

Hong Shen

List of Publications by Year in descending order

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178
papers

1,535
citations

567144

15
h-index

477173

29
g-index

182
all docs

182
docs citations

182
times ranked

1244
citing authors

#	ARTICLE	IF	CITATIONS
1	Balancing Energy Consumption to Maximize Network Lifetime in Data-Gathering Sensor Networks. IEEE Transactions on Parallel and Distributed Systems, 2009, 20, 1526-1539.	4.0	151
2	Energy-Efficient Beaconless Geographic Routing in Wireless Sensor Networks. IEEE Transactions on Parallel and Distributed Systems, 2010, 21, 881-896.	4.0	133
3	Secure Data Aggregation in Wireless Sensor Networks: A Survey. , 2006, , .		80
4	Community-based influence maximization for viral marketing. Applied Intelligence, 2019, 49, 2137-2150.	3.3	74
5	Blocking behaviors of crosstalk-free optical banyan networks on vertical stacking. IEEE/ACM Transactions on Networking, 2003, 11, 982-993.	2.6	43
6	From single watermark to dual watermark: A new approach for image watermarking. Computers and Electrical Engineering, 2012, 38, 1310-1324.	3.0	37
7	Neural variational matrix factorization for collaborative filtering in recommendation systems. Applied Intelligence, 2019, 49, 3558-3569.	3.3	35
8	Minimizing the maximum sensor movement for barrier coverage in the plane. , 2015, , .		33
9	Routing and wavelength assignment for hypercube in array-based WDM optical networks. Journal of Parallel and Distributed Computing, 2010, 70, 59-68.	2.7	30
10	Optimal Energy Balanced Data Gathering in Wireless Sensor Networks. , 2007, , .		28
11	Efficient Approximation Algorithms for the Bounded Flexible Scheduling Problem in Clouds. IEEE Transactions on Parallel and Distributed Systems, 2017, 28, 3511-3520.	4.0	28
12	ISLF: Interest Shift and Latent Factors Combination Model for Session-based Recommendation. , 2019, , .		28
13	Anonymizing Graphs Against Weight-Based Attacks. , 2010, , .		25
14	A counterexample for the open problem on the minimal delays of orthogonal designs with maximal rates. IEEE Transactions on Information Theory, 2005, 51, 355-359.	1.5	24
15	Privacy-Preserving Tuple Matching in Distributed Databases. IEEE Transactions on Knowledge and Data Engineering, 2009, 21, 1767-1782.	4.0	24
16	Online training of SVMs for real-time intrusion detection. , 0, , .		21
17	Community-based influence maximization in attributed networks. Applied Intelligence, 2020, 50, 354-364.	3.3	21
18	Maximum Target Coverage Problem in Mobile Wireless Sensor Networks. Sensors, 2021, 21, 184.	2.1	20

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19	Semantic-Aware Dummy Selection for Location Privacy Preservation. , 2016, , .		19
20	A Relation Between the Characteristic Generators of a Linear Code and its Dual. IEEE Transactions on Information Theory, 2005, 51, 1199-1202.	1.5	18
21	Efficient Approximation Algorithms for Multi-Antennae Largest Weight Data Retrieval. IEEE Transactions on Mobile Computing, 2017, 16, 3320-3333.	3.9	18
22	Analysis on a mobile agent-based algorithm for network routing and management. IEEE Transactions on Parallel and Distributed Systems, 2003, 14, 193-202.	4.0	16
23	Edge-independent spanning trees in augmented cubes. Theoretical Computer Science, 2017, 670, 23-32.	0.5	16
24	A grid-based reliable multi-hop routing protocol for energy-efficient wireless sensor networks. International Journal of Distributed Sensor Networks, 2018, 14, 155014771876596.	1.3	16
25	Energy-Aware Task Scheduling on Heterogeneous Computing Systems With Time Constraint. IEEE Access, 2020, 8, 23936-23950.	2.6	16
26	Online delay-guaranteed workload scheduling to minimize power cost in cloud data centers using renewable energy. Journal of Parallel and Distributed Computing, 2022, 159, 51-64.	2.7	16
27	Simulated-Annealing Load Balancing for Resource Allocation in Cloud Environments. , 2013, , .		15
28	Improved network community detection using meta-heuristic based label propagation. Applied Intelligence, 2019, 49, 1451-1466.	3.3	15
29	Wavelength Assignment for Realizing Parallel FFT on Regular Optical Networks. Journal of Supercomputing, 2006, 36, 3-16.	2.4	14
30	EEGR: Energy-Efficient Geographic Routing in Wireless Sensor Networks. Parallel Processing (ICPP), Proceedings of the International Symposium, 2007, , .	0.0	14
31	Reliability-aware task scheduling for energy efficiency on heterogeneous multiprocessor systems. Journal of Supercomputing, 2021, 77, 11643-11681.	2.4	13
32	Mining Informative Rule Set for Prediction. Journal of Intelligent Information Systems, 2004, 22, 155-174.	2.8	12
33	On Identity Disclosure Control for Hypergraph-Based Data Publishing. IEEE Transactions on Information Forensics and Security, 2013, 8, 1384-1396.	4.5	12
34	A Privacy-Preserving Data Publishing Method for Multiple Numerical Sensitive Attributes via Clustering and Multi-sensitive Bucketization. , 2014, , .		12
35	Combining Re-Sampling with Twin Support Vector Machine for Imbalanced Data Classification. , 2016, , .		12
36	Search result diversification on attributed networks via nonnegative matrix factorization. Information Processing and Management, 2018, 54, 1277-1291.	5.4	12

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37	A Survey of Mobile Agent-Based Fault-Tolerant Technology. , 2005, , .		11
38	An Effective Cache Replacement Algorithm in Transcoding-Enabled Proxies. Journal of Supercomputing, 2006, 35, 165-184.	2.4	11
39	Routing and wavelength assignment for hypercube communications embedded on optical chordal ring networks of degrees 3 and 4. Computer Communications, 2011, 34, 875-882.	3.1	11
40	Weighted Ensemble Classification of Multi-label Data Streams. Lecture Notes in Computer Science, 2017, , 551-562.	1.0	11
41	Sublogarithmic deterministic selection on arrays with a reconfigurable optical bus. IEEE Transactions on Computers, 2002, 51, 702-707.	2.4	10
42	Toward improved wavelet-based watermarking using the pixel-wise masking model. , 2005, , .		10
43	Coordinated En-Route Web Caching in Multiserver Networks. IEEE Transactions on Computers, 2009, 58, 605-619.	2.4	10
44	A New Architecture for Nonblocking Optical Switching Networks. Photonic Network Communications, 2001, 3, 393-400.	1.4	9
45	Blocking probability of vertically stacked optical Banyan networks under random routing. , 0, , .		9
46	Achieving Probabilistic Anonymity in a Linear and Hybrid Randomization Model. IEEE Transactions on Information Forensics and Security, 2016, 11, 2187-2202.	4.5	9
47	An efficient method for privacy-preserving trajectory data publishing based on data partitioning. Journal of Supercomputing, 2020, 76, 5276-5300.	2.4	9
48	Imbalanced data classification based on hybrid resampling and twin support vector machine. Computer Science and Information Systems, 2017, 14, 579-595.	0.7	9
49	Sorting on single-channel wireless sensor networks. , 0, , .		8
50	Toward Blind Logo Watermarking in JPEG-Compressed Images. , 2005, , .		8
51	Cache Replacement for Transcoding Proxy Caching. , 0, , .		8
52	Wavelength Assignment for Directional Hypercube Communications on a Class of WDM Optical Networks. Parallel Processing (ICPP), Proceedings of the International Symposium, 2007, , .	0.0	7
53	Dissimilarity-constrained node attribute coverage diversification for novelty-enhanced top-k search in large attributed networks. Knowledge-Based Systems, 2018, 150, 85-94.	4.0	7
54	Imbalanced Data Classification Using Improved Clustering Algorithm and Under-Sampling Method. , 2019, , .		7

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55	Permutation in rearrangeable nonblocking optical MINs with zero first-order switching-element-crosstalk. , 0, , .		6
56	Robust wavelet-based blind image watermarking against geometrical attacks. , 0, , .		6
57	Hamming Distance and Hop Count Based Classification for Multicast Network Topology Inference. , 0, , .		6
58	An improved algorithm for multicast topology discovery from end-to-end measurements. International Journal of Communication Systems, 2006, 19, 935-953.	1.6	6
59	Efficient 2-Approximation Algorithms for Computing 2-Connected Steiner Minimal Networks. IEEE Transactions on Computers, 2012, 61, 954-968.	2.4	6
60	Improved approximation algorithms for computing k disjoint paths subject to two constraints. Journal of Combinatorial Optimization, 2015, 29, 153-164.	0.8	6
61	BVPSMS: A Batch Verification Protocol for End-to-End Secure SMS for Mobile Users. IEEE Transactions on Dependable and Secure Computing, 2018, , 1-1.	3.7	6
62	Mobile agents based topology discovery algorithms and modelling. , 2004, , .		5
63	Theoretical Analysis on A Traffic-Based Routing Algorithm of Mobile Agents. , 0, , .		5
64	An $O(nh)$ Algorithm for Dual-Server Coordinated En-Route Caching in Tree Networks. , 2006, , .		5
65	Embedding Meshes and Tori on Double-Loop Networks of the Same Size. IEEE Transactions on Computers, 2011, 60, 1157-1168.	2.4	5
66	Diffusion wavelet-based analysis on traffic matrices by different diffusion operators. Computers and Electrical Engineering, 2014, 40, 1874-1882.	3.0	5
67	Improved Data Streams Classification with Fast Unsupervised Feature Selection. , 2016, , .		5
68	Fast top-k similarity search in large dynamic attributed networks. Information Processing and Management, 2019, 56, 102074.	5.4	5
69	Minimizing maximum movement of sensors for line barrier coverage in the plane. Computer Networks, 2019, 163, 106841.	3.2	5
70	Cost-minimizing online algorithm for internet green data centers on multi-source energy. Concurrency Computation Practice and Experience, 2019, 31, e5044.	1.4	5
71	Minimizing the operation cost of distributed green data centers with energy storage under carbon capping. Journal of Computer and System Sciences, 2021, 118, 28-52.	0.9	5
72	Privacy-Preserving Trajectory Data Publishing by Dynamic Anonymization with Bounded Distortion. ISPRS International Journal of Geo-Information, 2021, 10, 78.	1.4	5

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73	Task scheduling on heterogeneous multiprocessor systems through coherent data allocation. Concurrency Computation Practice and Experience, 2021, 33, e6183.	1.4	5
74	<scp>CSS</scp>: Handling imbalanced data by improved clustering with stratified sampling. Concurrency Computation Practice and Experience, 2022, 34, e6071.	1.4	5
75	Unsupervised anomaly detection for network traffic using artificial immune network. Neural Computing and Applications, 2022, 34, 13007-13027.	3.2	5
76	Structuralâ€Temporal embedding of large-scale dynamic networks with parallel implementation. Computers and Electrical Engineering, 2022, 100, 107835.	3.0	5
77	Permutation-based range-join algorithms on N-dimensional meshes. IEEE Transactions on Parallel and Distributed Systems, 2002, 13, 413-431.	4.0	4
78	Analysis on Extended Ant Routing Algorithms for Network Routing and Management. Journal of Supercomputing, 2003, 24, 327-340.	2.4	4
79	Analysis on binary loss tree classification with hop count for multicast topology discovery. , 0, , .		4
80	Analysis and Design of an Agent Searching Algorithm for e-Marketplaces. Cluster Computing, 2004, 7, 85-90.	3.5	4
81	An Efficient Protocol for the Problem of Secure Two-party Vector Dominance. , 2005, , .		4
82	An Improved Approximation Algorithm for Computing Disjoint QoS Paths. , 0, , .		4
83	Embedding Hypercube Communications on Optical Chordal Ring Networks. Local Computer Networks (LCN), Proceedings of the IEEE Conference on, 2006, , .	0.0	4
84	Distribution of mobile agents in vulnerable networks. Concurrency Computation Practice and Experience, 2007, 19, 1047-1064.	1.4	4
85	QoS-oriented content delivery in e-learning systems. , 2009, , .		4
86	Energy-efficient cooperative MIMO routing in wireless sensor networks. , 2012, , .		4
87	Green-Aware Online Resource Allocation for Geo-Distributed Cloud Data Centers on Multi-Source Energy. , 2016, , .		4
88	Delay-Tolerant On-Demand Mobile Charging Scheduling Scheme for Wireless Rechargeable Sensor Networks. , 2018, , .		4
89	An adaptive onâ€demand charging scheme for rechargeable wireless sensor networks. Concurrency Computation Practice and Experience, 2020, , e6136.	1.4	4
90	Efficient Algorithms for Max-Weighted Point Sweep Coverage on Lines. Sensors, 2021, 21, 1457.	2.1	4

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91	Prediction of job characteristics for intelligent resource allocation in HPC systems: a survey and future directions. <i>Frontiers of Computer Science</i> , 2022, 16, .	1.6	4
92	Optimal Parallel Algorithms For Multiselection On Mesh-Connected Computers. <i>International Journal of Computer Mathematics</i> , 2003, 80, 165-179.	1.0	3
93	Fault tolerance analysis of optical switching systems built on the vertical stacking of Banyan network. , 0, , .		3
94	A Brief Comparative Study on Analytical Models of Computer System Dependability and Security. , 2005, , .		3
95	A beam-through algorithm to compute multiple sequence alignment. , 2005, , .		3
96	Distributed Tuning Attempt Probability for Data Gathering in Random Access Wireless Sensor Networks. , 2006, , .		3
97	On Identity Disclosure in Weighted Graphs. , 2010, , .		3
98	Scheduling Parallel Data Retrievals for Non-consecutive Broadcast in MIMO Wireless Networks. , 2012, , .		3
99	Using Category and Keyword for Personalized Recommendation: A Scalable Collaborative Filtering Algorithm. , 2014, , .		3
100	Efficient Algorithms for VM Placement in Cloud Data Centers. , 2017, , .		3
101	Efficient Data Gathering in Wireless Sensor Networks with Fixed-Group Method. , 2017, , .		3
102	Scalable Aspects Learning for Intent-Aware Diversified Search on Social Networks. <i>IEEE Access</i> , 2018, 6, 37124-37137.	2.6	3
103	Neural Variational Matrix Factorization with Side Information for Collaborative Filtering. <i>Lecture Notes in Computer Science</i> , 2019, , 414-425.	1.0	3
104	Vertically stacked Benes networks for crosstalk-free permutation. , 0, , .		2
105	Solution to Multi-objective Fuzzy Optimization Dynamic Programming with Uncertain Information. , 2005, , .		2
106	ONLINE SCHEDULING OF UNIT JOBS WITH BOUNDED IMPORTANCE RATIO. <i>International Journal of Foundations of Computer Science</i> , 2005, 16, 581-598.	0.8	2
107	A Scheme for Testing Privacy State in Pervasive Sensor Networks. , 0, , .		2
108	Privacy-Preserving Internet Traffic Publication. , 2016, , .		2

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109	A Secure Anonymous Authentication Scheme for Electronic Medical Records Systems. , 2016, , .		2
110	Tree-based data retrieval algorithm for multi-item request with deadline in wireless networks. Peer-to-Peer Networking and Applications, 2016, 9, 92-107.	2.6	2
111	Diffusion Wavelet-based Privacy Preserving in social networks. Computers and Electrical Engineering, 2018, 67, 415-424.	3.0	2
112	Virtual Sample Generation Approach for Imbalanced Classification. , 2018, , .		2
113	Blockchain Consensus Algorithm Design Based on Consistent Hash Algorithm. , 2019, , .		2
114	An accuracy-assured privacy-preserving recommender system for internet commerce. Computer Science and Information Systems, 2015, 12, 1307-1326.	0.7	2
115	Fairness-aware scheduling of dynamic cross-job coflows in shared datacenters based on meta learning. Computers and Electrical Engineering, 2022, 100, 107815.	3.0	2
116	Optimal parallel weighted multiselection. , 0, , .		1
117	Modeling the blocking probabilities of crosstalk-free optical MINs with vertical stacking. , 0, , .		1
118	A new scheme to realize crosstalk-free permutations in optical MINs with vertical stacking. , 0, , .		1
119	Some analysis on mobile-agent based network routing. , 2004, , .		1
120	Performance modelling of a fault-tolerant agent-driven system. , 0, , .		1
121	Token bucket based statistical regulator for s-bind modeled on-line traffic. , 0, , .		1
122	RWA of Hypercube Communications Embedded on A Family of Optical Double-Loop Networks. Networks, 2008 ICON 2008 16th IEEE International Conference on, 2007, , .	0.0	1
123	A novel P-shape tessellation approach on double-loop networks. , 2009, , .		1
124	Equi-Width Data Swapping for Private Data Publication. , 2009, , .		1
125	Anonymizing Hypergraphs with Community Preservation. , 2011, , .		1
126	A DISTRIBUTED APPROXIMATION ALGORITHM FOR FAULT-TOLERANT METRIC FACILITY LOCATION. International Journal of Foundations of Computer Science, 2011, 22, 1019-1034.	0.8	1

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127	Achieving Probabilistic Anonymity Against One-to-Multiple Linkage Attacks. , 2013, , .		1
128	Efficient data retrieval algorithm for multi-item request in wireless broadcast environments. , 2014, , .		1
129	Practical Anonymization for Protecting Privacy in Combinatorial Maps. , 2014, , .		1
130	Clustering Subtrajectories of Moving Objects Based on a Distance Metric with Multi-dimensional Weights. , 2014, , .		1
131	Minimizing the Maximum Sensor Movement towards Grid Points for Barrier Coverage. , 2015, , .		1
132	Efficient data retrieval algorithms for multiple requests in MIMO wireless networks. International Journal of Communication Systems, 2017, 30, e2917.	1.6	1
133	GLFR: A Generalized LFR Benchmark for Testing Community Detection Algorithms. , 2017, , .		1
134	An Improved (k,p,l)-Anonymity Method for Privacy Preserving Collaborative Filtering. , 2017, , .		1
135	Joint Mobile Data Collection and Energy Supply Scheme for Rechargeable Wireless Sensor Networks. , 2019, , .		1
136	A Temporal Caching-Aware Dummy Selection Location Algorithm. , 2019, , .		1
137	A Modified Community-Level Diffusion Extraction in Social Network. , 2019, , .		1
138	I/O Scheduling for Limited-Size Burst-Buffers Deployed High Performance Computing. , 2019, , .		1
139	An Improved Online Multidimensional Bin Packing Algorithm. , 2019, , .		1
140	A Grid-Based Joint Routing and Energy Replenish Scheme for Rechargeable Wireless Sensor Networks. , 2019, , .		1
141	Improved Ensemble Classification for Evolving Data Streams. IEEE Intelligent Systems, 2022, 37, 38-50.	4.0	1
142	Maintenance of Structural Hole Spanners in Dynamic Networks. , 2021, , .		1
143	An Efficient Method for p-Server Coordinated En-Route Web Caching. , 2007, , .		1
144	Advances in parallel and distributed computing and its applications. Concurrency Computation Practice and Experience, 2022, 34, e6667.	1.4	1

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145	Improving I/O performance for High Performance Computing with Application Forwarding Layer. , 2020, , .		1
146	Efficient weighted multiselection in parallel architectures. , 0, , .		0
147	An Improved GreedyDual Cache Document Replacement Algorithm. , 0, , .		0
148	Coordinated en-route transcoding caching for tree networks. , 0, , .		0
149	Mobile Agent-Based Execution Modelling. , 0, , .		0
150	Proxy placement in coordinated en-route transcoding caching for tree networks. , 2004, , .		0
151	Analysis of mobile agents fault-tolerant behavior. , 0, , .		0
152	Capture the drifting of normal behavior traces for adaptive intrusion detection using modified SVMs. , 0, , .		0
153	Trellis properties of group codes. , 0, , .		0
154	An Automatic and Robust Algorithm for Segmentation of Three-dimensional Medical Images. , 2005, , .		0
155	A New Solution to Non-structural System Group Decision-making Problems. , 2005, , .		0
156	GEN02-4: A Rearrangeable Nonblocking Multi-log ₂ N Multicast Switching Network. IEEE Global Telecommunications Conference (GLOBECOM), 2006, , .	0.0	0
157	An Execution Prototype of Mobile Agent-Based Peer-to-Peer Systems. , 2006, , .		0
158	A dynamic programming approach of finding an optimal broadcast schedule in minimizing total flow time. Journal of Combinatorial Optimization, 2006, 11, 177-187.	0.8	0
159	An efficient method for p-server coordinated en-route web caching. , 2007, , .		0
160	The generalization of some trellis properties of linear codes to group codes. Science in China Series F: Information Sciences, 2009, 52, 797-803.	1.1	0
161	Scalable Seed Expansion for Identifying Web Communities. , 2011, , .		0
162	Preventing Identity Disclosure in Hypergraphs. , 2011, , .		0

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163	A Polynomial Algorithm for the Vertex Disjoint Min-Min Problem in Planar Graphs. , 2011, , .		0
164	Fast Fault-Tolerant Resource Allocation. , 2011, , .		0
165	Approximate Algorithms for Survivable Network Design. , 2012, , .		0
166	Incremental Attribute Reduction in Incomplete Decision Systems. , 2012, , .		0
167	A Parallel Algorithm for 2D Square Packing. , 2013, , .		0
168	Foreword to Special Issue. Journal of Interconnection Networks, 2013, 14, 1302001.	0.6	0
169	A Distributed Multi-hub Translator Trust Model for Interdomain Routing in Large Networks. , 2014, , .		0
170	Using Symmetry Dicke State as Security Detection Particle in Quantum "Ping-Pong" Protocol. , 2014, , .		0
171	Advanced Modeling and Services Based Mathematics for Ubiquitous Computing. Mathematical Problems in Engineering, 2015, 2015, 1-3.	0.6	0
172	An Improved Collaborative Filtering Recommendation Algorithm against Shilling Attacks. , 2016, , .		0
173	Improved Online Algorithms for One-Dimensional BinPacking with Advice. , 2017, , .		0
174	NMFDIV: A Nonnegative Matrix Factorization Approach for Search Result Diversification on Attributed Networks. , 2017, , .		0
175	Memory Hierarchy Aware I/O Scheduling under Contention for Hybrid Storage Based HPC. , 2018, , .		0
176	Modeling Data Transmission in Mobile Ad-hoc Networks for Characterizing Black-Hole Attacks. , 2019, , .		0
177	Foreword to the Special Section on Parallel and Distributed Computing, Applications and Technologies. Concurrency Computation Practice and Experience, 2019, 31, e5409.	1.4	0
178	Improve the quality of charging services for rechargeable wireless sensor networks by deploying a mobile vehicle with multiple removable chargers. Wireless Networks, 0, , .	2.0	0