

Jun Sun

List of Publications by Year in descending order

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98
papers

3,734
citations

257450

24
h-index

197818

49
g-index

101
all docs

101
docs citations

101
times ranked

2466
citing authors

#	ARTICLE	IF	CITATIONS
1	Particle swarm optimization with particles having quantum behavior. , 0, , .		684
2	Quantum-Behaved Particle Swarm Optimization: Analysis of Individual Particle Behavior and Parameter Selection. Evolutionary Computation, 2012, 20, 349-393.	3.0	283
3	A global search strategy of quantum-behaved particle swarm optimization. , 0, , .		253
4	An improved quantum-behaved particle swarm optimization algorithm with weighted mean best position. Applied Mathematics and Computation, 2008, 205, 751-759.	2.2	224
5	Convergence analysis and improvements of quantum-behaved particle swarm optimization. Information Sciences, 2012, 193, 81-103.	6.9	172
6	Quantum-behaved particle swarm optimization with Gaussian distributed local attractor point. Applied Mathematics and Computation, 2011, 218, 3763-3775.	2.2	168
7	Solving the Power Economic Dispatch Problem With Generator Constraints by Random Drift Particle Swarm Optimization. IEEE Transactions on Industrial Informatics, 2014, 10, 222-232.	11.3	155
8	Adaptive Parameter Control for Quantum-behaved Particle Swarm Optimization on Individual Level. , 0, , .		134
9	An Effective Method of Weld Defect Detection and Classification Based on Machine Vision. IEEE Transactions on Industrial Informatics, 2019, 15, 6322-6333.	11.3	104
10	A Review of Quantum-behaved Particle Swarm Optimization. IETE Technical Review (Institution of) Tj ETQq0 0 0 rgBT/Overlock 10 Tf 50	3.2	103
11	Solving the economic dispatch problem with a modified quantum-behaved particle swarm optimization method. Energy Conversion and Management, 2009, 50, 2967-2975.	9.2	67
12	Gene expression data analysis with the clustering method based on an improved quantum-behaved Particle Swarm Optimization. Engineering Applications of Artificial Intelligence, 2012, 25, 376-391.	8.1	66
13	Random drift particle swarm optimization algorithm: convergence analysis and parameter selection. Machine Learning, 2015, 101, 345-376.	5.4	64
14	A decentralized quantum-inspired particle swarm optimization algorithm with cellular structured population. Information Sciences, 2016, 330, 19-48.	6.9	63
15	Cancer Feature Selection and Classification Using a Binary Quantum-Behaved Particle Swarm Optimization and Support Vector Machine. Computational and Mathematical Methods in Medicine, 2016, 2016, 1-9.	1.3	60
16	QoS multicast routing using a quantum-behaved particle swarm optimization algorithm. Engineering Applications of Artificial Intelligence, 2011, 24, 123-131.	8.1	53
17	A Quantum-Behaved Particle Swarm Optimization With Diversity-Guided Mutation for the Design of Two-Dimensional IIR Digital Filters. IEEE Transactions on Circuits and Systems II: Express Briefs, 2010, 57, 141-145.	3.0	51
18	A Truncated Matrix Decomposition for Hyperspectral Image Super-Resolution. IEEE Transactions on Image Processing, 2020, 29, 8028-8042.	9.8	51

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19	Multiple sequence alignment using the Hidden Markov Model trained by an improved quantum-behaved particle swarm optimization. <i>Information Sciences</i> , 2012, 182, 93-114.	6.9	49
20	Optimizing the codon usage of synthetic gene with QPSO algorithm. <i>Journal of Theoretical Biology</i> , 2008, 254, 123-127.	1.7	48
21	Parameter estimation for chaotic systems with a Drift Particle Swarm Optimization method. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2010, 374, 2816-2822.	2.1	47
22	A New Mutated Quantum-Behaved Particle Swarm Optimizer for Digital IIR Filter Design. <i>Eurasip Journal on Advances in Signal Processing</i> , 2010, 2009, .	1.7	46
23	Quantum-Behaved Particle Swarm Optimization with Adaptive Mutation Operator. <i>Lecture Notes in Computer Science</i> , 2006, , 959-967.	1.3	37
24	Using quantum-behaved particle swarm optimization algorithm to solve non-linear programming problems. <i>International Journal of Computer Mathematics</i> , 2007, 84, 261-272.	1.8	37
25	Culture conditions optimization of hyaluronic acid production by <i>Streptococcus zooepidemicus</i> based on radial basis function neural network and quantum-behaved particle swarm optimization algorithm. <i>Enzyme and Microbial Technology</i> , 2009, 44, 24-32.	3.2	32
26	A Diversity-Guided Quantum-Behaved Particle Swarm Optimization Algorithm. <i>Lecture Notes in Computer Science</i> , 2006, , 497-504.	1.3	31
27	Brain Tumor Classification Using a Combination of Variational Autoencoders and Generative Adversarial Networks. <i>Biomedicines</i> , 2022, 10, 223.	3.2	31
28	Improved Genetic Algorithm for High-Utility Itemset Mining. <i>IEEE Access</i> , 2019, 7, 176799-176813.	4.2	25
29	Modeling and optimization of microbial hyaluronic acid production by <i>Streptococcus zooepidemicus</i> using radial basis function neural network coupling quantum-behaved particle swarm optimization algorithm. <i>Biotechnology Progress</i> , 2009, 25, 1819-1825.	2.6	24
30	Comparative study on the influence of dissolved oxygen control approaches on the microbial hyaluronic acid production of <i>Streptococcus zooepidemicus</i> . <i>Bioprocess and Biosystems Engineering</i> , 2009, 32, 755-763.	3.4	23
31	Biochemical systems identification by a random drift particle swarm optimization approach. <i>BMC Bioinformatics</i> , 2014, 15, S1.	2.6	23
32	Quantum-Behaved Particle Swarm Optimization Algorithm with Controlled Diversity. <i>Lecture Notes in Computer Science</i> , 2006, , 847-854.	1.3	23
33	A Novel and More Efficient Search Strategy of Quantum-Behaved Particle Swarm Optimization. <i>Lecture Notes in Computer Science</i> , 2007, , 394-403.	1.3	23
34	A Multiobjective Evolutionary Algorithm Based on Coordinate Transformation. <i>IEEE Transactions on Cybernetics</i> , 2019, 49, 2732-2743.	9.5	21
35	An improved quantum-behaved particle swarm optimization and its application to medical image registration. <i>International Journal of Computer Mathematics</i> , 2011, 88, 1208-1223.	1.8	20
36	Multiple Sequence Alignment with Hidden Markov Models Learned by Random Drift Particle Swarm Optimization. <i>IEEE/ACM Transactions on Computational Biology and Bioinformatics</i> , 2014, 11, 243-257.	3.0	20

#	ARTICLE	IF	CITATIONS
37	An opposition-based learning competitive particle swarm optimizer. , 2016, , .		20
38	Solving the multi-stage portfolio optimization problem with a novel particle swarm optimization. Expert Systems With Applications, 2011, 38, 6727-6735.	7.6	18
39	Hierarchical Clustering Based Band Selection Algorithm for Hyperspectral Face Recognition. IEEE Access, 2019, 7, 24333-24342.	4.2	15
40	Quantum-Behaved Particle Swarm Optimization with a Hybrid Probability Distribution. Lecture Notes in Computer Science, 2006, , 737-746.	1.3	15
41	Quantum-Behaved Particle Swarm Optimization Clustering Algorithm. Lecture Notes in Computer Science, 2006, , 340-347.	1.3	14
42	Influence of culture modes on the microbial production of hyaluronic acid by Streptococcus zooepidemicus. Biotechnology and Bioprocess Engineering, 2008, 13, 269-273.	2.6	14
43	ANALYSIS OF MUTATION OPERATORS ON QUANTUM-BEHAVED PARTICLE SWARM OPTIMIZATION ALGORITHM. New Mathematics and Natural Computation, 2009, 05, 487-496.	0.7	14
44	Gene duplication in the genome of parasitic Giardia lamblia. BMC Evolutionary Biology, 2010, 10, 49.	3.2	14
45	An improved quantum-behaved particle swarm optimization with perturbation operator and its application in estimating groundwater contaminant source. Inverse Problems in Science and Engineering, 2011, 19, 181-202.	1.2	14
46	Patch-Aware Deep Hyperspectral and Multispectral Image Fusion by Unfolding Subspace-Based Optimization Model. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2022, 15, 1024-1038.	4.9	14
47	Adaptive Web QoS controller based on online system identification using quantum-behaved particle swarm optimization. Soft Computing, 2015, 19, 1715-1725.	3.6	13
48	Calibrating RZWQM2 model using quantum-behaved particle swarm optimization algorithm. Computers and Electronics in Agriculture, 2015, 113, 72-80.	7.7	13
49	Distributed Contribution-Based Quantum-Behaved Particle Swarm Optimization With Controlled Diversity for Large-Scale Global Optimization Problems. IEEE Access, 2019, 7, 150093-150104.	4.2	12
50	Multiplication fusion of sparse and collaborative-competitive representation for image classification. International Journal of Machine Learning and Cybernetics, 2020, 11, 2357-2369.	3.6	12
51	Graph-structured multitask sparsity model for visual tracking. Information Sciences, 2019, 486, 133-147.	6.9	11
52	Improved quantum-behaved particle swarm optimization with local search strategy. Journal of Algorithms and Computational Technology, 2017, 11, 3-12.	0.7	10
53	A Novel Geometric Mean Feature Space Discriminant Analysis Method for Hyperspectral Image Feature Extraction. Neural Processing Letters, 2020, 51, 515-542.	3.2	10
54	Mining High Quality Patterns Using Multi-Objective Evolutionary Algorithm. IEEE Transactions on Knowledge and Data Engineering, 2022, 34, 3883-3898.	5.7	10

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55	Quantum-Behaved Particle Swarm Optimization with Novel Adaptive Strategies. Journal of Algorithms and Computational Technology, 2015, 9, 143-161.	0.7	9
56	DMO-QPSO: A Multi-Objective Quantum-Behaved Particle Swarm Optimization Algorithm Based on Decomposition with Diversity Control. Mathematics, 2021, 9, 1959.	2.2	9
57	Application of a novel cavern volume controlled culture model to microbial hyaluronic acid production by batch culture of Streptococcus zooepidemicus. Biochemical Engineering Journal, 2010, 48, 141-147.	3.6	8
58	An improved Gaussian distribution based quantum-behaved particle swarm optimization algorithm for engineering shape design problems. Engineering Optimization, 0, , 1-27.	2.6	8
59	Characterization of three extracellular polysaccharides from Shiraia sp. Super-H168 under submerged fermentation. Carbohydrate Polymers, 2010, 82, 34-38.	10.2	7
60	Re-scheduling in railway networks. , 2013, , .		7
61	Solving Power Economic Dispatch Problem with a Novel Quantum-Behaved Particle Swarm Optimization Algorithm. Mathematical Problems in Engineering, 2020, 2020, 1-11.	1.1	7
62	Using selection to improve quantum-behaved particle swarm optimisation. International Journal of Innovative Computing and Applications, 2009, 2, 100.	0.2	6
63	Modeling and optimization of cutinase production by recombinant Escherichia coli based on statistical experimental designs. Korean Journal of Chemical Engineering, 2010, 27, 1233-1238.	2.7	6
64	A novel quantum-behaved particle swarm optimization with random selection for large scale optimization. , 2017, , .		6
65	Random drift particle swarm optimisation algorithm for highly flexible protein-ligand docking. Journal of Theoretical Biology, 2018, 457, 180-189.	1.7	6
66	An improved quantum-behaved particle swarm optimization for multi-peak optimization problems. International Journal of Computer Mathematics, 2011, 88, 517-532.	1.8	5
67	Evolutionary sampling: A novel way of machine learning within a probabilistic framework. Information Sciences, 2015, 299, 262-282.	6.9	5
68	Diversity-guided Lamarckian random drift particle swarm optimization for flexible ligand docking. BMC Bioinformatics, 2020, 21, 286.	2.6	5
69	A New Approach for Flexible Molecular Docking Based on Swarm Intelligence. Mathematical Problems in Engineering, 2015, 2015, 1-10.	1.1	4
70	Construction and Optimization of Fuzzy Rule-Based Classifier with a Swarm Intelligent Algorithm. Mathematical Problems in Engineering, 2020, 2020, 1-12.	1.1	4
71	SSD small object detection algorithm based on feature enhancement and sample selection. , 2021, , .		4
72	Multilabel Text Classification Algorithm Based on Fusion of Two-Stream Transformer. Electronics (Switzerland), 2022, 11, 2138.	3.1	4

#	ARTICLE	IF	CITATIONS
73	A Modified Binary Quantum-Behaved Particle Swarm Optimization Algorithm with Bit Crossover Operator. <i>Advanced Materials Research</i> , 0, 591-593, 1376-1380.	0.3	3
74	A Mixed Localization Algorithm Based on RSSI and APIT with Fitness Analysis and Optimization. , 2012, , .		3
75	An Effective Swarm Intelligence Optimization Algorithm for Flexible Ligand Docking. <i>IEEE/ACM Transactions on Computational Biology and Bioinformatics</i> , 2022, 19, 2672-2684.	3.0	3
76	MSLDOCK: Multi-Swarm Optimization for Flexible Ligand Docking and Virtual Screening. <i>Journal of Chemical Information and Modeling</i> , 2021, 61, 1500-1515.	5.4	3
77	A Novel Architecture with Separate Comparison and Interaction Modules for Chinese Semantic Sentence Matching. <i>Neural Processing Letters</i> , 2021, 53, 3677-3692.	3.2	3
78	SSRFD: single shot real-time face detector. <i>Applied Intelligence</i> , 2022, 52, 11916-11927.	5.3	3
79	A Novel Deep Learning Architecture with Multi-Scale Guided Learning for Image Splicing Localization. <i>Electronics (Switzerland)</i> , 2022, 11, 1607.	3.1	3
80	Quantum-Behaved Particle Swarm Optimization Using Q-Learning. <i>Applied Mechanics and Materials</i> , 0, 556-562, 3965-3971.	0.2	2
81	RDPSOVina: the random drift particle swarm optimization for proteinâ€™ligand docking. <i>Journal of Computer-Aided Molecular Design</i> , 2022, 36, 415-425.	2.9	2
82	Multi-objective random drift particle swarm optimization algorithm with adaptive grids. , 2016, , .		1
83	Discriminative non-negative representation based classifier for image recognition. <i>Journal of Algorithms and Computational Technology</i> , 2021, 15, 174830262110449.	0.7	1
84	Diversity collaboratively guided random drift particle swarm optimization. <i>International Journal of Machine Learning and Cybernetics</i> , 2021, 12, 2617-2638.	3.6	1
85	Tracking Multiple Optima in Dynamic Environments by Quantum-Behavior Particle Swarm Using Speciation. <i>International Journal of Swarm Intelligence Research</i> , 2012, 3, 55-76.	0.7	1
86	Study on the compression-expansion coefficient in drift particle swarm optimization. , 2012, , .		0
87	Collaborative diversity control strategy for random drift particle swarm optimization. , 2019, , .		0
88	A hybrid framework for brain tissue segmentation in magnetic resonance images. <i>International Journal of Imaging Systems and Technology</i> , 2021, 31, 2305-2321.	4.1	0
89	Hybrid Approach of Genetic Programming and Quantum-Behaved Particle Swarm Optimization for Modeling and Optimization of Fermentation Processes. <i>Smart Innovation, Systems and Technologies</i> , 2013, , 117-136.	0.6	0
90	An advanced particle swarm optimization with Gaussian distribution operators. , 2013, , .		0

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91	A Discrete Random Drift Particle Swarm Optimization with Modularity in Community Detection. , 2020, , .		0
92	Crossover Operation of Random Drift Particle Swarm Optimization. , 2020, , .		0
93	A hybrid ARIMA-ANN model for Internet Food safety risks. , 2021, , .		0
94	Research on Smart Home Security Threat Modeling based on STRIDE-IAHP-BN. , 2021, , .		0
95	Multiscale Global Channel Network for Edge Detection. , 2021, , .		0
96	An effective lightweight attention mechanism. , 2021, , .		0
97	Weakly-supervised object localization with gradient-pyramid feature. Applied Intelligence, 0, , 1.	5.3	0
98	Parallel multi-swarm cooperative particle swarm optimization for proteinâ€“ligand docking and virtual screening. BMC Bioinformatics, 2022, 23, .	2.6	0