitationâ€•in wireless networks. , 2017, , .		1
84	Duplicated zigzag decodable fountain codes with the unequal error protection property. Computer Communications, 2022, 185, 66-78.	5.1	1
85	Analysis of the Chaotic Phenomena in Securities Business of China. Lecture Notes in Computer Science, 2005, , 1044-1047.	1.3	0
86	Generalized synchronization of multi-dimension hyperchaotic systems. , 2008, , .		0
87	Research and Analysis of Securities Market based on Multi-Fractal Generator. , 2008, , .		0
88	Research and Implementation of Embedded Intelligent Network Self-Healing Equipment Based on E1 Link. , 2009, , .		0
89	Design of fuzzy immune control law for synchronization of discrete time-delay chaotic system. , 2010, , .		0
90	A new measure to identify the hub in urban traffic networks. , 2011, , .		0

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91	An Enhanced PMA-DCSK Scheme and Performance Evaluation. , 2011, , .		0
92	The Generation of Hyperchaotic System and its Circuit Implementation. , 2012, , .		0
93	The Bidirectional Coupled Synchronization of Chaotic System Using Finite-time Control. , 2012, , .		0
94	A Multiaddress Co-Chaos Shift Keying Communication Scheme and Performance Analysis. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2014, 24, 1450050.	1.7	0
95	Chaos-Fractals Theories and Applications. Mathematical Problems in Engineering, 2014, 2014, 1-1.	1.1	0
96	Collaborative Contextual Anomaly Detection for Industrial Equipment Groups. , 2016, , .		0
97	Analysis of the Dynamic Influence of Social Network Nodes. Scientific Programming, 2017, 2017, 1-6.	0.7	0
98	Relative health index of wind turbines based on kernel density estimation. , 2017, , .		0
99	A Naming Game-Based Method for the Location of Information Source in Social Networks. Complexity, 2020, 2020, 1-8.	1.6	0
100	A Method of Chaotic Generalized Synchronization with the Stability of Error System. Dianzi Yu Xinxi Xuebao/Journal of Electronics and Information Technology, 2011, 30, 2987-2990.	0.1	0
101	Design of H_{∞} Synchronization Controller for Chaos System and Its Application to Security Communication System. Advanced Science Letters, 2012, 6, 364-368.	0.2	0
102	Sampled-data synchronization control of chaotic systems based on min-max approach. Wuli Xuebao/Acta Physica Sinica, 2013, 62, 170510.	0.5	0