

# Mengjie Zhang

## List of Publications by Year in descending order

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509  
papers

16,169  
citations

36203

51  
h-index

28224

105  
g-index

516  
all docs

516  
docs citations

516  
times ranked

7299  
citing authors

#	ARTICLE	IF	CITATIONS
1	A Survey on Evolutionary Computation Approaches to Feature Selection. IEEE Transactions on Evolutionary Computation, 2016, 20, 606-626.	7.5	1,225
2	Particle Swarm Optimization for Feature Selection in Classification: A Multi-Objective Approach. IEEE Transactions on Cybernetics, 2013, 43, 1656-1671.	6.2	1,003
3	Automatically Designing CNN Architectures Using the Genetic Algorithm for Image Classification. IEEE Transactions on Cybernetics, 2020, 50, 3840-3854.	6.2	473
4	Particle swarm optimisation for feature selection in classification: Novel initialisation and updating mechanisms. Applied Soft Computing Journal, 2014, 18, 261-276.	4.1	465
5	Deep Reconstruction-Classification Networks for Unsupervised Domain Adaptation. Lecture Notes in Computer Science, 2016, , 597-613.	1.0	413
6	Evolving Deep Convolutional Neural Networks for Image Classification. IEEE Transactions on Evolutionary Computation, 2020, 24, 394-407.	7.5	409
7	Domain Generalization for Object Recognition with Multi-task Autoencoders. , 2015, , .		323
8	Automated Design of Production Scheduling Heuristics: A Review. IEEE Transactions on Evolutionary Computation, 2016, 20, 110-124.	7.5	316
9	Differential evolution for filter feature selection based on information theory and feature ranking. Knowledge-Based Systems, 2018, 140, 103-119.	4.0	280
10	Pareto front feature selection based on artificial bee colony optimization. Information Sciences, 2018, 422, 462-479.	4.0	240
11	A survey on swarm intelligence approaches to feature selection in data mining. Swarm and Evolutionary Computation, 2020, 54, 100663.	4.5	227
12	Domain Adaptive Neural Networks for Object Recognition. Lecture Notes in Computer Science, 2014, , 898-904.	1.0	224
13	Automatic Design of Scheduling Policies for Dynamic Multi-objective Job Shop Scheduling via Cooperative Coevolution Genetic Programming. IEEE Transactions on Evolutionary Computation, 2014, 18, 193-208.	7.5	202
14	Completely Automated CNN Architecture Design Based on Blocks. IEEE Transactions on Neural Networks and Learning Systems, 2020, 31, 1242-1254.	7.2	188
15	Evolving Diverse Ensembles Using Genetic Programming for Classification With Unbalanced Data. IEEE Transactions on Evolutionary Computation, 2013, 17, 368-386.	7.5	186
16	Genetic programming for production scheduling: a survey with a unified framework. Complex & Intelligent Systems, 2017, 3, 41-66.	4.0	183
17	A Computational Study of Representations in Genetic Programming to Evolve Dispatching Rules for the Job Shop Scheduling Problem. IEEE Transactions on Evolutionary Computation, 2013, 17, 621-639.	7.5	180
18	Variable-Length Particle Swarm Optimization for Feature Selection on High-Dimensional Classification. IEEE Transactions on Evolutionary Computation, 2019, 23, 473-487.	7.5	177

#	ARTICLE	IF	CITATIONS
19	A survey on evolutionary machine learning. Journal of the Royal Society of New Zealand, 2019, 49, 205-228.	1.0	159
20	Surrogate-Assisted Evolutionary Deep Learning Using an End-to-End Random Forest-Based Performance Predictor. IEEE Transactions on Evolutionary Computation, 2020, 24, 350-364.	7.5	150
21	Automatic Programming via Iterated Local Search for Dynamic Job Shop Scheduling. IEEE Transactions on Cybernetics, 2015, 45, 1-14.	6.2	148
22	A Survey on Evolutionary Neural Architecture Search. IEEE Transactions on Neural Networks and Learning Systems, 2023, 34, 550-570.	7.2	139
23	A binary ABC algorithm based on advanced similarity scheme for feature selection. Applied Soft Computing Journal, 2015, 36, 334-348.	4.1	137
24	Genetic programming for feature construction and selection in classification on high-dimensional data. Memetic Computing, 2016, 8, 3-15.	2.7	135
25	A New Representation in PSO for Discretization-Based Feature Selection. IEEE Transactions on Cybernetics, 2018, 48, 1733-1746.	6.2	134
26	Evolving Scheduling Heuristics via Genetic Programming With Feature Selection in Dynamic Flexible Job-Shop Scheduling. IEEE Transactions on Cybernetics, 2021, 51, 1797-1811.	6.2	120
27	A Filter Approach to Multiple Feature Construction for Symbolic Learning Classifiers Using Genetic Programming. IEEE Transactions on Evolutionary Computation, 2012, 16, 645-661.	7.5	116
28	Reusing Building Blocks of Extracted Knowledge to Solve Complex, Large-Scale Boolean Problems. IEEE Transactions on Evolutionary Computation, 2014, 18, 465-480.	7.5	113
29	A Particle Swarm Optimization-Based Flexible Convolutional Autoencoder for Image Classification. IEEE Transactions on Neural Networks and Learning Systems, 2019, 30, 2295-2309.	7.2	107
30	A survey on feature selection approaches for clustering. Artificial Intelligence Review, 2020, 53, 4519-4545.	9.7	103
31	Binary particle swarm optimisation for feature selection: A filter based approach. , 2012, , ,		99
32	Surrogate-Assisted Evolutionary Multitask Genetic Programming for Dynamic Flexible Job Shop Scheduling. IEEE Transactions on Evolutionary Computation, 2021, 25, 651-665.	7.5	99
33	Feature Selection to Improve Generalization of Genetic Programming for High-Dimensional Symbolic Regression. IEEE Transactions on Evolutionary Computation, 2017, 21, 792-806.	7.5	97
34	A Domain-Independent Window Approach to Multiclass Object Detection Using Genetic Programming. Eurasip Journal on Advances in Signal Processing, 2003, 2003, 1.	1.0	96
35	Developing New Fitness Functions in Genetic Programming for Classification With Unbalanced Data. IEEE Transactions on Systems, Man, and Cybernetics, 2012, 42, 406-421.	5.5	96
36	Surrogate-Assisted Genetic Programming With Simplified Models for Automated Design of Dispatching Rules. IEEE Transactions on Cybernetics, 2017, 47, 2951-2965.	6.2	93

#	ARTICLE	IF	CITATIONS
37	Improved binary particle swarm optimization for feature selection with new initialization and search space reduction strategies. Applied Soft Computing Journal, 2021, 106, 107302.	4.1	92
38	A New Two-Stage Evolutionary Algorithm for Many-Objective Optimization. IEEE Transactions on Evolutionary Computation, 2019, 23, 748-761.	7.5	90
39	A multi-objective particle swarm optimisation for filter-based feature selection in classification problems. Connection Science, 2012, 24, 91-116.	1.8	89
40	Cross-Domain Reuse of Extracted Knowledge in Genetic Programming for Image Classification. IEEE Transactions on Evolutionary Computation, 2017, 21, 569-587.	7.5	86
41	An investigation of ensemble combination schemes for genetic programming based hyper-heuristic approaches to dynamic job shop scheduling. Applied Soft Computing Journal, 2018, 63, 72-86.	4.1	83
42	Reusing Genetic Programming for Ensemble Selection in Classification of Unbalanced Data. IEEE Transactions on Evolutionary Computation, 2014, 18, 893-908.	7.5	76
43	An Efficient Feature Selection Algorithm for Evolving Job Shop Scheduling Rules With Genetic Programming. IEEE Transactions on Emerging Topics in Computational Intelligence, 2017, 1, 339-353.	3.4	73
44	A New Binary Particle Swarm Optimization Approach: Momentum and Dynamic Balance Between Exploration and Exploitation. IEEE Transactions on Cybernetics, 2021, 51, 589-603.	6.2	69
45	Using Gaussian distribution to construct fitness functions in genetic programming for multiclass object classification. Pattern Recognition Letters, 2006, 27, 1266-1274.	2.6	68
46	Multiple Reference Points-Based Decomposition for Multiobjective Feature Selection in Classification: Static and Dynamic Mechanisms. IEEE Transactions on Evolutionary Computation, 2020, 24, 170-184.	7.5	68
47	Two-Tier genetic programming: towards raw pixel-based image classification. Expert Systems With Applications, 2012, 39, 12291-12301.	4.4	64
48	Multi-objective particle swarm optimisation (PSO) for feature selection. , 2012, , .		62
49	A Duplication Analysis-Based Evolutionary Algorithm for Biobjective Feature Selection. IEEE Transactions on Evolutionary Computation, 2021, 25, 205-218.	7.5	62
50	Genetic programming for multiple-feature construction on high-dimensional classification. Pattern Recognition, 2019, 93, 404-417.	5.1	59
51	Keypoints Detection and Feature Extraction: A Dynamic Genetic Programming Approach for Evolving Rotation-Invariant Texture Image Descriptors. IEEE Transactions on Evolutionary Computation, 2017, 21, 825-844.	7.5	56
52	Multiobjective Multitasking Optimization Based on Incremental Learning. IEEE Transactions on Evolutionary Computation, 2020, 24, 824-838.	7.5	55
53	Learning iterative dispatching rules for job shop scheduling with genetic programming. International Journal of Advanced Manufacturing Technology, 2013, 67, 85-100.	1.5	54
54	An Evolutionary Multitasking-Based Feature Selection Method for High-Dimensional Classification. IEEE Transactions on Cybernetics, 2022, 52, 7172-7186.	6.2	54

#	ARTICLE	IF	CITATIONS
55	A Comprehensive Comparison on Evolutionary Feature Selection Approaches to Classification. International Journal of Computational Intelligence and Applications, 2015, 14, 1550008.	0.6	53
56	A Bilevel Ant Colony Optimization Algorithm for Capacitated Electric Vehicle Routing Problem. IEEE Transactions on Cybernetics, 2022, 52, 10855-10868.	6.2	53
57	Evolutionary Multitasking for Feature Selection in High-Dimensional Classification via Particle Swarm Optimization. IEEE Transactions on Evolutionary Computation, 2022, 26, 446-460.	7.5	52
58	A Hybrid Genetic Programming Algorithm for Automated Design of Dispatching Rules. Evolutionary Computation, 2019, 27, 467-496.	2.3	50
59	Multi-objective feature selection using hybridization of a genetic algorithm and direct multisearch for key quality characteristic selection. Information Sciences, 2020, 523, 245-265.	4.0	48
60	Fitness Functions in Genetic Programming for Classification with Unbalanced Data. , 2007, , 769-775.		47
61	A domain independent Genetic Programming approach to automatic feature extraction for image classification. , 2011, , .		47
62	Automated heuristic design using genetic programming hyper-heuristic for uncertain capacitated arc routing problem. , 2017, , .		47
63	BINARY PSO AND ROUGH SET THEORY FOR FEATURE SELECTION: A MULTI-OBJECTIVE FILTER BASED APPROACH. International Journal of Computational Intelligence and Applications, 2014, 13, 1450009.	0.6	46
64	Low-Level Feature Extraction for Edge Detection Using Genetic Programming. IEEE Transactions on Cybernetics, 2014, 44, 1459-1472.	6.2	45
65	Genetic Programming With Image-Related Operators and a Flexible Program Structure for Feature Learning in Image Classification. IEEE Transactions on Evolutionary Computation, 2021, 25, 87-101.	7.5	45
66	A two-stage genetic programming hyper-heuristic approach with feature selection for dynamic flexible job shop scheduling. , 2019, , .		44
67	Genetic Programming With a New Representation to Automatically Learn Features and Evolve Ensembles for Image Classification. IEEE Transactions on Cybernetics, 2021, 51, 1769-1783.	6.2	44
68	Dynamic Multi-objective Job Shop Scheduling: A Genetic Programming Approach. Studies in Computational Intelligence, 2013, , 251-282.	0.7	44
69	Evolutionary Neural Architecture Search for High-Dimensional Skip-Connection Structures on DenseNet Style Networks. IEEE Transactions on Evolutionary Computation, 2021, 25, 1118-1132.	7.5	43
70	Correlation Coefficient-Based Recombinative Guidance for Genetic Programming Hyperheuristics in Dynamic Flexible Job Shop Scheduling. IEEE Transactions on Evolutionary Computation, 2021, 25, 552-566.	7.5	43
71	Parent Selection Pressure Auto-Tuning for Tournament Selection in Genetic Programming. IEEE Transactions on Evolutionary Computation, 2013, 17, 1-19.	7.5	42
72	A multi-objective artificial bee colony approach to feature selection using fuzzy mutual information. , 2015, , .		42

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73	New mechanism for archive maintenance in PSO-based multi-objective feature selection. <i>Soft Computing</i> , 2016, 20, 3927-3946.	2.1	42
74	Automatic Feature Extraction and Construction Using Genetic Programming for Rotating Machinery Fault Diagnosis. <i>IEEE Transactions on Cybernetics</i> , 2021, 51, 4909-4923.	6.2	42
75	Evolving Dispatching Rules for Multi-objective Dynamic Flexible Job Shop Scheduling via Genetic Programming Hyper-heuristics. , 2019, , .		41
76	Hybrid evolutionary computation methods for quay crane scheduling problems. <i>Computers and Operations Research</i> , 2013, 40, 2083-2093.	2.4	40
77	A New Crossover Operator in Genetic Programming for Object Classification. <i>IEEE Transactions on Systems, Man, and Cybernetics</i> , 2007, 37, 1332-1343.	5.5	37
78	Particle Swarm Optimization based Adaboost for face detection. , 2009, , .		37
79	Filter based backward elimination in wrapper based PSO for feature selection in classification. , 2014, , .		37
80	Many-objective genetic programming for job-shop scheduling. , 2016, , .		37
81	Evolving heuristics for Dynamic Vehicle Routing with Time Windows using genetic programming. , 2017, , .		37
82	A performance study on synchronicity and neighborhood size in particle swarm optimization. <i>Soft Computing</i> , 2013, 17, 1019-1030.	2.1	36
83	Multi-objective Feature Selection in Classification: A Differential Evolution Approach. <i>Lecture Notes in Computer Science</i> , 2014, , 516-528.	1.0	36
84	A PSO based hybrid feature selection algorithm for high-dimensional classification. , 2016, , .		35
85	Investigation on particle swarm optimisation for feature selection on high-dimensional data: local search and selection bias. <i>Connection Science</i> , 2016, 28, 270-294.	1.8	35
86	Multitask Genetic Programming-Based Generative Hyperheuristics: A Case Study in Dynamic Scheduling. <i>IEEE Transactions on Cybernetics</i> , 2022, 52, 10515-10528.	6.2	35
87	Multiple feature construction for effective biomarker identification and classification using genetic programming. , 2014, , .		34
88	Population statistics for particle swarm optimization: Resampling methods in noisy optimization problems. <i>Swarm and Evolutionary Computation</i> , 2014, 17, 37-59.	4.5	34
89	Genetic Programming for Region Detection, Feature Extraction, Feature Construction and Classification in Image Data. <i>Lecture Notes in Computer Science</i> , 2016, , 51-67.	1.0	34
90	An Effective Feature Learning Approach Using Genetic Programming With Image Descriptors for Image Classification [Research Frontier]. <i>IEEE Computational Intelligence Magazine</i> , 2020, 15, 65-77.	3.4	34

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91	Algebraic simplification of GP programs during evolution. , 2006, , .		33
92	Improving Generalization of Genetic Programming for Symbolic Regression With Angle-Driven Geometric Semantic Operators. IEEE Transactions on Evolutionary Computation, 2019, 23, 488-502.	7.5	33
93	Genetic Programming Hyper-Heuristics with Vehicle Collaboration for Uncertain Capacitated Arc Routing Problems. Evolutionary Computation, 2020, 28, 563-593.	2.3	33
94	Evolutionary Multi-Objective Optimization for Web Service Location Allocation Problem. IEEE Transactions on Services Computing, 2021, 14, 458-471.	3.2	33
95	Genetic Programming for Evolving Due-Date Assignment Models in Job Shop Environments. Evolutionary Computation, 2014, 22, 105-138.	2.3	32
96	Feature Selection in Evolving Job Shop Dispatching Rules with Genetic Programming. , 2016, , .		32
97	A Divide-and-Conquer-Based Ensemble Classifier Learning by Means of Many-Objective Optimization. IEEE Transactions on Evolutionary Computation, 2018, 22, 762-777.	7.5	32
98	An Experimental Study on Hyper-parameter Optimization for Stacked Auto-Encoders. , 2018, , .		32
99	A Predictive-Reactive Approach with Genetic Programming and Cooperative Coevolution for the Uncertain Capacitated Arc Routing Problem. Evolutionary Computation, 2020, 28, 289-316.	2.3	32
100	Genetic programming for medical classification: a program simplification approach. Genetic Programming and Evolvable Machines, 2008, 9, 229-255.	1.5	31
101	Numerical simplification for bloat control and analysis of building blocks in genetic programming. Evolutionary Intelligence, 2009, 2, 151-168.	2.3	31
102	Enhanced feature selection for biomarker discovery in LC-MS data using GP. , 2013, , .		31
103	Particle swarm optimisation for feature selection: A hybrid filter-wrapper approach. , 2015, , .		31
104	Common subtrees in related problems: A novel transfer learning approach for genetic programming. , 2017, , .		31
105	Improving performance of classification on incomplete data using feature selection and clustering. Applied Soft Computing Journal, 2018, 73, 848-861.	4.1	31
106	A new imputation method based on genetic programming and weighted KNN for symbolic regression with incomplete data. Soft Computing, 2021, 25, 5993-6012.	2.1	31
107	Evolving "less-myopic" scheduling rules for dynamic job shop scheduling with genetic programming. , 2014, , .		30
108	Image descriptor: A genetic programming approach to multiclass texture classification. , 2015, , .		30

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109	Evolutionary Deep Learning: A Genetic Programming Approach to Image Classification. , 2018, , .		30
110	Novel ensemble genetic programming hyper-heuristics for uncertain capacitated arc routing problem. , 2019, , .		30
111	Evolving Ensembles of Dispatching Rules Using Genetic Programming for Job Shop Scheduling. Lecture Notes in Computer Science, 2015, , 92-104.	1.0	30
112	Correlation-Guided Updating Strategy for Feature Selection in Classification With Surrogate-Assisted Particle Swarm Optimization. IEEE Transactions on Evolutionary Computation, 2022, 26, 1015-1029.	7.5	30
113	Genetic Programming for Classification with Unbalanced Data. Lecture Notes in Computer Science, 2010, , 1-13.	1.0	29
114	Evolving optimum populations with XCS classifier systems. Soft Computing, 2013, 17, 503-518.	2.1	29
115	Genetic programming for QoS-aware web service composition and selection. Soft Computing, 2016, 20, 3851-3867.	2.1	29
116	Genetic Programming for Feature Subset Ranking in Binary Classification Problems. Lecture Notes in Computer Science, 2009, , 121-132.	1.0	29
117	Genetic programming hyper-heuristic for multi-vehicle uncertain capacitated arc routing problem. , 2018, , .		28
118	Genetic Programming with Multi-tree Representation for Dynamic Flexible Job Shop Scheduling. Lecture Notes in Computer Science, 2018, , 472-484.	1.0	28
119	Improved PSO for Feature Selection on High-Dimensional Datasets. Lecture Notes in Computer Science, 2014, , 503-515.	1.0	28
120	Extending learning classifier system with cyclic graphs for scalability on complex, large-scale boolean problems. , 2013, , .		27
121	Generating Knowledge-Guided Discriminative Features Using Genetic Programming for Melanoma Detection. IEEE Transactions on Emerging Topics in Computational Intelligence, 2021, 5, 554-569.	3.4	27
122	Collaborative Multifidelity-Based Surrogate Models for Genetic Programming in Dynamic Flexible Job Shop Scheduling. IEEE Transactions on Cybernetics, 2022, 52, 8142-8156.	6.2	27
123	Gaussian Based Particle Swarm Optimisation and Statistical Clustering for Feature Selection. Lecture Notes in Computer Science, 2014, , 133-144.	1.0	26
124	Structural Risk Minimization-Driven Genetic Programming for Enhancing Generalization in Symbolic Regression. IEEE Transactions on Evolutionary Computation, 2019, 23, 703-717.	7.5	26
125	Particle Swarm optimisation for Evolving Deep Neural Networks for Image Classification by Evolving and Stacking Transferable Blocks. , 2020, , .		26
126	Genetic Programming for Evolving a Front of Interpretable Models for Data Visualization. IEEE Transactions on Cybernetics, 2021, 51, 5468-5482.	6.2	26

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127	Extracting and using building blocks of knowledge in learning classifier systems. , 2012, , .		25
128	A Genetic Programming approach to distributed QoS-aware web service composition. , 2014, , .		25
129	Automatically Evolving Rotation-invariant Texture Image Descriptors by Genetic Programming. IEEE Transactions on Evolutionary Computation, 2016, , 1-1.	7.5	25
130	Genetic Programming Hyper-Heuristic with Cooperative Coevolution for Dynamic Flexible Job Shop Scheduling. Lecture Notes in Computer Science, 2018, , 306-321.	1.0	25
131	Surrogate-Assisted Particle Swarm Optimization for Evolving Variable-Length Transferable Blocks for Image Classification. IEEE Transactions on Neural Networks and Learning Systems, 2022, 33, 3727-3740.	7.2	25
132	Further investigation on genetic programming with transfer learning for symbolic regression. , 2016, , .		25
133	Generalisation and domain adaptation in GP with gradient descent for symbolic regression. , 2015, , .		24
134	Image feature selection using genetic programming for figure-ground segmentation. Engineering Applications of Artificial Intelligence, 2017, 62, 96-108.	4.3	24
135	An effective and efficient approach to classification with incomplete data. Knowledge-Based Systems, 2018, 154, 1-16.	4.0	24
136	Genetic programming hyper-heuristic with knowledge transfer for uncertain capacitated arc routing problem. , 2019, , .		24
137	Novel chaotic grouping particle swarm optimization with a dynamic regrouping strategy for solving numerical optimization tasks. Knowledge-Based Systems, 2020, 194, 105568.	4.0	24
138	An Automatic Feature Extraction Approach to Image Classification Using Genetic Programming. Lecture Notes in Computer Science, 2018, , 421-438.	1.0	24
139	A new homogeneity-based approach to edge detection using PSO. , 2009, , .		23
140	Using genetic programming for context-sensitive feature scoring in classification problems. Connection Science, 2011, 23, 183-207.	1.8	23
141	Extracting image features for classification by two-tier genetic programming. , 2012, , .		23
142	Improving feature ranking for biomarker discovery in proteomics mass spectrometry data using genetic programming. Connection Science, 2014, 26, 215-243.	1.8	23
143	Learning feature fusion strategies for various image types to detect salient objects. Pattern Recognition, 2016, 60, 106-120.	5.1	23
144	Improving Generalisation of Genetic Programming for Symbolic Regression with Structural Risk Minimisation. , 2016, , .		23

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145	Improving performance for classification with incomplete data using wrapper-based feature selection. <i>Evolutionary Intelligence</i> , 2016, 9, 81-94.	2.3	23
146	Particle Swarm Optimisation with genetic operators for feature selection. , 2017, , .		23
147	A Cooperative Coevolution Genetic Programming Hyper-Heuristics Approach for On-Line Resource Allocation in Container-Based Clouds. <i>IEEE Transactions on Cloud Computing</i> , 2022, 10, 1500-1514.	3.1	23
148	Genetic Programming for Image Classification. <i>Adaptation, Learning, and Optimization</i> , 2021, , .	0.5	23
149	Dimensionality reduction in face detection: A genetic programming approach. , 2009, , .		22
150	A genetic programming based hyper-heuristic approach for combinatorial optimisation. , 2011, , .		22
151	Multiple Imputation for Missing Data Using Genetic Programming. , 2015, , .		22
152	Evolutionary computation for automatic Web service composition: an indirect representation approach. <i>Journal of Heuristics</i> , 2018, 24, 425-456.	1.1	22
153	Genetic Programming with Delayed Routing for Multiobjective Dynamic Flexible Job Shop Scheduling. <i>Evolutionary Computation</i> , 2021, 29, 75-105.	2.3	22
154	GraphEvol: A Graph Evolution Technique for Web Service Composition. <i>Lecture Notes in Computer Science</i> , 2015, , 134-142.	1.0	22
155	Multi-objective genetic programming for feature learning in face recognition. <i>Applied Soft Computing Journal</i> , 2021, 103, 107152.	4.1	21
156	XCSR with Computed Continuous Action. <i>Lecture Notes in Computer Science</i> , 2012, , 350-361.	1.0	21
157	A preliminary approach to evolutionary multitasking for dynamic flexible job shop scheduling via genetic programming. , 2020, , .		21
158	Random Asynchronous PSO. , 2011, , .		20
159	Meta-learning and feature ranking using genetic programming for classification: Variable terminal weighting. , 2011, , .		20
160	Evolving ensembles in multi-objective genetic programming for classification with unbalanced data. , 2011, , .		20
161	A performance study on synchronous and asynchronous updates in particle swarm optimization. , 2011, , .		20
162	An automated ensemble learning framework using genetic programming for image classification. , 2019, , .		20

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163	Resampling in Particle Swarm Optimization. , 2013, , .		19
164	Particle Swarm Optimisation and Statistical Clustering for Feature Selection. Lecture Notes in Computer Science, 2013, , 214-220.	1.0	19
165	Enhancing genetic programming based hyper-heuristics for dynamic multi-objective job shop scheduling problems. , 2015, , .		19
166	A Hybrid GP-KNN Imputation for Symbolic Regression with Missing Values. Lecture Notes in Computer Science, 2018, , 345-357.	1.0	19
167	Transfer Learning in Genetic Programming Hyper-heuristic for Solving Uncertain Capacitated Arc Routing Problem. , 2019, , .		19
168	People-Centric Evolutionary System for Dynamic Production Scheduling. IEEE Transactions on Cybernetics, 2021, 51, 1403-1416.	6.2	19
169	A graph-based Particle Swarm Optimisation approach to QoS-aware web service composition and selection. , 2014, , .		18
170	PSO and Statistical Clustering for Feature Selection: A New Representation. Lecture Notes in Computer Science, 2014, , 569-581.	1.0	18
171	A Genetic Programming-Based Imputation Method for Classification with Missing Data. Lecture Notes in Computer Science, 2016, , 149-163.	1.0	18
172	Using Feature Clustering for GP-Based Feature Construction on High-Dimensional Data. Lecture Notes in Computer Science, 2017, , 210-226.	1.0	18
173	Genetic programming for evolving figure-ground segmentors from multiple features. Applied Soft Computing Journal, 2017, 51, 83-95.	4.1	18
174	Genetic Programming for Feature Selection and Feature Construction in Skin Cancer Image Classification. Lecture Notes in Computer Science, 2018, , 732-745.	1.0	18
175	An Evolutionary Deep Learning Approach Using Genetic Programming with Convolution Operators for Image Classification. , 2019, , .		18
176	Rademacher Complexity for Enhancing the Generalization of Genetic Programming for Symbolic Regression. IEEE Transactions on Cybernetics, 2022, 52, 2382-2395.	6.2	18
177	Genetic Programming With Niching for Uncertain Capacitated Arc Routing Problem. IEEE Transactions on Evolutionary Computation, 2022, 26, 73-87.	7.5	18
178	Linear Genetic Programming for Multi-class Object Classification. Lecture Notes in Computer Science, 2005, , 369-379.	1.0	18
179	Surrogate-Assisted Genetic Programming for Dynamic Flexible Job Shop Scheduling. Lecture Notes in Computer Science, 2018, , 766-772.	1.0	18
180	Genetic programming for order acceptance and scheduling. , 2013, , .		17

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181	Multiple feature construction in classification on high-dimensional data using GP. , 2016, , .		17
182	Binary Image Classification: A Genetic Programming Approach to the Problem of Limited Training Instances. Evolutionary Computation, 2016, 24, 143-182.	2.3	17
183	Genetic Programming for Automatic Global and Local Feature Extraction to Image Classification. , 2018, , .		17
184	Evolving Deep Convolutional Variational Autoencoders for Image Classification. IEEE Transactions on Evolutionary Computation, 2021, 25, 815-829.	7.5	17
185	A Divide-and-Conquer Genetic Programming Algorithm With Ensembles for Image Classification. IEEE Transactions on Evolutionary Computation, 2021, 25, 1148-1162.	7.5	17
186	An Improved Genetic Programming Hyper-Heuristic for the Uncertain Capacitated Arc Routing Problem. Lecture Notes in Computer Science, 2018, , 432-444.	1.0	17
187	A PSO-Based Reference Point Adaption Method for Genetic Programming Hyper-Heuristic in Many-Objective Job Shop Scheduling. Lecture Notes in Computer Science, 2017, , 326-338.	1.0	17
188	Guided Subtree Selection for Genetic Operators in Genetic Programming for Dynamic Flexible Job Shop Scheduling. Lecture Notes in Computer Science, 2020, , 262-278.	1.0	17
189	Genetic programming for feature extraction and construction in image classification. Applied Soft Computing Journal, 2022, 118, 108509.	4.1	17
190	Multi-Objective Genetic Programming for object detection. , 2010, , .		16
191	Genetic programming for detecting target motions. Connection Science, 2012, 24, 117-141.	1.8	16
192	Evolving machine-specific dispatching rules for a two-machine job shop using genetic programming. , 2014, , .		16
193	An archive based particle swarm optimisation for feature selection in classification. , 2014, , .		16
194	Distribution-based invariant feature construction using genetic programming for edge detection. Soft Computing, 2015, 19, 2371-2389.	2.1	16
195	Genetic Programming Based Hyper-heuristics for Dynamic Job Shop Scheduling: Cooperative Coevolutionary Approaches. Lecture Notes in Computer Science, 2016, , 115-132.	1.0	16
196	Constrained Dimensionally Aware Genetic Programming for Evolving Interpretable Dispatching Rules in Dynamic Job Shop Scheduling. Lecture Notes in Computer Science, 2017, , 435-447.	1.0	16
197	Learning Reusable Initial Solutions for Multi-objective Order Acceptance and Scheduling Problems with Genetic Programming. Lecture Notes in Computer Science, 2013, , 157-168.	1.0	16
198	Fuzzy filter cost-sensitive feature selection with differential evolution. Knowledge-Based Systems, 2022, 241, 108259.	4.0	16

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199	Adapting modularity during learning in cooperative co-evolutionary recurrent neural networks. <i>Soft Computing</i> , 2012, 16, 1009-1020.	2.1	15
200	Optimal computing budget allocation in particle swarm optimization. , 2013, , .		15
201	Reusing learned functionality in XCS. , 2014, , .		15
202	Genetic Programming for Instance Transfer Learning in Symbolic Regression. <i>IEEE Transactions on Cybernetics</i> , 2022, 52, 25-38.	6.2	15
203	Online Program Simplification in Genetic Programming. <i>Lecture Notes in Computer Science</i> , 2006, , 592-600.	1.0	15
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