Zhong Ming

List of Publications by Year
in descending order

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Version: 2024-02-01

135 papers	4,429 citations	136740 32 h-index	118652 62 g-index
135 all docs	135 docs citations	135 times ranked	4746 citing authors

#	Article	IF	Citations
1	A review on neural networks with random weights. Neurocomputing, 2018, 275, 278-287.	3.5	360
2	Industrial Internet: A Survey on the Enabling Technologies, Applications, and Challenges. IEEE Communications Surveys and Tutorials, 2017, 19, 1504-1526.	24.8	334
3	Phase-Change Memory Optimization for Green Cloud with Genetic Algorithm. IEEE Transactions on Computers, 2015, 64, 3528-3540.	2.4	307
4	Privacy Protection for Preventing Data Over-Collection in Smart City. IEEE Transactions on Computers, 2016, 65, 1339-1350.	2.4	215
5	A Hybrid Path Planning Method in Unmanned Air/Ground Vehicle (UAV/UGV) Cooperative Systems. IEEE Transactions on Vehicular Technology, 2016, 65, 9585-9596.	3.9	184
6	A survey on application of machine learning for Internet of Things. International Journal of Machine Learning and Cybernetics, 2018, 9, 1399-1417.	2.3	179
7	Narrowband Internet of Things: Evolutions, Technologies, and Open Issues. IEEE Internet of Things Journal, 2018, 5, 1449-1462.	5.5	160
8	Spoofing-Jamming Attack Strategy Using Optimal Power Distributions in Wireless Smart Grid Networks. IEEE Transactions on Smart Grid, 2017, 8, 2431-2439.	6.2	159
9	Energy-Aware Data Allocation With Hybrid Memory for Mobile Cloud Systems. IEEE Systems Journal, 2017, 11, 813-822.	2.9	123
10	Joint Optimization of Energy Consumption and Latency in Mobile Edge Computing for Internet of Things. IEEE Internet of Things Journal, 2019, 6, 4791-4803.	5.5	96
11	A User-Centric Data Protection Method for Cloud Storage Based on Invertible DWT. IEEE Transactions on Cloud Computing, 2021, 9, 1293-1304.	3.1	94
12	Blockchain-Based Edge Computing Resource Allocation in IoT: A Deep Reinforcement Learning Approach. IEEE Internet of Things Journal, 2021, 8, 2226-2237.	5.5	93
13	A Novel Energy-Aware Fault Tolerance Mechanism for Wireless Sensor Networks. , 2011, , .		92
14	Fine-Grained Localization for Multiple Transceiver-Free Objects by using RF-Based Technologies. IEEE Transactions on Parallel and Distributed Systems, 2014, 25, 1464-1475.	4.0	76
15	The Bipartite Network Projection-Recommended Algorithm for Predicting Long Non-coding RNA-Protein Interactions. Molecular Therapy - Nucleic Acids, 2018, 13, 464-471.	2.3	74
16	Adaptive resource allocation for preemptable jobs in cloud systems. , 2010, , .		71
17	Pallas: Self-Bootstrapping Fine-Grained Passive Indoor Localization Using WiFi Monitors. IEEE Transactions on Mobile Computing, 2017, 16, 466-481.	3.9	71
18	PSOTrack: A RFID-Based System for Random Moving Objects Tracking in Unconstrained Indoor Environment. IEEE Internet of Things Journal, 2018, 5, 4632-4641.	5.5	63

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19	Computation Partitioning for Mobile Cloud Computing in a Big Data Environment. IEEE Transactions on Industrial Informatics, 2017, 13, 2009-2018.	7.2	60
20	Design of a Real-Time ECG Filter for Portable Mobile Medical Systems. IEEE Access, 2017, 5, 696-704.	2.6	59
21	FedRec: Federated Recommendation With Explicit Feedback. IEEE Intelligent Systems, 2021, 36, 21-30.	4.0	59
22	Transfer Learning for Heterogeneous One-Class Collaborative Filtering. IEEE Intelligent Systems, 2016, 31, 43-49.	4.0	58
23	MDAD: A Special Resource for Microbe-Drug Associations. Frontiers in Cellular and Infection Microbiology, 2018, 8, 424.	1.8	57
24	Zero-Bias Deep Learning for Accurate Identification of Internet-of-Things (IoT) Devices. IEEE Internet of Things Journal, 2021, 8, 2627-2634.	5.5	55
25	In Silico Prediction of Small Molecule-miRNA Associations Based on the HeteSim Algorithm. Molecular Therapy - Nucleic Acids, 2019, 14, 274-286.	2.3	54
26	A Decentralized and Trusted Edge Computing Platform for Internet of Things. IEEE Internet of Things Journal, 2020, 7, 3910-3922.	5.5	52
27	Detection of Interactions between Proteins through Rotation Forest and Local Phase Quantization Descriptors. International Journal of Molecular Sciences, 2016, 17, 21.	1.8	51
28	Association of Germline Variants in Natural Killer Cells With Tumor Immune Microenvironment Subtypes, Tumor-Infiltrating Lymphocytes, Immunotherapy Response, Clinical Outcomes, and Cancer Risk. JAMA Network Open, 2019, 2, e199292.	2.8	49
29	Toward Efficient Mechanisms for Mobile Crowdsensing. IEEE Transactions on Vehicular Technology, 2017, 66, 1760-1771.	3.9	47
30	An Adaptive Markov Strategy for Defending Smart Grid False Data Injection From Malicious Attackers. IEEE Transactions on Smart Grid, 2018, 9, 2398-2408.	6.2	46
31	MPiLoc: Self-Calibrating Multi-Floor Indoor Localization Exploiting Participatory Sensing. IEEE Transactions on Mobile Computing, 2018, 17, 141-154.	3.9	46
32	A novel adaptive hybrid crossover operator for multiobjective evolutionary algorithm. Information Sciences, 2016, 345, 177-198.	4.0	44
33	An effective data locality aware task scheduling method for MapReduce framework in heterogeneous environments. , 2011, , .		36
34	Continuous-Behavior and Discrete-Time Combined Control for Linear Induction Motor-Based Urban Rail Transit. IEEE Transactions on Magnetics, 2016, 52, 1-4.	1.2	36
35	Bidirectional stochastic configuration network for regression problems. Neural Networks, 2021, 140, 237-246.	3.3	35
36	Prediction of Potential Small Molecule-Associated MicroRNAs Using Graphlet Interaction. Frontiers in Pharmacology, 2018, 9, 1152.	1.6	33

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37	A Systematic Review on Cloud Storage Mechanisms Concerning e-Healthcare Systems. Sensors, 2020, 20, 5392.	2.1	33
38	Lightweight Selective Encryption for Social Data Protection Based on EBCOT Coding. IEEE Transactions on Computational Social Systems, 2020, 7, 205-214.	3.2	25
39	A Self-Guided Reference Vector Strategy for Many-Objective Optimization. IEEE Transactions on Cybernetics, 2022, 52, 1164-1178.	6.2	25
40	Interaction-Rich Transfer Learning for Collaborative Filtering with Heterogeneous User Feedback. IEEE Intelligent Systems, 2014, 29, 48-54.	4.0	23
41	Online Sequential Extreme Learning Machine With Dynamic Forgetting Factor. IEEE Access, 2019, 7, 179746-179757.	2.6	23
42	Improved bidirectional extreme learning machine based on enhanced random search. Memetic Computing, 2019, 11, 19-26.	2.7	23
43	Fuzziness-based online sequential extreme learning machine for classification problems. Soft Computing, 2018, 22, 3487-3494.	2.1	22
44	Personalized recommendation with implicit feedback via learning pairwise preferences over item-sets. Knowledge and Information Systems, 2019, 58, 295-318.	2.1	22
45	A study on the relationship between the rank of input data and the performance of random weight neural network. Neural Computing and Applications, 2020, 32, 12685-12696.	3.2	22
46	Joint Optimization of Sensing, Decision-Making and Motion-Controlling for Autonomous Vehicles: A Deep Reinforcement Learning Approach. IEEE Transactions on Vehicular Technology, 2022, 71, 4642-4654.	3.9	22
47	Accuracy-aware wireless indoor localization: Feasibility and applications. Journal of Network and Computer Applications, 2016, 62, 128-136.	5.8	21
48	Security Model of Authentication at the Physical Layer and Performance Analysis over Fading Channels. IEEE Transactions on Dependable and Secure Computing, 2021, 18, 253-268.	3.7	21
49	Collaborative Recommendation with Multiclass Preference Context. IEEE Intelligent Systems, 2017, 32, 45-51.	4.0	20
50	Differential Evolution Algorithm With Tracking Mechanism and Backtracking Mechanism. IEEE Access, 2018, 6, 44252-44267.	2.6	20
51	Cost-Aware Robust Control of Signed Networks by Using a Memetic Algorithm. IEEE Transactions on Cybernetics, 2020, 50, 4430-4443.	6.2	19
52	TCLiVi: Transmission Control in Live Video Streaming Based on Deep Reinforcement Learning. IEEE Transactions on Multimedia, 2021, 23, 651-663.	5.2	19
53	Energy Harvesting-Based Smart Transportation Mode Detection System via Attention-Based LSTM. IEEE Access, 2019, 7, 66423-66434.	2.6	18
54	Accurate RFID localization algorithm withÂparticle swarm optimization based onÂreference tags. Journal of Intelligent and Fuzzy Systems, 2016, 31, 2697-2706.	0.8	17

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55	Robust Jointly Sparse Fuzzy Clustering With Neighborhood Structure Preservation. IEEE Transactions on Fuzzy Systems, 2022, 30, 1073-1087.	6.5	17
56	An Initial Study on the Relationship Between Meta Features of Dataset and the Initialization of NNRW. , 2019, , .		15
57	An Elite Gene Guided Reproduction Operator for Many-Objective Optimization. IEEE Transactions on Cybernetics, 2021, 51, 765-778.	6.2	15
58	A Survey on Heterogeneous One-class Collaborative Filtering. ACM Transactions on Information Systems, 2020, 38, 1-54.	3.8	15
59	Defending jamming attack in wide-area monitoring system for smart grid. Telecommunication Systems, 2015, 60, 159-167.	1.6	14
60	An initial study on the rank of input matrix for extreme learning machine. International Journal of Machine Learning and Cybernetics, 2018, 9, 867-879.	2.3	14
61	1D Barcode Detection via Integrated Deep-Learning and Geometric Approach. Applied Sciences (Switzerland), 2019, 9, 3268.	1.3	14
62	A further study on biologically inspired feature enhancement in zero-shot learning. International Journal of Machine Learning and Cybernetics, 2021, 12, 257-269.	2.3	14
63	Next-Item Recommendation via Collaborative Filtering with Bidirectional Item Similarity. ACM Transactions on Information Systems, 2020, 38, 1-22.	3.8	14
64	Improved softmax loss for deep learningâ€based face and expression recognition. Cognitive Computation and Systems, 2019, 1, 97-102.	0.8	13
65	Differential evolution algorithm with dichotomy-based parameter space compression. Soft Computing, 2019, 23, 3643-3660.	2.1	13
66	An Efficient Ciphertext-Policy Attribute-Based Encryption Scheme Supporting Collaborative Decryption With Blockchain. IEEE Internet of Things Journal, 2022, 9, 2722-2733.	5.5	13
67	DLREFD: a database providing associations of long non-coding RNAs, environmental factors and phenotypes. Database: the Journal of Biological Databases and Curation, 2017, 2017, .	1.4	12
68	Adaptive Pairwise Preference Learning for Collaborative Recommendation with Implicit Feedbacks. , 2014, , .		10
69	Secure Hashing-Based Verifiable Pattern Matching. IEEE Transactions on Information Forensics and Security, 2018, 13, 2677-2690.	4.5	10
70	EBI-PAI: Toward an Efficient Edge-Based IoT Platform for Artificial Intelligence. IEEE Internet of Things Journal, 2021, 8, 9580-9593.	5.5	10
71	Gait Recognition as a Service for Unobtrusive User Identification in Smart Spaces. ACM Transactions on Internet of Things, 2020, 1, 1-21.	3.4	10
72	SVM-Based Video Scene Classification and Segmentation. , 2008, , .		9

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73	Fuzziness Based Random Vector Functional-Link Network for Semi-supervised Learning. , 2017, , .		9
74	A path-based computational model for long non-coding RNA-protein interaction prediction. Genomics, 2020, 112, 1754-1760.	1.3	9
75	A Five-Phase Doubly Fed Doubly Salient HTS Linear Motor for Vertical Transportation. IEEE Transactions on Applied Superconductivity, 2018, 28, 1-5.	1.1	8
76	Domain-specific data mining for residents' transit pattern retrieval from incomplete information. Journal of Network and Computer Applications, 2019, 134, 62-71.	5.8	8
77	A Novel Hybrid Multi-Objective Particle Swarm Optimization Algorithm With an Adaptive Resource Allocation Strategy. IEEE Access, 2019, 7, 177082-177100.	2.6	8
78	A novel method to predict protein-protein interactions based on the information of protein sequence. , 2012, , .		7
79	Directional Gaussian Model for Automatic Speeding Event Detection. IEEE Transactions on Information Forensics and Security, 2017, 12, 2292-2307.	4.5	7
80	Biased Random Walk With Restart on Multilayer Heterogeneous Networks for MiRNAâ€“Disease Association Prediction. Frontiers in Genetics, 2021, 12, 720327.	1.1	7
81	Evolutionary Search with Multiple Utopian Reference Points in Decomposition-Based Multiobjective Optimization. Complexity, 2019, 2019, 1-22.	0.9	6
82	A Secure and Decentralized DLaaS Platform for Edge Resource Scheduling Against Adversarial Attacks. IEEE Transactions on Computers, 2024, 73, 631-644.	2.4	6
83	Automatic Audio Genre Classification Based on Support Vector Machine. , 2007, , .		5
84	Hierarchical alternating least squares algorithm with Sparsity Constraint for hyperspectral unmixing. , 2010, , .		5
85	Secure and efficient parallel hash function construction and its application on cloud audit. Soft Computing, 2019, 23, 8907-8925.	2.1	5
86	A Biologically Inspired Feature Enhancement Framework for Zero-Shot Learning. , 2020, , .		5
87	Survey of recommender systems based on federated learning. Scientia Sinica Informationis, 2022, 52, 713.	0.2	5
88	Reducing periodic noise using soft morphology filter. Journal of Electronics, 2004, 21, 159-162.	0.2	4
89	Learning Concept Hierarchy from Folksonomy. , 2011, , .		4
90	Fast and robust symmetry detection for brain images based on parallel scaleâ€invariant feature transform matching and voting. International Journal of Imaging Systems and Technology, 2013, 23, 314-326.	2.7	4

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91	How to Evaluate Single-Round Dialogues Like Humans: An Information-Oriented Metric. IEEE/ACM Transactions on Audio Speech and Language Processing, 2020, 28, 2211-2223.	4.0	4
92	Sequence-aware similarity learning for next-item recommendation. Journal of Supercomputing, 2021, 77, 7509-7534.	2.4	4
93	A Generic Federated Recommendation Framework via Fake Marks and Secret Sharing. ACM Transactions on Information Systems, 2023, 41, 1-37.	3.8	4
94	Design and Optimization of Traffic Balance Broker for Cloud-Based Telehealth Platform. , 2013, , .		3
95	The Edge Weight Computation with MapReduce for Extracting Weighted Graphs. IEEE Transactions on Parallel and Distributed Systems, 2016, 27, 3659-3672.	4.0	3
96	Orderly Roulette Selection Based Ant Colony Algorithm for Hierarchical Multilabel Protein Function Prediction. Mathematical Problems in Engineering, 2017, 2017, 1-15.	0.6	3
97	A study on unstable cuts and its application to sample selection. International Journal of Machine Learning and Cybernetics, 2018, 9, 1541-1552.	2.3	3
98	A Constrained Solution Update Strategy for Multiobjective Evolutionary Algorithm Based on Decomposition. Complexity, 2019, 2019, 1-11.	0.9	3
99	An improve face representation and recognition method based on graph regularized non-negative matrix factorization. Multimedia Tools and Applications, 2019, 78, 22109-22126.	2.6	3
100	A Rainbow-Based Authentical Scheme for Securing Smart Connected Health Systems. Journal of Medical Systems, 2019, 43, 276.	2.2	3
101	Toward data-driven solutions to interactive dynamic influence diagrams. Knowledge and Information Systems, 2021, 63, 2431-2453.	2.1	3
102	Optimization of Workflow Pre-Scheduling Based on Nested Genetic Algorithm. , 2010, , .		2
103	A component-level self-configuring personal agent platform for pervasive computing. International Journal of Parallel, Emergent and Distributed Systems, 2011, 26, 223-238.	0.7	2
104	A Remainder-Based Contention-Avoidance Scheme for Saturated Wireless CSMA Networks. IEEE Transactions on Vehicular Technology, 2013, 62, 772-782.	3.9	2
105	A bio-inspired approach to task assignment of multi-robots. , 2014, , .		2
106	A similarity measurement based on structure of Business Process. , 2016, , .		2
107	A Novel Multiobjective Particle Swarm Optimization Algorithm with Dynamic Resource Allocation. , 2019, , .		2
108	Transfer to Rank for Top-N Recommendation. IEEE Transactions on Big Data, 2020, 6, 770-779.	4.4	2

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109	Balancing Convergence and Diversity in Multiobjective Immune Algorithm. , 2020, , .		2
110	Computational Models for Self-Interacting Proteins Prediction. Protein and Peptide Letters, 2020, 27, 392-399.	0.4	2
111	Role-Oriented Workflow Modeling Based on Object Petri Net. , 2008, , .		1
112	Partheno-Genetic Algorithm for Test Instruction Generation. , 2008, , .		1
113	Porting and Optimizing SOAP2 on Loongson Architecture. , 2015, , .		1
114	Information-Oriented Evaluation Metric for Dialogue Response Generation Systems. , 2018, , .		1
115	Adaptive Transfer Learning for Heterogeneous One-Class Collaborative Filtering. , 2020, , .		1
116	Sequence-Aware Factored Mixed Similarity Model for Next-Item Recommendation. , 2020, , .		1
117	Holistic Transfer to Rank for Top-N Recommendation. ACM Transactions on Interactive Intelligent Systems, 2021, 11, 1-1.	2.6	1
118	An Improved Weighted Optimization-based Framework for Large-scale MOPs. , 2021, , .		1
119	BALC: A Belief Extension of Description Logic ALC. , 2008, , .		0
120	An efficient block structure for incremental inverted indexing. , 2012, , .		0
121	Formalizing Workflow with Location Constraints by Colored Petri Nets. , 2014, , .		0
122	Performance Profiling of VMs on NUMA Multicore Platform by Inspecting the Uncore Data Flow. , 2015, , .		0
123	Optimize the FP-Tree Based Graph Edge Weight Computation on Multi-core MapReduce Clusters. , 2017, , .		0
124	SODAR: Nonobtrusive Off-Line Social Structure Reconstruction Through Passive Wireless Sensing. IEEE Transactions on Computational Social Systems, 2018, 5, 871-883.	3.2	0
125	Research on Virtual Reality Arm Motion Capture and Recognition. , 2019, , .		0
126	A GAN-based Active Terrain Mapping for Collaborative Air-Ground Robotic System. , 2019, , .		0

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127	PAT: Preference-Aware Transfer Learning for Recommendation with Heterogeneous Feedback. , 2020, , .		0
128	Dual Similarity Learning for Heterogeneous One-Class Collaborative Filtering. , 2020, , .		0
129	Towards Dynamic Verifiable Pattern Matching. IEEE Transactions on Big Data, 2021, 7, 421-435.	4.4	0
130	A DNA-Based Cryptosystem with Length-Fixed Sticker Model. Journal of Computational and Theoretical Nanoscience, 2015, 12, 5421-5424.	0.4	0
131	Collaborative filtering with implicit feedback via learning pairwise preferences over user-groups and item-sets. CCF Transactions on Pervasive Computing and Interaction, 0, , 1.	1.7	0
132	A Modified Decomposition Based Multi-objective Optimization Algorithm for High Dimensional Feature Selection. , 2021, , .		0
133	Adapting Decomposed Directions for Evolutionary Multiobjective Optimization. IEEE Transactions on Cybernetics, 2022, PP, 1-14.	6.2	0
134	When Multi-access Edge Computing Meets Multi-area Intelligent Reflecting Surface: A Multi-agent Reinforcement Learning Approach. , 2022, , .		0
135	Multi-Constraint Deep Reinforcement Learning for Smooth Action Control. , 2022, , .		0