

Xingcheng Liu

List of Publications by Year in descending order

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83
papers

700
citations

686830

13
h-index

610482

24
g-index

84
all docs

84
docs citations

84
times ranked

595
citing authors

#	ARTICLE	IF	CITATIONS
1	Threat-Event Detection for Distributed Networks Based on Spatiotemporal Markov Random Field. IEEE Transactions on Dependable and Secure Computing, 2022, 19, 1735-1752.	3.7	1
2	Stacked Autoencoders-Based Localization Without Ranging Over Internet of Things. IEEE Internet of Things Journal, 2022, 9, 7826-7841.	5.5	3
3	LDPC decoding with locally informed dynamic scheduling based on the law of large numbers. IET Communications, 2022, 16, 634-648.	1.5	1
4	Recovery schemes of Hop Count Matrix via topology inference and applications in range-free localization. Expert Systems With Applications, 2022, 200, 116906.	4.4	5
5	Network Traffic Content Identification Based on Time-Scale Signal Modeling. IEEE Transactions on Dependable and Secure Computing, 2022, , 1-19.	3.7	1
6	Study on the Basic Probability Assignment Based on Grey Relational Analysis and Gaussian Membership. IEEE Access, 2021, 9, 26556-26567.	2.6	3
7	Range-free localization using Reliable Anchor Pair Selection and Quantum-behaved Salp Swarm Algorithm for anisotropic Wireless Sensor Networks. Ad Hoc Networks, 2021, 113, 102406.	3.4	20
8	An improved path splitting strategy on successive cancellation list decoder for polar codes. IET Communications, 2021, 15, 1198-1209.	1.5	2
9	An Improved Successive Cancellation List Flip Decoder for Polar Codes Based on Key Sets. , 2021, , .		1
10	An Attack-Resistant Weighted Least Squares Localization Algorithm Based on RSSI. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2021, , 476-494.	0.2	0
11	Detection and Localization Algorithm Based on Sparse Reconstruction. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2021, , 866-879.	0.2	0
12	A Novel Distance Estimation Model and Its Use to Node Localization. Communications in Computer and Information Science, 2021, , 17-29.	0.4	0
13	Hybrid Decoding of CRC-Polar Codes. , 2021, , .		2
14	A Novel Range-Free Localization Scheme Based on Anchor Pairs Condition Decision in Wireless Sensor Networks. IEEE Transactions on Communications, 2020, 68, 7882-7895.	4.9	19
15	Recovery of Hop Count Matrices for the Sensing Nodes in Internet of Things. IEEE Internet of Things Journal, 2020, 7, 5128-5139.	5.5	3
16	Serially concatenated scheme of polar codes and the improved belief propagation decoding algorithm. IET Communications, 2020, 14, 2309-2318.	1.5	3
17	Energy Efficient Clustering Protocol Based on Binary SALP Swarm Algorithm for Heterogeneous Wireless Sensor Networks. , 2020, , .		2
18	An Improved Segmented Flipped Successive Cancellation List Decoder for Polar Codes. , 2020, , .		0

#	ARTICLE	IF	CITATIONS
19	A Low Latency Decoding Algorithm for Grouping Variable Nodes on TLC NAND Flash Devices. , 2019, , .		0
20	Hierarchy Strengthened Grey Wolf Optimizer for Numerical Optimization and Feature Selection. IEEE Access, 2019, 7, 78012-78028.	2.6	54
21	Efficient and Robust Distributed Digital Codec Framework for Jointly Sparse Correlated Signals. IEEE Access, 2019, 7, 77374-77386.	2.6	2
22	Variable-Node-Based Belief-Propagation Decoding With Message Pre-Processing for NAND Flash Memory. IEEE Access, 2019, 7, 58638-58653.	2.6	1
23	Improved Decoding Algorithms of LDPC Codes Based on Reliability Metrics of Variable Nodes. IEEE Access, 2019, 7, 35769-35778.	2.6	9
24	A Distributed Digital Codec for Jointly Sparse Correlated Signals. , 2019, , .		0
25	Anchor-Pairs Conditional Decision-Based Node Localization for Anisotropic Wireless Sensor Networks. , 2019, , .		7
26	A New Method to Determine Basic Probability Assignment Based on Interval Number. , 2019, , .		1
27	Range-free Localization Based on Adaptive Anchor Selection for Wireless Sensor Networks. , 2019, , .		1
28	High-Throughput Dynamic Scheduling for Belief-Propagation Decoding of LDPC Codes. , 2019, , .		0
29	Multi-strategy ensemble grey wolf optimizer and its application to feature selection. Applied Soft Computing Journal, 2019, 76, 16-30.	4.1	156
30	A Range-Based Secure Localization Algorithm for Wireless Sensor Networks. IEEE Sensors Journal, 2019, 19, 785-796.	2.4	43
31	Design of Binary LDPC Codes With Parallel Vector Message Passing. IEEE Transactions on Communications, 2018, 66, 1363-1375.	4.9	9
32	An Improved Variable-Node-Based BP Decoding Algorithm for NAND Flash Memory. , 2018, , .		2
33	Redundant Residue Number System Coded Diffusive Molecular Communications. , 2018, , .		0
34	Dynamic Scheduling Decoding of LDPC Codes Based on Tabu Search. IEEE Transactions on Communications, 2017, 65, 4612-4621.	4.9	13
35	An Optimization Scheme of Enhanced Adaptive Dynamic Energy Consumption Based on Joint Network-Channel Coding in WSNs. IEEE Sensors Journal, 2017, 17, 6119-6128.	2.4	13
36	Simulation study on cooperative localization. , 2017, , .		0

#	ARTICLE	IF	CITATIONS
37	A Practical Joint Network-Compressed Coding Scheme for Energy-Efficient Data Gathering in Cooperative Wireless Sensor Networks. , 2017, , .		1
38	Spectral-efficiency comparison of different multiple-access schemes under a generalized framework. , 2017, , .		3
39	Spectral-efficiency of multicarrier sparse-mapping non-orthogonal multiple-access systems: Downlink. , 2017, , .		0
40	High security chaotic multiple access scheme for visible light communication systems with advanced encryption standard interleaving. Optical Engineering, 2016, 55, 066121.	0.5	9
41	High-security colour shift keying modulation scheme with chaos-based constellation rotation for VLC system. , 2016, , .		2
42	Informed Decoding Algorithms of LDPC Codes Based on Dynamic Selection Strategy. IEEE Transactions on Communications, 2016, 64, 1357-1366.	4.9	19
43	Design and Implementation of Smart-Home Monitoring System with the Internet of Things Technology. Lecture Notes in Electrical Engineering, 2016, , 473-484.	0.3	8
44	An Optimization Scheme of Adaptive Dynamic Energy Consumption Based on Joint Network-Channel Coding in Wireless Sensor Networks. IEEE Sensors Journal, 2015, 15, 5158-5168.	2.4	10
45	RSH: A Link-Addition Strategy for Capacity Enhancement in Scale-Free Networks. IEEE Communications Letters, 2015, 19, 2110-2113.	2.5	16
46	Informed shuffled belief-propagation decoding for low-density parity-check codes. IET Communications, 2015, 9, 2259-2266.	1.5	0
47	Variable-Node-Based Dynamic Scheduling Strategy for Belief-Propagation Decoding of LDPC Codes. IEEE Communications Letters, 2015, 19, 147-150.	2.5	36
48	Construction of QC LDPC Cycle Codes Over GF(\mathbb{F}_q) IEEE Transactions on Magnetics, 2015, 51, 1-5.	1.2	2
49	Decoding of non-binary low-density parity-check codes based on the genetic algorithm and applications over mobile fading channels. IET Communications, 2015, 9, 1941-1948.	1.5	0
50	An improved artificial bee colony algorithm for clustering. , 2014, , .		3
51	Dynamic decoding algorithms of LDPC codes based on simulated annealing. , 2014, , .		2
52	Improved construction of LDPC convolutional codes with semi-random parity-check matrices. Science China Information Sciences, 2014, 57, 1-10.	2.7	3
53	Reliable Cooperative Communications Based on Random Network Coding in Multi-Hop Relay WSNs. IEEE Sensors Journal, 2014, 14, 2514-2523.	2.4	30
54	Query-Driven Tracing for a Multiuser Scenario in Wireless Sensor Networks. IEEE Sensors Journal, 2013, 13, 3016-3024.	2.4	2

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55	Improved Decoding Algorithm of Serial Belief Propagation With a Stop Updating Criterion for LDPC Codes and Applications in Patterned Media Storage. IEEE Transactions on Magnetics, 2013, 49, 829-836.	1.2	9
56	Construction of Binary LDPC Convolutional Codes Based on Finite Fields. IEEE Communications Letters, 2012, 16, 897-900.	2.5	7
57	Dynamic selection on the number of antennas for cooperative MISO in WSNs. , 2012, , .		1
58	Query Processing in Multi-User Scenario for Wireless Sensor Networks. IEEE Sensors Journal, 2011, 11, 2533-2541.	2.4	7
59	Design of nonbinary LDPC cycle codes based on cycle entropy. , 2011, , .		2
60	Effective Informed Dynamic Scheduling for Belief Propagation Decoding of LDPC Codes. IEEE Transactions on Communications, 2011, 59, 2683-2691.	4.9	43
61	Adaptive SNR estimation algorithms for decoding block turbo codes. Kybernetes, 2010, 39, 1298-1304.	1.2	2
62	Notice of Retraction: Pansystems Study on Computation Thought and Method. , 2010, , .		0
63	A Unified Early Stopping Criterion for Binary and Nonbinary LDPC Codes Based on Check-Sum Variation Patterns. IEEE Communications Letters, 2010, 14, 1053-1055.	2.5	19
64	CRAT: A novel routing algorithm for wireless sensor networks based on cooperative MIMO. , 2010, , .		1
65	Study on the MAP-based decoding algorithm of turbo codes over the asymmetric channel. , 2009, , .		0
66	Adaptive SNR estimation based decoding algorithm for block turbo codes. , 2009, , .		2
67	Error Correction Coding With LDPC Codes for Patterned Media Storage. IEEE Transactions on Magnetics, 2009, 45, 3745-3748.	1.2	8
68	Construction of Quasi-Cyclic LDPC Codes and the Performance on the PR4-Equalized MRC Channel. IEEE Transactions on Magnetics, 2009, 45, 3699-3702.	1.2	17
69	Study on the GA-Based Decoding Algorithm for Convolutional Turbo Codes. Lecture Notes in Computer Science, 2009, , 530-536.	1.0	0
70	An improved algorithm for constructing QC-LDPC codes based on the PEG algorithm. , 2009, , .		4
71	An efficient dynamic schedule for layered belief-propagation decoding of LDPC codes. IEEE Communications Letters, 2009, 13, 950-952.	2.5	25
72	Pansystems decision making on tables. Kybernetes, 2009, 38, 229-238.	1.2	0

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73	Modified BP Decoding Algorithms Combined with GA for Low-Density Parity Check Codes. , 2008, , .		5
74	Study on a cluster-chain routing protocol in wireless sensor networks. , 2008, , .		14
75	Fast point operation architecture for Elliptic Curve Cryptography. , 2008, , .		3
76	An energy-efficient single-hop wireless sensor network using Repeat-Accumulate codes. , 2008, , .		4
77	Improved digital image transmission with turbo product codes. , 2008, , .		0
78	CEERP: Cost-based Energy-Efficient Routing Protocol in wireless sensor networks. , 2008, , .		1
79	Efficient architecture for the Tate pairing in characteristic three. , 2008, , .		0
80	Efficient radius and list updating units design for list sphere decoders. , 2008, , .		0
81	A Novel Cluster-Chain Channel Adaptive Routing Protocol in Wireless Sensor Networks. , 2008, , .		0
82	An Efficient Adaptive Decoding for Block Turbo Codes. , 2006, , .		0
83	Study on Stark Effect in Optically Pumped Far-Infrared Laser. Journal of Infrared, Millimeter and Terahertz Waves, 2000, 21, 3-9.	0.6	2