

# Zexuan Zhu

## List of Publications by Year in descending order

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108  
papers

4,102  
citations

147566

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h-index

123241

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g-index

110  
all docs

110  
docs citations

110  
times ranked

3315  
citing authors

#	ARTICLE	IF	CITATIONS
1	Multiobjectivization of Single-Objective Optimization in Evolutionary Computation: A Survey. IEEE Transactions on Cybernetics, 2023, 53, 3702-3715.	6.2	32
2	Evolutionary Multitasking for Optimization Based on Generative Strategies. IEEE Transactions on Evolutionary Computation, 2023, 27, 1042-1056.	7.5	9
3	A Dynamic Multiobjective Evolutionary Algorithm Based on Decision Variable Classification. IEEE Transactions on Cybernetics, 2022, 52, 1602-1615.	6.2	30
4	Evolutionary Multitasking for Multiobjective Optimization With Subspace Alignment and Adaptive Differential Evolution. IEEE Transactions on Cybernetics, 2022, 52, 2096-2109.	6.2	50
5	Multiobjective Evolutionary Multitasking With Two-Stage Adaptive Knowledge Transfer Based on Population Distribution. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2022, 52, 4457-4469.	5.9	29
6	Evolutionary Many-Task Optimization Based on Multisource Knowledge Transfer. IEEE Transactions on Evolutionary Computation, 2022, 26, 319-333.	7.5	30
7	Multi-objective evolutionary multi-tasking algorithm using cross-dimensional and prediction-based knowledge transfer. Information Sciences, 2022, 586, 540-562.	4.0	9
8	Merged Differential Grouping for Large-Scale Global Optimization. IEEE Transactions on Evolutionary Computation, 2022, 26, 1439-1451.	7.5	13
9	A dynamic multi-objective evolutionary algorithm based on polynomial regression and adaptive clustering. Swarm and Evolutionary Computation, 2022, 71, 101075.	4.5	3
10	Enhanced Multifactorial Evolutionary Algorithm With Meme Helper-Tasks. IEEE Transactions on Cybernetics, 2022, 52, 7837-7851.	6.2	20
11	MarkerGenie: an NLP-enabled text-mining system for biomedical entity relation extraction. Bioinformatics Advances, 2022, 2, .	0.9	6
12	CURC: a CUDA-based reference-free read compressor. Bioinformatics, 2022, 38, 3294-3296.	1.8	1
13	Identifying Autism Spectrum Disorder From Resting-State fMRI Using Deep Belief Network. IEEE Transactions on Neural Networks and Learning Systems, 2021, 32, 2847-2861.	7.2	68
14	Identification of Autistic Risk Candidate Genes and Toxic Chemicals via Multilabel Learning. IEEE Transactions on Neural Networks and Learning Systems, 2021, 32, 3971-3984.	7.2	11
15	An Indicator-Based Many-Objective Evolutionary Algorithm With Boundary Protection. IEEE Transactions on Cybernetics, 2021, 51, 4553-4566.	6.2	43
16	Toward Adaptive Knowledge Transfer in Multifactorial Evolutionary Computation. IEEE Transactions on Cybernetics, 2021, 51, 2563-2576.	6.2	104
17	Multimodal Multiobjective Evolutionary Optimization With Dual Clustering in Decision and Objective Spaces. IEEE Transactions on Evolutionary Computation, 2021, 25, 130-144.	7.5	78
18	Decomposition-based multiobjective optimization with bicriteria assisted adaptive operator selection. Swarm and Evolutionary Computation, 2021, 60, 100790.	4.5	11

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19	A Many-Objective Evolutionary Algorithm Based on a Two-Round Selection Strategy. IEEE Transactions on Cybernetics, 2021, 51, 1417-1429.	6.2	38
20	Solving Generalized Vehicle Routing Problem With Occasional Drivers via Evolutionary Multitasking. IEEE Transactions on Cybernetics, 2021, 51, 3171-3184.	6.2	55
21	Assistant reference point guided evolutionary algorithm for many-objective fuzzy portfolio selection. Swarm and Evolutionary Computation, 2021, 62, 100862.	4.5	9
22	A feedback-based prediction strategy for dynamic multi-objective evolutionary optimization. Expert Systems With Applications, 2021, 172, 114594.	4.4	11
23	An Adaptive Multi-objective Multifactorial Evolutionary Algorithm Based on Mixture Gaussian Distribution. , 2021, , .		1
24	Multi-objective memetic algorithm for core-periphery structure detection in complex network. Memetic Computing, 2021, 13, 285-306.	2.7	7
25	Quantitative analysis of bisphenol analogue mixtures by terahertz spectroscopy using machine learning method. Food Chemistry, 2021, 352, 129313.	4.2	25
26	S2A: Scale-Attention-Aware Networks for Video Super-Resolution. Entropy, 2021, 23, 1398.	1.1	4
27	Memetic Algorithm Based on Community Detection for Energy-Efficient Service Migration Optimization in 5G Mobile Edge Computing. , 2021, , .		0
28	ATEN: And/Or tree ensemble for inferring accurate Boolean network topology and dynamics. Bioinformatics, 2020, 36, 578-585.	1.8	13
29	MUMI: Multitask Module Identification for Biological Networks. IEEE Transactions on Evolutionary Computation, 2020, 24, 765-776.	7.5	12
30	Tracking Moving Optima of Dynamic Multi-objective Problem via Prediction in Objective Space. , 2020, , .		0
31	Multi-objective multi-factorial memetic algorithm based on bone route and large neighborhood local search for VRPTW. , 2020, , .		11
32	A Survey of Weight Vector Adjustment Methods for Decomposition-Based Multiobjective Evolutionary Algorithms. IEEE Transactions on Evolutionary Computation, 2020, 24, 634-649.	7.5	104
33	Joint learning of multiple gene networks from single-cell gene expression data. Computational and Structural Biotechnology Journal, 2020, 18, 2583-2595.	1.9	10
34	Multi-objective multifactorial evolutionary algorithm enhanced with the weighting helper-task. , 2020, , .		4
35	Weighted Fused Pathway Graphical Lasso for Joint Estimation of Multiple Gene Networks. Frontiers in Genetics, 2019, 10, 623.	1.1	11
36	Multi-objective memetic algorithm based on correlation priority for pickup-and-delivery problems. , 2019, , .		1

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37	Multifactorial Evolutionary Algorithm Enhanced with Cross-task Search Direction. , 2019, , .		17
38	Multimodal Multi-objective Optimization Using A Density-based One-by-One Update Strategy. , 2019, , .		8
39	A hybrid of genetic transform and hyper-rectangle search strategies for evolutionary multi-tasking. Expert Systems With Applications, 2019, 138, 112798.	4.4	60
40	Multifactorial Differential Evolution with Opposition-based Learning for Multi-tasking Optimization. , 2019, , .		21
41	Predicting lncRNA-miRNA Interaction via Graph Convolution Auto-Encoder. Frontiers in Genetics, 2019, 10, 758.	1.1	41
42	Two new reference vector adaptation strategies for many-objective evolutionary algorithms. Information Sciences, 2019, 483, 332-349.	4.0	13
43	Hybrid of memory and prediction strategies for dynamic multiobjective optimization. Information Sciences, 2019, 485, 200-218.	4.0	80
44	lncRNA-Disease Association Prediction Using Two-Side Sparse Self-Representation. Frontiers in Genetics, 2019, 10, 476.	1.1	17
45	Evolutionary Search with Multiple Utopian Reference Points in Decomposition-Based Multiobjective Optimization. Complexity, 2019, 2019, 1-22.	0.9	6
46	Predicting synthetic lethal interactions in human cancers using graph regularized self-representative matrix factorization. BMC Bioinformatics, 2019, 20, 657.	1.2	24
47	A Survey on Cooperative Co-Evolutionary Algorithms. IEEE Transactions on Evolutionary Computation, 2019, 23, 421-441.	7.5	177
48	Differential evolution algorithm with dichotomy-based parameter space compression. Soft Computing, 2019, 23, 3643-3660.	2.1	13
49	A Two-Level Transfer Learning Algorithm for Evolutionary Multitasking. Frontiers in Neuroscience, 2019, 13, 1408.	1.4	25
50	Concept Drift Adaptation by Exploiting Historical Knowledge. IEEE Transactions on Neural Networks and Learning Systems, 2018, 29, 4822-4832.	7.2	82
51	RepLong: <i>de novo</i> repeat identification using long read sequencing data. Bioinformatics, 2018, 34, 1099-1107.	1.8	21
52	On Tchebycheff Decomposition Approaches for Multiobjective Evolutionary Optimization. IEEE Transactions on Evolutionary Computation, 2018, 22, 226-244.	7.5	135
53	A novel differential evolution algorithm with a self-adaptation parameter control method by differential evolution. Soft Computing, 2018, 22, 6171-6190.	2.1	23
54	FMSM: a novel computational model for predicting potential miRNA biomarkers for various human diseases. BMC Systems Biology, 2018, 12, 121.	3.0	12

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55	Novel link prediction for large-scale miRNA-lncRNA interaction network in a bipartite graph. BMC Medical Genomics, 2018, 11, 113.	0.7	34
56	A Preliminary Study of Adaptive Indicator Based Evolutionary Algorithm for Dynamic Multiobjective Optimization via Autoencoding. , 2018, , .		1
57	Quantitative characterization of bovine serum albumin thin-films using terahertz spectroscopy and machine learning methods. Biomedical Optics Express, 2018, 9, 2917.	1.5	33
58	An enhanced artificial bee colony algorithm with adaptive differential operators. Applied Soft Computing Journal, 2017, 58, 480-494.	4.1	35
59	A Similarity-Based Multiobjective Evolutionary Algorithm for Deployment Optimization of Near Space Communication System. IEEE Transactions on Evolutionary Computation, 2017, 21, 878-897.	7.5	30
60	LRLSHMDA: Laplacian Regularized Least Squares for Human Microbe-Disease Association prediction. Scientific Reports, 2017, 7, 7601.	1.6	112
61	Multi-objective memetic algorithm based on request prediction for dynamic pickup-and-delivery problems. , 2017, , .		4
62	LW-FQZip 2: a parallelized reference-based compression of FASTQ files. BMC Bioinformatics, 2017, 18, 179.	1.2	25
63	Active module identification in intracellular networks using a memetic algorithm with a new binary decoding scheme. BMC Genomics, 2017, 18, 209.	1.2	7
64	G-FQZip: Lossless Reference-Based Compression of FASTQ Files Using GPUs. , 2017, , .		0
65	Evolutionary Multi-tasking Single-Objective Optimization Based on Cooperative Co-evolutionary Memetic Algorithm. , 2017, , .		13
66	PBHMDA: Path-Based Human Microbe-Disease Association Prediction. Frontiers in Microbiology, 2017, 8, 233.	1.5	97
67	Orderly Roulette Selection Based Ant Colony Algorithm for Hierarchical Multilabel Protein Function Prediction. Mathematical Problems in Engineering, 2017, 2017, 1-15.	0.6	3
68	Adaptive Memetic Algorithm Based Evolutionary Multi-tasking Single-Objective Optimization. Lecture Notes in Computer Science, 2017, , 462-472.	1.0	15
69	PBMDA: A novel and effective path-based computational model for miRNA-disease association prediction. PLoS Computational Biology, 2017, 13, e1005455.	1.5	387
70	Evolutionary multitasking in combinatorial search spaces: A case study in capacitated vehicle routing problem. , 2016, , .		22
71	A more efficient method for domain repeat detection in WD-40 proteins. , 2016, , .		0
72	A comparative study on decomposition-based multi-objective evolutionary algorithms for many-objective optimization. , 2016, , .		4

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73	Multi-objective memetic algorithm for solving pickup and delivery problem with dynamic customer requests and traffic information. , 2016, , .		6
74	Iterative ensemble feature selection for multiclass classification of imbalanced microarray data. Journal of Biological Research, 2016, 23, 13.	2.2	25
75	Metabolomics biomarker discovery using multimodal memetic algorithm and multivariate mutual information based feature selection. , 2016, , .		0
76	A novel adaptive hybrid crossover operator for multiobjective evolutionary algorithm. Information Sciences, 2016, 345, 177-198.	4.0	44
77	A multi-objective memetic algorithm based on locality-sensitive hashing for one-to-many-to-one dynamic pickup-and-delivery problem. Information Sciences, 2016, 329, 73-89.	4.0	66
78	Global path planning of wheeled robots using multi-objective memetic algorithms. Integrated Computer-Aided Engineering, 2015, 22, 387-404.	2.5	85
79	A Local Best Particle Swarm Optimization Based on Crown Jewel Defense Strategy. International Journal of Swarm Intelligence Research, 2015, 6, 41-63.	0.5	4
80	Light-weight reference-based compression of FASTQ data. BMC Bioinformatics, 2015, 16, 188.	1.2	33
81	Three-dimensional Gabor feature extraction for hyperspectral imagery classification using a memetic framework. Information Sciences, 2015, 298, 274-287.	4.0	98
82	High-throughput DNA sequence data compression. Briefings in Bioinformatics, 2015, 16, 1-15.	3.2	85
83	Global path planning of mobile robots using a memetic algorithm. International Journal of Systems Science, 2015, 46, 1982-1993.	3.7	31
84	CompMap: a reference-based compression program to speed up read mapping to related reference sequences. Bioinformatics, 2015, 31, 426-428.	1.8	17
85	Robust twin boosting for feature selection from high-dimensional omics data with label noise. Information Sciences, 2015, 291, 1-18.	4.0	32
86	DiME: A Scalable Disease Module Identification Algorithm with Application to Glioma Progression. PLoS ONE, 2014, 9, e86693.	1.1	22
87	Locality-sensitive hashing based multiobjective memetic algorithm for dynamic pickup and delivery problems. , 2014, , .		2
88	A Two-Stage Feature Selection Framework for Hyperspectral Image Classification Using Few Labeled Samples. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2014, 7, 1023-1035.	2.3	41
89	Using Chou's amphiphilic Pseudo-Amino Acid Composition and Extreme Learning Machine for prediction of Protein-protein interactions. , 2014, , .		5
90	Compression of next-generation sequencing quality scores using memetic algorithm. BMC Bioinformatics, 2014, 15, S10.	1.2	11

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91	Self-configuration single particle optimizer for DNA sequence compression. <i>Soft Computing</i> , 2013, 17, 675-682.	2.1	4
92	Discriminative Gabor Feature Selection for Hyperspectral Image Classification. <i>IEEE Geoscience and Remote Sensing Letters</i> , 2013, 10, 29-33.	1.4	68
93	Probing label free antibody interactions with HA protein using terahertz pulsed spectroscopy. , 2013, , .		0
94	Minimal-redundancy-maximal-relevance feature selection using different relevance measures for omics data classification. , 2013, , .		9
95	Memetic clustering based on particle swarm optimizer and K-means. , 2012, , .		5
96	A crown jewel defense strategy based particle swarm optimization. , 2012, , .		0
97	A memory binary particle swarm optimization. , 2012, , .		2
98	Survival analysis of gene expression data using PSO based radial basis function networks. , 2012, , .		1
99	PSO based memetic algorithm for face recognition Gabor filters selection. , 2011, , .		9
100	DNA Sequence Compression Using Adaptive Particle Swarm Optimization-Based Memetic Algorithm. <i>IEEE Transactions on Evolutionary Computation</i> , 2011, 15, 643-658.	7.5	103
101	Memetic figure selection for cluster expansion in binary alloy systems. , 2011, , .		0
102	Towards a Memetic Feature Selection Paradigm [Application Notes. <i>IEEE Computational Intelligence Magazine</i> , 2010, 5, 41-53.	3.4	67
103	Affinity propagation based memetic band selection on hyperspectral imagery datasets. , 2010, , .		3
104	Memetic Ant Colony Optimization for Band Selection of Hyperspectral Imagery Classification. , 2010, , .		7
105	Identification of Full and Partial Class Relevant Genes. <i>IEEE/ACM Transactions on Computational Biology and Bioinformatics</i> , 2010, 7, 263-277.	1.9	42
106	Feature Selection Technique for Hyperspectral Imagery Classification with Noise Reduction Preprocessing. , 2010, , .		0
107	Wrapper-Filter Feature Selection Algorithm Using a Memetic Framework. <i>IEEE Transactions on Systems, Man, and Cybernetics</i> , 2007, 37, 70-76.	5.5	353
108	Markov blanket-embedded genetic algorithm for gene selection. <i>Pattern Recognition</i> , 2007, 40, 3236-3248.	5.1	360