

Wenzhong Guo

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

121
papers

1,936
citations

24
h-index

40
g-index

150
ext. papers

2,426
ext. citations

3.6
avg, IF

5.67
L-index

#	Paper	IF	Citations
121	Graph neural networks in node classification: survey and evaluation. <i>Machine Vision and Applications</i> , 2022 , 33, 1	2.8	1
120	Unsupervised deep clustering via contractive feature representation and focal loss. <i>Pattern Recognition</i> , 2022 , 123, 108386	7.7	3
119	Design automation for continuous-flow microfluidic biochips: A comprehensive review. <i>The Integration VLSI Journal</i> , 2022 , 82, 48-66	1.4	2
118	Design Automation for Continuous-Flow Lab-on-a-Chip Systems: A One-Pass Paradigm. <i>IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems</i> , 2022 , 1-1	2.5	
117	MiniControl 2.0: Co-Synthesis of Flow and Control Layers for Microfluidic Biochips with Strictly Constrained Control Ports. <i>IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems</i> , 2022 , 1-1	2.5	0
116	SGAE: Stacked Graph Autoencoder for Deep Clustering. <i>IEEE Transactions on Big Data</i> , 2022 , 1-1	3.2	1
115	The Component Diagnosability of General Networks. <i>International Journal of Foundations of Computer Science</i> , 2022 , 33, 67-89	0.6	
114	Network Embedding Based on Biased Random Walk for Community Detection in Attributed Networks. <i>IEEE Transactions on Computational Social Systems</i> , 2022 , 1-12	4.5	
113	100+ FPS detector of personal protective equipment for worker safety: A deep learning approach for green edge computing. <i>Peer-to-Peer Networking and Applications</i> , 2021 , 1-23	3.1	0
112	Towards Evaluating the Reliability of Deep Neural Networks based IoT Devices. <i>IEEE Internet of Things Journal</i> , 2021 , 1-1	10.7	0
111	Drug-drug interaction prediction with Wasserstein Adversarial Autoencoder-based knowledge graph embeddings. <i>Briefings in Bioinformatics</i> , 2021 , 22,	13.4	10
110	Three-Dimensional Object Co-Localization From Mobile LiDAR Point Clouds. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2021 , 22, 1996-2007	6.1	0
109	Boundary-Aware and Semiautomatic Segmentation of 3-D Object in Point Clouds. <i>IEEE Geoscience and Remote Sensing Letters</i> , 2021 , 18, 910-914	4.1	4
108	Computer-aided Design Techniques for Flow-based Microfluidic Lab-on-a-chip Systems. <i>ACM Computing Surveys</i> , 2021 , 54, 1-29	13.4	8
107	Efficient Analysis of Repairable Computing Systems Subject to Scheduled Checkpointing. <i>IEEE Transactions on Dependable and Secure Computing</i> , 2021 , 18, 1-14	3.9	16
106	A framework based on sparse representation model for time series prediction in smart city. <i>Frontiers of Computer Science</i> , 2021 , 15, 1	2.2	8
105	PathDriver+: Enhanced Path-Driven Architecture Design for Flow-Based Microfluidic Biochips. <i>IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems</i> , 2021 , 1-1	2.5	3

104	ML-KELM: A Kernel Extreme Learning Machine Scheme for Multi-Label Classification of Real Time Data Stream in 5G. <i>IEEE Transactions on Network Science and Engineering</i> , 2021 , 1-1	4.9	2
103	Object Tracking by the Least Spatiotemporal Searches. <i>IEEE Internet of Things Journal</i> , 2021 , 8, 12934-12946	4.6	1
102	Flow-Based Microfluidic Biochips with Distributed Channel Storage: Synthesis, Physical Design, and Wash Optimization. <i>IEEE Transactions on Computers</i> , 2021 , 1-1	2.5	6
101	Discovering Overlapping Communities in Dynamic Networks Based on Cascade Information Diffusion. <i>IEEE Transactions on Computational Social Systems</i> , 2021 , 1-13	4.5	2
100	Dual Traceable Distributed Attribute-based Searchable Encryption and Ownership Transfer. <i>IEEE Transactions on Cloud Computing</i> , 2021 , 1-1	3.3	3
99	BigIntegr: One-Pass Architectural Synthesis for Continuous-Flow Microfluidic Lab-on-a-Chip Systems 2021 ,		3
98	VarDefense: Variance-Based Defense against Poison Attack. <i>Wireless Communications and Mobile Computing</i> , 2021 , 2021, 1-9	1.9	
97	A Survey on Knowledge Graph Embedding: Approaches, Applications and Benchmarks. <i>Electronics (Switzerland)</i> , 2020 , 9, 750	2.6	37
96	Reliability Evaluation of Generalized ExchangedX-Cubes Based on the Condition ofg-Good-Neighbor. <i>Wireless Communications and Mobile Computing</i> , 2020 , 2020, 1-16	1.9	
95	A survey on automatic image annotation. <i>Applied Intelligence</i> , 2020 , 50, 3412-3428	4.9	9
94	MiniDelay: Multi-Strategy Timing-Aware Layer Assignment for Advanced Technology Nodes 2020 ,		3
93	Multimedia access control with secure provenance in fog-cloud computing networks. <i>Multimedia Tools and Applications</i> , 2020 , 79, 10701-10716	2.5	2
92	Contour Accentuation for Transfer Learning-Based Ship Recognition Method 2020 ,		1
91	Privacy-Preserving Compressive Sensing for Real-Time Traffic Monitoring in Urban City. <i>IEEE Transactions on Vehicular Technology</i> , 2020 , 69, 14510-14522	6.8	3
90	Generative adversarial networks based on Wasserstein distance for knowledge graph embeddings. <i>Knowledge-Based Systems</i> , 2020 , 190, 105165	7.3	15
89	Unsupervised discriminative feature representation via adversarial auto-encoder. <i>Applied Intelligence</i> , 2020 , 50, 1155-1171	4.9	7
88	An Unsupervised Detection Approach for Hardware Trojans. <i>IEEE Access</i> , 2020 , 8, 158169-158183	3.5	7
87	Social-Aware Task Allocation in Mobile Crowd Sensing. <i>Wireless Communications and Mobile Computing</i> , 2020 , 2020, 1-15	1.9	0

86	A Survey of DMFBs Security: State-of-the-Art Attack and Defense 2020 ,		6
85	MiniDeviation: An Efficient Multi-Stage Bus-Aware Global Router 2020 ,		3
84	Pairwise Learning to Rank for Image Quality Assessment. <i>IEEE Access</i> , 2020 , 8, 192352-192367	3.5	1
83	Reliability Analysis of IoT Networks with Community Structures. <i>IEEE Transactions on Network Science and Engineering</i> , 2020 , 7, 304-315	4.9	5
82	Timing-Driven Flow-Channel Network Construction for Continuous-Flow Microfluidic Biochips. <i>IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems</i> , 2020 , 39, 1314-1327	2.5	13
81	An Unsupervised Embedding Learning Feature Representation Scheme for Network Big Data Analysis. <i>IEEE Transactions on Network Science and Engineering</i> , 2020 , 7, 115-126	4.9	13
80	A local community detection algorithm based on internal force between nodes. <i>Applied Intelligence</i> , 2020 , 50, 328-340	4.9	23
79	A unified algorithm based on HTS and self-adapting PSO for the construction of octagonal and rectilinear SMT. <i>Soft Computing</i> , 2020 , 24, 3943-3961	3.5	45
78	3-D Object Classification in Heterogeneous Point Clouds via Bag-of-Words and Joint Distribution Adaption. <i>IEEE Geoscience and Remote Sensing Letters</i> , 2019 , 16, 1909-1913	4.1	4
77	Correlation-Aware Stripe Organization for Efficient Writes in Erasure-Coded Storage: Algorithms and Evaluation. <i>IEEE Transactions on Parallel and Distributed Systems</i> , 2019 , 30, 1552-1564	3.7	3
76	Overlapping Community Detection Algorithm Based on Coarsening and Local Overlapping Modularity. <i>IEEE Access</i> , 2019 , 7, 57943-57955	3.5	13
75	Clustering based interest prediction in social networks. <i>Multimedia Tools and Applications</i> , 2019 , 78, 32755-32774	5.5	34
74	A Survey of Task Allocation: Contrastive Perspectives From Wireless Sensor Networks and Mobile Crowdsensing. <i>IEEE Access</i> , 2019 , 7, 78406-78420	3.5	20
73	MiniControl 2019 ,		12
72	Blockchain-Based Verifiable Multi-Keyword Ranked Search on Encrypted Cloud With Fair Payment. <i>IEEE Access</i> , 2019 , 7, 140818-140832	3.5	16
71	Privacy-Preserving Compressive Sensing for Traffic Estimation 2019 ,		2
70	Blockchain-Based Incentive Announcement System for Internet of Vehicles 2019 ,		2
69	Stacked Sparse Auto-Encoder for Deep Clustering 2019 ,		1

68	Physical Synthesis of Flow-Based Microfluidic Biochips Considering Distributed Channel Storage 2019 ,		14
67	A Unified Scheme for Distance Metric Learning and Clustering via Rank-Reduced Regression. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , 2019 , 1-12	7.3	4
66	Dense small face detection based on regional cascade multi-scale method. <i>IET Image Processing</i> , 2019 , 13, 2796-2804	1.7	6
65	Using High-Bandwidth Networks Efficiently for Fast Graph Computation. <i>IEEE Transactions on Parallel and Distributed Systems</i> , 2019 , 30, 1170-1183	3.7	30
64	Privacy-preserving smart IoT-based healthcare big data storage and self-adaptive access control system. <i>Information Sciences</i> , 2019 , 479, 567-592	7.7	172
63	A Kernel-Based Compressive Sensing Approach for Mobile Data Gathering in Wireless Sensor Network Systems. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , 2018 , 48, 2315-2327	7.3	68
62	Participant selection for t-sweep k-coverage crowd sensing tasks. <i>World Wide Web</i> , 2018 , 21, 741-758	2.9	10
61	Efficient Traceable Authorization Search System for Secure Cloud Storage. <i>IEEE Transactions on Cloud Computing</i> , 2018 , 1-1	3.3	31
60	Efficient Regular Language Search for Secure Cloud Storage. <i>IEEE Transactions on Cloud Computing</i> , 2018 , 1-1	3.3	4
59	Region-Aware Image Denoising by Exploring Parameter Preference. <i>IEEE Transactions on Circuits and Systems for Video Technology</i> , 2018 , 28, 2433-2438	6.4	9
58	Meta-metric for saliency detection evaluation metrics based on application preference. <i>Multimedia Tools and Applications</i> , 2018 , 77, 26351-26369	2.5	40
57	Multitask Allocation to Heterogeneous Participants in Mobile Crowd Sensing. <i>Wireless Communications and Mobile Computing</i> , 2018 , 2018, 1-10	1.9	24
56	MLXR: multi-layer obstacle-avoiding X-architecture Steiner tree construction for VLSI routing. <i>Science China Information Sciences</i> , 2017 , 60, 1	3.4	16
55	. <i>IEEE Transactions on Multimedia</i> , 2017 , 19, 1454-1466	6.6	53
54	A multi-label classification algorithm based on kernel extreme learning machine. <i>Neurocomputing</i> , 2017 , 260, 313-320	5.4	75
53	Data equilibrium based automatic image annotation by fusing deep model and semantic propagation. <i>Pattern Recognition</i> , 2017 , 71, 60-77	7.7	20
52	Land-Use Classification via Extreme Learning Classifier Based on Deep Convolutional Features. <i>IEEE Geoscience and Remote Sensing Letters</i> , 2017 , 14, 704-708	4.1	78
51	Spatial-Temporal Data Collection with Compressive Sensing in Mobile Sensor Networks. <i>Sensors</i> , 2017 , 17,	3.8	16

50	Correlation-Aware Stripe Organization for Efficient Writes in Erasure-Coded Storage Systems 2017 ,		2
49	Robust co-clustering via dual local learning and high-order matrix factorization. <i>Knowledge-Based Systems</i> , 2017 , 138, 176-187	7.3	52
48	Evaluation of visual saliency analysis algorithms in noisy images. <i>Machine Vision and Applications</i> , 2016 , 27, 915-927	2.8	5
47	Multi-scale salient region and relevant visual keywords based model for automatic image annotation. <i>Multimedia Tools and Applications</i> , 2016 , 75, 12477-12498	2.5	2
46	FH-OAOS. <i>ACM Transactions on Design Automation of Electronic Systems</i> , 2016 , 21, 1-31	1.5	36
45	A Game Theory Algorithm for Intra-Cluster Data Aggregation in a Vehicular Ad Hoc Network. <i>Sensors</i> , 2016 , 16, 245	3.8	12
44	Interest prediction in social networks based on Markov chain modeling on clustered users. <i>Concurrency Computation Practice and Experience</i> , 2016 , 28, 3895-3909	1.4	9
43	Online optimization scheduling for scientific workflows with deadline constraint on hybrid clouds. <i>Concurrency Computation Practice and Experience</i> , 2016 , 28, 3079-3095	1.4	26
42	Framework for Context-Aware Computation Offloading in Mobile Cloud Computing 2016 ,		7
41	A Pretreatment Workflow Scheduling Approach for Big Data Applications in Multicloud Environments. <i>IEEE Transactions on Network and Service Management</i> , 2016 , 13, 581-594	4.8	96
40	Runtime model based approach to IoT application development. <i>Frontiers of Computer Science</i> , 2015 , 9, 540-553	2.2	71
39	Fast obstacle-avoiding octilinear steiner minimal tree construction algorithm for VLSI design 2015 ,		3
38	Cost-Driven Scheduling for Deadline-Constrained Workflow on Multi-clouds 2015 ,		12
37	A PSO-based timing-driven Octilinear Steiner tree algorithm for VLSI routing considering bend reduction. <i>Soft Computing</i> , 2015 , 19, 1153-1169	3.5	72
36	Popular Topic Detection in Chinese Micro-Blog Based on the Modified LDA Model 2015 ,		5
35	XGRouter: high-quality global router in X-architecture with particle swarm optimization. <i>Frontiers of Computer Science</i> , 2015 , 9, 576-594	2.2	42
34	Towards Model Based Approach to Hadoop Deployment and Configuration 2015 ,		4
33	Multi-scale saliency detection via inter-regional shortest colour path. <i>IET Computer Vision</i> , 2015 , 9, 290-299		7

32	Real-Time Task Scheduling Algorithm for Cloud Computing Based on Particle Swarm Optimization. <i>Lecture Notes in Computer Science</i> , 2015 , 141-152	0.9	1
31	A PSO-Optimized Real-Time Fault-Tolerant Task Allocation Algorithm in Wireless Sensor Networks. <i>IEEE Transactions on Parallel and Distributed Systems</i> , 2015 , 26, 3236-3249	3.7	91
30	XGRouter: high-quality global router in X-architecture with particle swarm optimization. <i>Frontiers of Computer Science</i> , 2015 , 9, 576	2.2	1
29	A hybrid multi-objective PSO algorithm with local search strategy for VLSI partitioning. <i>Frontiers of Computer Science</i> , 2014 , 8, 203-216	2.2	45
28	A Model-Based Autonomous Engine for Application Runtime Environment Configuration and Deployment in PaaS Cloud 2014 ,		2
27	Reliable adaptive data aggregation route strategy for a trade-off between energy and lifetime in WSNs. <i>Sensors</i> , 2014 , 14, 16972-93	3.8	8
26	Data Replication Placement Strategy Based On Bidding Mode for Cloud Storage Cluster 2014 ,		7
25	Service-Oriented Node Scheduling Schemes with Energy Efficiency in Wireless Sensor Networks. <i>International Journal of Distributed Sensor Networks</i> , 2014 , 10, 247173	1.7	11
24	A Game Theoretical Fault-Tolerant Task Scheduling Algorithm for Wireless Sensor Network 2013 ,		2
23	Self-Learning MapReduce Scheduler in Multi-job Environment 2013 ,		2
22	Obstacle-Avoiding Octagonal Steiner Tree construction based on Particle Swarm Optimization 2013 ,		8
21	A PSO-Optimized Minimum Spanning Tree-Based Topology Control Scheme for Wireless Sensor Networks. <i>International Journal of Distributed Sensor Networks</i> , 2013 , 9, 985410	1.7	11
20	A coevolutionary multi-objective PSO algorithm for VLSI floorplanning 2012 ,		2
19	DPSO based Octagonal Steiner Tree algorithm for VLSI routing 2012 ,		10
18	A New Task Allocation Algorithm Based on Dynamic Coalition in WSNs 2012 ,		1
17	Energy-balanced Sleep Scheduling Based on Particle Swarm Optimization in Wireless Sensor Network 2012 ,		4
16	Distributed k-connected fault-tolerant topology control algorithms with PSO in future autonomic sensor systems. <i>International Journal of Sensor Networks</i> , 2012 , 12, 53	0.8	67
15	Obstacle-avoiding rectilinear Steiner minimum tree construction based on Discrete Particle Swarm Optimization 2011 ,		4

14	Multi-Source Temporal Data Aggregation in Wireless Sensor Networks. <i>Wireless Personal Communications</i> , 2011 , 56, 359-370	1.9	52
13	Design and Analysis of a MST-Based Topology Control Scheme with PSO for Wireless Sensor Networks 2011 ,		6
12	DPSO-based Rectilinear Steiner Minimal Tree construction considering bend reduction 2011 ,		12
11	Design and analysis of self-adapted task scheduling strategies in wireless sensor networks. <i>Sensors</i> , 2011 , 11, 6533-54	3.8	39
10	A PSO-based intelligent decision algorithm for VLSI floorplanning. <i>Soft Computing</i> , 2010 , 14, 1329-1337	3.5	48
9	A GEP-Based Anomaly Detection Scheme in Wireless Sensor Networks 2009 ,		1
8	A Research and Application of Continuous Attributes Discretization Based on Cloud Model and Information Entropy 2009 ,		1
7	Topology control in wireless sensor networks based on discrete particle swarm optimization 2009 ,		1
6	A Multi-Agent-Based Adaptive Task Allocation Algorithm in Wireless Sensor Networks 2009 ,		2
5	PSO-BPNN-Based Prediction of Network Security Situation 2008 ,		11
4	Solving Multi-criteria Minimum Spanning Tree Problem with Discrete Particle Swarm Optimization 2007 ,		5
3	A New Strategy of Acceleration Coefficients for Particle Swarm Optimization 2006 ,		3
2	Network representation learning based on community-aware and adaptive random walk for overlapping community detection. <i>Applied Intelligence</i> ,1	4.9	1
1	Learning deep convolutional descriptor aggregation for efficient visual tracking. <i>Neural Computing and Applications</i> ,1	4.8	