Jinjun Chen

List of Publications by Year
in descending order

129 papers	7,519 citations	50276 46 h-index	58581 82 g-index
133 all docs	133 docs citations	133 times ranked	4883 citing authors

#	Article	IF	Citations
1	Detection of Malicious Code Variants Based on Deep Learning. IEEE Transactions on Industrial Informatics, 2018, 14, 3187-3196.	11.3	452
2	Privacy preservation in blockchain based IoT systems: Integration issues, prospects, challenges, and future research directions. Future Generation Computer Systems, 2019, 97, 512-529.	7.5	370
3	Personalized Recommendation System Based on Collaborative Filtering for IoT Scenarios. IEEE Transactions on Services Computing, 2020, 13, 685-695.	4.6	346
4	Differential Privacy Techniques for Cyber Physical Systems: A Survey. IEEE Communications Surveys and Tutorials, 2020, 22, 746-789.	39.4	335
5	A novel oriented cuckoo search algorithm to improve DV-Hop performance for cyber–physical systems. Journal of Parallel and Distributed Computing, 2017, 103, 42-52.	4.1	250
6	An under–sampled software defect prediction method based on hybrid multi–objective cuckoo search. Concurrency Computation Practice and Experience, 2020, 32, e5478.	2.2	203
7	A Scalable Two-Phase Top-Down Specialization Approach for Data Anonymization Using MapReduce on Cloud. IEEE Transactions on Parallel and Distributed Systems, 2014, 25, 363-373.	5.6	185
8	MuR-DPA: Top-Down Levelled Multi-Replica Merkle Hash Tree Based Secure Public Auditing for Dynamic Big Data Storage on Cloud. IEEE Transactions on Computers, 2015, 64, 2609-2622.	3.4	183
9	Optimal LEACH protocol with modified bat algorithm for big data sensing systems in Internet of Things. Journal of Parallel and Distributed Computing, 2019, 132, 217-229.	4.1	177
10	A two-stage locality-sensitive hashing based approach for privacy-preserving mobile service recommendation in cross-platform edge environment. Future Generation Computer Systems, 2018, 88, 636-643.	7.5	175
11	A pigeon-inspired optimization algorithm for many-objective optimization problems. Science China Information Sciences, 2019, 62, 1.	4.3	170
12	A Hybrid BlockChain-Based Identity Authentication Scheme for Multi-WSN. IEEE Transactions on Services Computing, 2020, , 1-1.	4.6	166
13	Hybrid multi-objective cuckoo search with dynamical local search. Memetic Computing, 2018, 10, 199-208.	4.0	164
14	External integrity verification for outsourced big data in cloud and IoT: A big picture. Future Generation Computer Systems, 2015, 49, 58-67.	7.5	153
15	A Multicloud-Model-Based Many-Objective Intelligent Algorithm for Efficient Task Scheduling in Internet of Things. IEEE Internet of Things Journal, 2021, 8, 9645-9653.	8.7	148
16	A Gaussian error correction multi–objective positioning model with NSGA–II. Concurrency Computation Practice and Experience, 2020, 32, e5464.	2.2	147
17	Threats to Networking Cloud and Edge Datacenters in the Internet of Things. IEEE Cloud Computing, 2016, 3, 64-71.	3.9	144
18	Hybrid many-objective particle swarm optimization algorithm for green coal production problem. Information Sciences, 2020, 518, 256-271.	6.9	140

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19	A New Subspace Clustering Strategy for AI-Based Data Analysis in IoT System. IEEE Internet of Things Journal, 2021, 8, 12540-12549.	8.7	131
20	KASR: A Keyword-Aware Service Recommendation Method on MapReduce for Big Data Applications. IEEE Transactions on Parallel and Distributed Systems, 2014, 25, 3221-3231.	5.6	127
21	<italic>EnReal</italic>: An Energy-Aware Resource Allocation Method for Scientific Workflow Executions in Cloud Environment. IEEE Transactions on Cloud Computing, 2016, 4, 166-179.	4.4	125
22	High Performance Computing for Cyber Physical Social Systems by Using Evolutionary Multi-Objective Optimization Algorithm. IEEE Transactions on Emerging Topics in Computing, 2017, , 1-1.	4.6	123
23	Multi-Objective Three-Dimensional DV-Hop Localization Algorithm With NSGA-II. IEEE Sensors Journal, 2019, 19, 10003-10015.	4.7	114
24	Malicious Code Detection under 5G HetNets Based on a Multi-Objective RBM Model. IEEE Network, 2021, 35, 82-87.	6.9	105
25	HireSome-II: Towards Privacy-Aware Cross-Cloud Service Composition for Big Data Applications. IEEE Transactions on Parallel and Distributed Systems, 2015, 26, 455-466.	5.6	101
26	A Multi-Objective DV-Hop Localization Algorithm Based on NSGA-II in Internet of Things. Mathematics, 2019, 7, 184.	2.2	101
27	A Privacy Leakage Upper Bound Constraint-Based Approach for Cost-Effective Privacy Preserving of Intermediate Data Sets in Cloud. IEEE Transactions on Parallel and Distributed Systems, 2013, 24, 1192-1202.	5.6	100
28	A hybrid approach for scalable sub-tree anonymization over big data using MapReduce on cloud. Journal of Computer and System Sciences, 2014, 80, 1008-1020.	1.2	98
29	A security framework in G-Hadoop for big data computing across distributed Cloud data centres. Journal of Computer and System Sciences, 2014, 80, 994-1007.	1.2	96
30	A Novel Bat Algorithm with Multiple Strategies Coupling for Numerical Optimization. Mathematics, 2019, 7, 135.	2.2	90
31	Proximity-Aware Local-Recoding Anonymization with MapReduce for Scalable Big Data Privacy Preservation in Cloud. IEEE Transactions on Computers, 2015, 64, 2293-2307.	3.4	89
32	A hybrid recommendation system with many-objective evolutionary algorithm. Expert Systems With Applications, 2020, 159, 113648.	7.6	84
33	A many-objective optimization recommendation algorithm based on knowledge mining. Information Sciences, 2020, 537, 148-161.	6.9	81
34	A Sharding Scheme-Based Many-Objective Optimization Algorithm for Enhancing Security in Blockchain-Enabled Industrial Internet of Things. IEEE Transactions on Industrial Informatics, 2021, 17, 7650-7658.	11.3	80
35	Host-Based Intrusion Detection System with System Calls. ACM Computing Surveys, 2019, 51, 1-36.	23.0	76
36	A Highly Practical Approach toward Achieving Minimum Data Sets Storage Cost in the Cloud. IEEE Transactions on Parallel and Distributed Systems, 2013, 24, 1234-1244.	5.6	68

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37	An efficient quasi-identifier index based approach for privacy preservation over incremental data sets on cloud. Journal of Computer and System Sciences, 2013, 79, 542-555.	1.2	68
38	A spatiotemporal compression based approach for efficient big data processing on Cloud. Journal of Computer and System Sciences, 2014, 80, 1563-1583.	1.2	67
39	A Time Efficient Approach for Detecting Errors in Big Sensor Data on Cloud. IEEE Transactions on Parallel and Distributed Systems, 2015, 26, 329-339.	5.6	67
40	Weighted principal component analysis-based service selection method for multimedia services in cloud. Computing (Vienna/New York), 2016, 98, 195-214.	4.8	65
41	DEAL: Differentially Private Auction for Blockchain based Microgrids Energy Trading. IEEE Transactions on Services Computing, 2019, , 1-1.	4.6	63
42	DLSeF. Transactions on Embedded Computing Systems, 2017, 16, 1-24.	2.9	61
43	Differential privacy in blockchain technology: A futuristic approach. Journal of Parallel and Distributed Computing, 2020, 145, 50-74.	4.1	58
44	Public Auditing for Big Data Storage in Cloud Computing -- A Survey. , 2013, , .		57
45	A dynamic prime number based efficient security mechanism for big sensing data streams. Journal of Computer and System Sciences, 2017, 83, 22-42.	1.2	54
46	A Many-Objective Optimization Based Intelligent Intrusion Detection Algorithm for Enhancing Security of Vehicular Networks in 6G. IEEE Transactions on Vehicular Technology, 2021, 70, 5234-5243.	6.3	51
47	P2DCA: A Privacy-Preserving-Based Data Collection and Analysis Framework for IoMT Applications. IEEE Journal on Selected Areas in Communications, 2019, 37, 1222-1230.	14.0	49
48	Differential privacy for renewable energy resources based smart metering. Journal of Parallel and Distributed Computing, 2019, 131, 69-80.	4.1	46
49	Cloud service QoS prediction via exploiting collaborative filtering and location†based data smoothing. Concurrency Computation Practice and Experience, 2015, 27, 5826-5839.	2.2	43
50	Privacy Preserving High-Order Bi-Lanczos in Cloud†"Fog Computing for Industrial Applications. IEEE Transactions on Industrial Informatics, 2022, 18, 7009-7018.	11.3	43
51	Explainable recommendation based on knowledge graph and multi-objective optimization. Complex & Intelligent Systems, 2021, 7, 1241-1252.	6.5	38
52	Multivariate Multi-Order Markov Multi-Modal Prediction With Its Applications in Network Traffic Management. IEEE Transactions on Network and Service Management, 2019, 16, 828-841.	4.9	35
53	A Survey on Big Multimedia Data Processing and Management in Smart Cities. ACM Computing Surveys, 2020, 52, 1-29.	23.0	32
54	SEEN: A Selective Encryption Method to Ensure Confidentiality for Big Sensing Data Streams. IEEE Transactions on Big Data, 2019, 5, 379-392.	6.1	32

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55	An improved matrix factorization based model for many-objective optimization recommendation. Information Sciences, 2021, 579, 1-14.	6.9	32
56	A MapReduce Based Approach of Scalable Multidimensional Anonymization for Big Data Privacy Preservation on Cloud. , 2013, , .		31
57	Frame Interpolation for Cloud-Based Mobile Video Streaming. IEEE Transactions on Multimedia, 2016, 18, 831-839.	7.2	30
58	A Mobile Multimedia Data Collection Scheme for Secured Wireless Multimedia Sensor Networks. IEEE Transactions on Network Science and Engineering, 2020, 7, 274-284.	6.4	26
59	Cybermatics: A Holistic Field for Systematic Study of Cyber-Enabled New Worlds. IEEE Access, 2015, 3, 2270-2280.	4.2	25
60	Weight convergence analysis of DV-hop localization algorithm with GA. Soft Computing, 2020, 24, 18249-18258.	3.6	25
61	A Secure Big Data Stream Analytics Framework for Disaster Management on the Cloud. , 2016, , .		24
62	Enabling Privacy-Preserving Shortest Distance Queries on Encrypted Graph Data. IEEE Transactions on Dependable and Secure Computing, 2021, 18, 192-204.	5.4	24
63	A Many-Objective Multistage Optimization-Based Fuzzy Decision-Making Model for Coal Production Prediction. IEEE Transactions on Fuzzy Systems, 2021, 29, 3665-3675.	9.8	24
64	CCBKE â€" Session key negotiation for fast and secure scheduling of scientific applications in cloud computing. Future Generation Computer Systems, 2013, 29, 1300-1308.	7.5	23
65	Efficient searchable symmetric encryption for storing multiple source dynamic social data on cloud. Journal of Network and Computer Applications, 2017, 86, 3-14.	9.1	23
66	Selecting Top-k Composite Web Services Using Preference-Aware Dominance Relationship. , 2013, , .		21
67	Privacy Preservation over Big Data in Cloud Systems. , 2014, , 239-257.		21
68	Service Mining for Trusted Service Composition in Cross-Cloud Environment. IEEE Systems Journal, 2017, 11, 283-294.	4.6	21
69	An Experimental Investigation Into the Hash Functions Used in Blockchains. IEEE Transactions on Engineering Management, 2020, 67, 1404-1424.	3.5	21
70	A clustering based coscheduling strategy for efficient scientific workflow execution in cloud computing. Concurrency Computation Practice and Experience, 2013, 25, 2523-2539.	2.2	20
71	Combining Top-Down and Bottom-Up: Scalable Sub-tree Anonymization over Big Data Using MapReduce on Cloud. , 2013, , .		20
72	A Distributed and Anonymous Data Collection Framework Based on Multilevel Edge Computing Architecture. IEEE Transactions on Industrial Informatics, 2020, 16, 6114-6123.	11.3	20

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73	SaCâ€FRAPP: a scalable and costâ€effective framework for privacy preservation over big data on cloud. Concurrency Computation Practice and Experience, 2013, 25, 2561-2576.	2.2	19
74	A Many-Objective Optimization Based Intelligent High Performance Data Processing Model for Cyber-Physical-Social Systems. IEEE Transactions on Network Science and Engineering, 2022, 9, 3825-3834.	6.4	19
75	Graph Encryption for Top-K Nearest Keyword Search Queries on Cloud. IEEE Transactions on Sustainable Computing, 2017, 2, 371-381.	3.1	18
76	A Web Services Classification Method Based on GCN. , 2019, , .		18
77	A Survey on Representation Learning Efforts in Cybersecurity Domain. ACM Computing Surveys, 2020, 52, 1-28.	23.0	18
78	Unified integration of many-objective optimization algorithm based on temporary offspring for software defects prediction. Swarm and Evolutionary Computation, 2021, 63, 100871.	8.1	18
79	DPBSV -- An Efficient and Secure Scheme for Big Sensing Data Stream. , 2015, , .		17
80	A Synchronized Shared Key Generation Method for Maintaining End-to-End Security of Big Data Streams. , 2017, , .		17
81	An Iterative Hierarchical Key Exchange Scheme for Secure Scheduling of Big Data Applications in Cloud Computing. , 2013, , .		16
82	A Holistic Approach for Distributed Dimensionality Reduction of Big Data. IEEE Transactions on Cloud Computing, 2018, 6, 506-518.	4.4	16
83	Hybrid many-objective cuckoo search algorithm with LÃ©vy and exponential distributions. Memetic Computing, 2020, 12, 251-265.	4.0	16
84	A traffic hotline discovery method over cloud of things using big taxi GPS data. Software - Practice and Experience, 2017, 47, 361-377.	3.6	15
85	A QoSâ€aware service discovery method for elastic cloud computing in an unstructured peerâ€toâ€peer network. Concurrency Computation Practice and Experience, 2013, 25, 1843-1860.	2.2	13
86	HKEâ€BC: hierarchical key exchange for secure scheduling and auditing of big data in cloud computing. Concurrency Computation Practice and Experience, 2016, 28, 646-660.	2.2	13
87	Optimizing Blockchain Based Smart Grid Auctions: A Green Revolution. IEEE Transactions on Green Communications and Networking, 2022, 6, 462-471.	5.5	13
88	Graph-Cut Based Coscheduling Strategy Towards Efficient Execution of Scientific Workflows in Collaborative Cloud Environments. , 2011, , .		12
89	A Time-Series Pattern Based Noise Generation Strategy for Privacy Protection in Cloud Computing. , 2012, , .		11
90	Privacy-Preserving Layer over MapReduce on Cloud. , 2012, , .		11

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91	A Tensor-Based Forensics Framework for Virtualized Network Functions in the Internet of Things: Utilizing Tensor Algebra in Facilitating More Efficient Network Forensic Investigations. IEEE Consumer Electronics Magazine, 2019, 8, 23-27.	2.3	11
92	Efficiently Predicting Trustworthiness of Mobile Services Based on Trust Propagation in Social Networks. Mobile Networks and Applications, 2015, 20, 840-852.	3.3	10
93	Efficient Algorithms for Social Network Coverage and Reach. , 2015, , .		10
94	A polynomialâ€time algorithm for simple undirected graph isomorphism. Concurrency Computation Practice and Experience, 2021, 33, 1-1.	2.2	10
95	An enhanced priority-based scheduling heuristic for DAG applications with temporal unpredictability in task execution and data transmission. Future Generation Computer Systems, 2019, 100, 428-439.	7.5	9
96	Efficient Searchable Symmetric Encryption for Storing Multiple Source Data on Cloud. , 2015, , .		8
97	A Scalable Multi-Data Sources Based Recursive Approximation Approach for Fast Error Recovery in Big Sensing Data on Cloud. IEEE Transactions on Knowledge and Data Engineering, 2020, 32, 841-854.	5.7	8
98	An Authenticated Key Exchange Scheme for Efficient Security-Aware Scheduling of Scientific Applications in Cloud Computing. , 2011, , .		7
99	Cloud-Assisted Key Distribution in Batch for Secure Real-time Mobile Services. IEEE Transactions on Services Computing, 2016, , 1-1.	4.6	7
100	A Privacy-Leakage-Tolerance Based Noise Enhancing Strategy for Privacy Protection in Cloud Computing. , 2013, , .		6
101	Introduction: Social Computing and Social Networks. Journal of Organizational Computing and Electronic Commerce, 2014, 24, 119-121.	1.8	6
102	A Deployment Optimization Scheme Over Multimedia Big Data for Large-Scale Media Streaming Application. ACM Transactions on Multimedia Computing, Communications and Applications, 2016, 12, 1-23.	4.3	6
103	Differential Privacy in Cognitive Radio Networks: A Comprehensive Survey. Cognitive Computation, 2022, 14, 475-510.	5.2	6
104	An Upper-Bound Control Approach for Cost-Effective Privacy Protection of Intermediate Dataset Storage in Cloud. , 2011, , .		5
105	Key Research Issues for Privacy Protection and Preservation in Cloud Computing. , 2012, , .		5
106	IoT and Big Data: An Architecture with Data Flow and Security Issues. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2018, , 243-252.	0.3	5
107	A Coupling Approach With GSO-BFOA for Many-Objective Optimization. IEEE Access, 2019, 7, 120248-120261.	4.2	5
108	Secure Tensor Decomposition for Big Data Using Transparent Computing Paradigm. IEEE Transactions on Computers, 2019, 68, 585-596.	3.4	5

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109	Sign language digits and alphabets recognition by capsule networks. Journal of Ambient Intelligence and Humanized Computing, 2022, 13, 2131-2141.	4.9	5
110	A Novel Memory-hard Password Hashing Scheme for Blockchain-based Cyber-physical Systems. ACM Transactions on Internet Technology, 2021, 21, 1-21.	4.4	5
111	Risk-Aware Checkpoint Selection in Cloud-Based Scientific Workflow. , 2012, , .		4
112	Social Sentiment Detection of Event via Microblog. , 2013, , .		4
113	Towards Energy-Efficient Scheduling with Batch Processing for Instance-Intensive Cloud Workflows. , 2018, , .		4
114	Guest Editorial: Big Data Infrastructure I. IEEE Transactions on Big Data, 2018, 4, 148-149.	6.1	4
115	Dual incremental fuzzy schemes for frequent itemsets discovery in streaming numeric data. Information Sciences, 2020, 514, 15-43.	6.9	4
116	Efficient Nonlinear Regression-Based Compression of Big Sensing Data on Cloud. , 2017, , 83-98.		3
117	Big Data Stream Security Classification for IoT Applications. , 2018, , 1-5.		3
118	Secure Outsourced Principal Eigentensor Computation for Cyber-Physical-Social Systems. IEEE Transactions on Sustainable Computing, 2021, 6, 119-130.	3.1	3
119	A service evaluation method for crossâ€cloud service choreography. Concurrency Computation Practice and Experience, 2015, 27, 2373-2389.	2.2	2
120	Guest Editorial: Big Data Infrastructure II. IEEE Transactions on Big Data, 2018, 4, 299-300.	6.1	2
121	Optimal placement of barrier coverage in heterogeneous bistatic radar sensor networks. World Wide Web, 2020, 23, 1361-1380.	4.0	2
122	Big Data Stream Security Classification for IoT Applications. , 2019, , 325-330.		2
123	Querying Streaming XML Big Data with Multiple Filters on Cloud. , 2013, , .		1
124	A Fuzzy Theory Based Topological Distance Measurement for Undirected Multigraphs. , 2020, , .		1
125	A DBN-Based Ensemble Method for Resource Usage Prediction in Clouds. Advances in Intelligent Systems and Computing, 2020, , 943-950.	0.6	1
126	Workflow Refactoring for Concurrent Task Execution. , 2012, , .		0

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127	Guest editorial: Special issue on data intensive cloud computing. Computing (Vienna/New York), 2015, 97, 333-335.	4.8	0
128	An Extensible Toolkit for Resource Usage Prediction in Clouds. , 2019, , .		0
129	Guest editorial: special issue on data science in cyberspace 2019. World Wide Web, 2020, 23, 2489-2490.	4.0	0