Mengjie Zhang

List of Publications by Citations

464 papers	9,759 citations	43 h-index	83 g-index
516 ext. papers	12,706 ext. citations	5 avg, IF	7.32 L-index

#	Paper	IF	Citations
464	. *IEEE Transactions on Evolutionary Computation*, **2016**, 20, 606-626	15.6	776
463	Particle swarm optimization for feature selection in classification: a multi-objective approach. *IEEE Transactions on Cybernetics*, **2013**, 43, 1656-71	10.2	716
462	Particle swarm optimisation for feature selection in classification: Novel initialisation and updating mechanisms. *Applied Soft Computing Journal*, **2014**, 18, 261-276	7.5	334
461	Deep Reconstruction-Classification Networks for Unsupervised Domain Adaptation. *Lecture Notes in Computer Science*, **2016**, 597-613	0.9	243
460	. *IEEE Transactions on Evolutionary Computation*, **2016**, 20, 110-124	15.6	215
459	Evolving Deep Convolutional Neural Networks for Image Classification. *IEEE Transactions on Evolutionary Computation*, **2020**, 24, 394-407	15.6	187
458	Domain Generalization for Object Recognition with Multi-task Autoencoders **2015**,		181
457	Automatically Designing CNN Architectures Using the Genetic Algorithm for Image Classification. *IEEE Transactions on Cybernetics*, **2020**, 50, 3840-3854	10.2	179
456	Differential evolution for filter feature selection based on information theory and feature ranking. *Knowledge-Based Systems*, **2018**, 140, 103-119	7.3	166
455	Pareto front feature selection based on artificial bee colony optimization. *Information Sciences*, **2018**, 422, 462-479	7.7	162
454	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	15.6	153
453	Evolving Diverse Ensembles Using Genetic Programming for Classification With Unbalanced Data. *IEEE Transactions on Evolutionary Computation*, **2013**, 17, 368-386	15.6	141
452	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	15.6	134
451	Domain Adaptive Neural Networks for Object Recognition. *Lecture Notes in Computer Science*, **2014**, 898-904	0.9	124
450	Genetic programming for production scheduling: a survey with a unified framework. *Complex & Intelligent Systems*, **2017**, 3, 41-66	7.1	110
449	A binary ABC algorithm based on advanced similarity scheme for feature selection. *Applied Soft Computing Journal*, **2015**, 36, 334-348	7.5	99
448	Genetic programming for feature construction and selection in classification on high-dimensional data. *Memetic Computing*, **2016**, 8, 3-15	3.4	99

429	A Particle Swarm Optimization-Based Flexible Convolutional Autoencoder for Image Classification. *IEEE Transactions on Neural Networks and Learning Systems*, **2019**, 30, 2295-2309	10.3	55
428	A New Two-Stage Evolutionary Algorithm for Many-Objective Optimization. *IEEE Transactions on Evolutionary Computation*, **2019**, 23, 748-761	15.6	48
427	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	7.5	48
426	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	4.1	45
425	Two-Tier genetic programming: towards raw pixel-based image classification. *Expert Systems With Applications*, **2012**, 39, 12291-12301	7.8	45
424	Multi-objective particle swarm optimisation (PSO) for feature selection **2012**,		45
423	Learning iterative dispatching rules for job shop scheduling with genetic programming. *International Journal of Advanced Manufacturing Technology*, **2013**, 67, 85-100	3.2	43
422	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	1.2	43
421	. *IEEE Transactions on Evolutionary Computation*, **2017**, 21, 825-844	15.6	42
420	A Comprehensive Comparison on Evolutionary Feature Selection Approaches to Classification. *International Journal of Computational Intelligence and Applications*, **2015**, 14, 1550008	1.2	40
419	A domain independent Genetic Programming approach to automatic feature extraction for image classification **2011**,		40
418	A survey on feature selection approaches for clustering. *Artificial Intelligence Review*, **2020**, 53, 4519-4545	9.7	40
417	Low-level feature extraction for edge detection using genetic programming. *IEEE Transactions on Cybernetics*, **2014**, 44, 1459-72	10.2	36
416	Fitness Functions in Genetic Programming for Classification with Unbalanced Data **2007**, 769-775		36
415	Genetic programming for multiple-feature construction on high-dimensional classification. *Pattern Recognition*, **2019**, 93, 404-417	7.7	32
414	Dynamic Multi-objective Job Shop Scheduling: A Genetic Programming Approach. *Studies in Computational Intelligence*, **2013**, 251-282	0.8	32
413	A multi-objective artificial bee colony approach to feature selection using fuzzy mutual information **2015**,		31
412	A new crossover operator in genetic programming for object classification. *IEEE Transactions on Systems, Man, and Cybernetics*, **2007**, 37, 1332-43		31

411	Multiple Reference Points-Based Decomposition for Multiobjective Feature Selection in Classification: Static and Dynamic Mechanisms. *IEEE Transactions on Evolutionary Computation*, **2020**, 24, 170-184	15.6	31
410	Evolving Scheduling Heuristics via Genetic Programming With Feature Selection in Dynamic Flexible Job-Shop Scheduling. *IEEE Transactions on Cybernetics*, **2021**, 51, 1797-1811	10.2	31
409	A Survey on Evolutionary Neural Architecture Search. *IEEE Transactions on Neural Networks and Learning Systems*, **2021**, PP,	10.3	31
408	Hybrid evolutionary computation methods for quay crane scheduling problems. *Computers and Operations Research*, **2013**, 40, 2083-2093	4.6	30
407	Particle Swarm Optimization based Adaboost for face detection **2009**,		29
406	Multi-objective Feature Selection in Classification: A Differential Evolution Approach. *Lecture Notes in Computer Science*, **2014**, 516-528	0.9	29
405	New mechanism for archive maintenance in PSO-based multi-objective feature selection. *Soft Computing*, **2016**, 20, 3927-3946	3.5	29
404	Genetic programming for evolving due-date assignment models in job shop environments. *Evolutionary Computation*, **2014**, 22, 105-38	4.3	28
403	Algebraic simplification of GP programs during evolution **2006**,		28
402	Genetic Programming for Region Detection, Feature Extraction, Feature Construction and Classification in Image Data. *Lecture Notes in Computer Science*, **2016**, 51-67	0.9	28
401	Population statistics for particle swarm optimization: Resampling methods in noisy optimization problems. *Swarm and Evolutionary Computation*, **2014**, 17, 37-59	9.8	27
400	Automated heuristic design using genetic programming hyper-heuristic for uncertain capacitated arc routing problem **2017**,		27
399	Enhanced feature selection for biomarker discovery in LC-MS data using GP **2013**,		27
398	Multiobjective Multitasking Optimization Based on Incremental Learning. *IEEE Transactions on Evolutionary Computation*, **2020**, 24, 824-838	15.6	27
397	Evolving optimum populations with XCS classifier systems. *Soft Computing*, **2013**, 17, 503-518	3.5	26
396	Genetic Programming for Feature Subset Ranking in Binary Classification Problems. *Lecture Notes in Computer Science*, **2009**, 121-132	0.9	26
395	Surrogate-Assisted Evolutionary Multitask Genetic Programming for Dynamic Flexible Job Shop Scheduling. *IEEE Transactions on Evolutionary Computation*, **2021**, 25, 651-665	15.6	26
394	A performance study on synchronicity and neighborhood size in particle swarm optimization. *Soft Computing*, **2013**, 17, 1019-1030	3.5	25

393	Multiple feature construction for effective biomarker identification and classification using genetic programming **2014**,		25
392	A Genetic Programming approach to distributed QoS-aware web service composition **2014**,		25
391	Evolving "less-myopic" scheduling rules for dynamic job shop scheduling with genetic programming **2014**,		25
390	Numerical simplification for bloat control and analysis of building blocks in genetic programming. *Evolutionary Intelligence*, **2009**, 2, 151-168	1.7	25
389	Improved PSO for Feature Selection on High-Dimensional Datasets. *Lecture Notes in Computer Science*, **2014**, 503-515	0.9	25
388	A PSO based hybrid feature selection algorithm for high-dimensional classification **2016**,		25
387	Genetic programming for QoS-aware web service composition and selection. *Soft Computing*, **2016**, 20, 3851-3867	3.5	24
386	Genetic Programming for Classification with Unbalanced Data. *Lecture Notes in Computer Science*, **2010**, 1-13	0.9	24
385	Genetic programming for medical classification: a program simplification approach. *Genetic Programming and Evolvable Machines*, **2008**, 9, 229-255	2	24
384	Improved binary particle swarm optimization for feature selection with new initialization and search space reduction strategies. *Applied Soft Computing Journal*, **2021**, 106, 107302	7.5	24
383	A New Binary Particle Swarm Optimization Approach: Momentum and Dynamic Balance Between Exploration and Exploitation. *IEEE Transactions on Cybernetics*, **2021**, 51, 589-603	10.2	24
382	Filter based backward elimination in wrapper based PSO for feature selection in classification **2014**,		23
381	Parent Selection Pressure Auto-Tuning for Tournament Selection in Genetic Programming. *IEEE Transactions on Evolutionary Computation*, **2013**, 17, 1-19	15.6	23
380	Many-objective genetic programming for job-shop scheduling **2016**,		23
379	Genetic Programming With a New Representation to Automatically Learn Features and Evolve Ensembles for Image Classification. *IEEE Transactions on Cybernetics*, **2021**, 51, 1769-1783	10.2	23
378	Image feature selection using genetic programming for figure-ground segmentation. *Engineering Applications of Artificial Intelligence*, **2017**, 62, 96-108	7.2	22
377	A two-stage genetic programming hyper-heuristic approach with feature selection for dynamic flexible job shop scheduling **2019**,		22
376	Particle swarm optimisation for feature selection: A hybrid filter-wrapper approach **2015**,		22

375	A Hybrid Genetic Programming Algorithm for Automated Design of Dispatching Rules. *Evolutionary Computation*, **2019**, 27, 467-496	4.3	22
374	Gaussian Based Particle Swarm Optimisation and Statistical Clustering for Feature Selection. *Lecture Notes in Computer Science*, **2014**, 133-144	0.9	22
373	A Divide-and-Conquer-Based Ensemble Classifier Learning by Means of Many-Objective Optimization. *IEEE Transactions on Evolutionary Computation*, **2018**, 22, 762-777	15.6	22
372	Multi-objective feature selection using hybridization of a genetic algorithm and direct multisearch for key quality characteristic selection. *Information Sciences*, **2020**, 523, 245-265	7.7	21
371	Feature Selection in Evolving Job Shop Dispatching Rules with Genetic Programming **2016**,		21
370	Investigation on particle swarm optimisation for feature selection on high-dimensional data: local search and selection bias. *Connection Science*, **2016**, 28, 270-294	2.8	21
369	Automatically Evolving Rotation-Invariant Texture Image Descriptors by Genetic Programming. *IEEE Transactions on Evolutionary Computation*, **2016**, 1-1	15.6	21
368	Extending learning classifier system with cyclic graphs for scalability on complex, large-scale boolean problems **2013**,		21
367	Evolving Ensembles of Dispatching Rules Using Genetic Programming for Job Shop Scheduling. *Lecture Notes in Computer Science*, **2015**, 92-104	0.9	21
366	Image descriptor: A genetic programming approach to multiclass texture classification **2015**,		20
365	Genetic Programming Hyper-Heuristic with Cooperative Coevolution for Dynamic Flexible Job Shop Scheduling. *Lecture Notes in Computer Science*, **2018**, 306-321	0.9	20
364	Common subtrees in related problems: A novel transfer learning approach for genetic programming **2017**,		20
363	Further investigation on genetic programming with transfer learning for symbolic regression **2016**,		20
362	. *IEEE Computational Intelligence Magazine*, **2020**, 15, 65-77	5.6	20
361	An Experimental Study on Hyper-parameter Optimization for Stacked Auto-Encoders **2018**,		20
360	Improving feature ranking for biomarker discovery in proteomics mass spectrometry data using genetic programming. *Connection Science*, **2014**, 26, 215-243	2.8	19
359	Extracting and using building blocks of knowledge in learning classifier systems **2012**,		19
358	Dimensionality reduction in face detection: A genetic programming approach **2009**,		19

357	GraphEvol: A Graph Evolution Technique for Web Service Composition. *Lecture Notes in Computer Science*, **2015**, 134-142	0.9	19
356	XCSR with Computed Continuous Action. *Lecture Notes in Computer Science*, **2012**, 350-361	0.9	19
355	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	15.6	19
354	Extracting image features for classification by two-tier genetic programming **2012**,		18
353	Particle Swarm Optimisation and Statistical Clustering for Feature Selection. *Lecture Notes in Computer Science*, **2013**, 214-220	0.9	18
352	A genetic programming based hyper-heuristic approach for combinatorial optimisation **2011**,		18
351	Improving Generalisation of Genetic Programming for Symbolic Regression with Structural Risk Minimisation **2016**,		18
350	Improving performance for classification with incomplete data using wrapper-based feature selection. *Evolutionary Intelligence*, **2016**, 9, 81-94	1.7	18
349	. *IEEE Transactions on Evolutionary Computation*, **2021**, 25, 205-218	15.6	18
348	Evolutionary Neural Architecture Search for High-Dimensional Skip-Connection Structures on DenseNet Style Networks. *IEEE Transactions on Evolutionary Computation*, **2021**, 1-1	15.6	18
347	An effective and efficient approach to classification with incomplete data. *Knowledge-Based Systems*, **2018**, 154, 1-16	7.3	18
346	Genetic programming for evolving figure-ground segmentors from multiple features. *Applied Soft Computing Journal*, **2017**, 51, 83-95	7.5	17
345	Multiple Imputation for Missing Data Using Genetic Programming **2015**,		17
344	Using genetic programming for context-sensitive feature scoring in classification problems. *Connection Science*, **2011**, 23, 183-207	2.8	17
343	Genetic Programming with Multi-tree Representation for Dynamic Flexible Job Shop Scheduling. *Lecture Notes in Computer Science*, **2018**, 472-484	0.9	17
342	Learning feature fusion strategies for various image types to detect salient objects. *Pattern Recognition*, **2016**, 60, 106-120	7.7	17
341	Generalisation and domain adaptation in GP with gradient descent for symbolic regression **2015**,		16
340	A Genetic Programming-Based Imputation Method for Classification with Missing Data. *Lecture Notes in Computer Science*, **2016**, 149-163	0.9	16

339	Particle Swarm Optimisation with genetic operators for feature selection **2017**,		16
338	Genetic programming for order acceptance and scheduling **2013**,		16
337	Random Asynchronous PSO **2011**,		16
336	Evolving ensembles in multi-objective genetic programming for classification with unbalanced data **2011**,		16
335	Evolutionary Multi-Objective Optimization for Web Service Location Allocation Problem. *IEEE Transactions on Services Computing*, **2021**, 14, 458-471	4.8	16
334	Improving performance of classification on incomplete data using feature selection and clustering. *Applied Soft Computing Journal*, **2018**, 73, 848-861	7.5	16
333	Evolutionary Deep Learning: A Genetic Programming Approach to Image Classification **2018**,		16
332	Genetic Programming for Automatic Global and Local Feature Extraction to Image Classification **2018**,		16
331	Binary Image Classification: A Genetic Programming Approach to the Problem of Limited Training Instances. *Evolutionary Computation*, **2016**, 24, 143-82	4.3	15
330	An automated ensemble learning framework using genetic programming for image classification **2019**,		15
329	A graph-based Particle Swarm Optimisation approach to QoS-aware web service composition and selection **2014**,		15
328	Evolving machine-specific dispatching rules for a two-machine job shop using genetic programming **2014**,		15
327	PSO and Statistical Clustering for Feature Selection: A New Representation. *Lecture Notes in Computer Science*, **2014**, 569-581	0.9	15
326	Genetic Programming Hyper-Heuristics with Vehicle Collaboration for Uncertain Capacitated Arc Routing Problems. *Evolutionary Computation*, **2020**, 28, 563-593	4.3	15
325	Structural Risk Minimization-Driven Genetic Programming for Enhancing Generalization in Symbolic Regression. *IEEE Transactions on Evolutionary Computation*, **2019**, 23, 703-717	15.6	15
324	Resampling in Particle Swarm Optimization **2013**,		14
323	Evolving heuristics for Dynamic Vehicle Routing with Time Windows using genetic programming **2017**,		14
322	Multi-Objective Genetic Programming for object detection **2010**,		14

321	Meta-learning and feature ranking using genetic programming for classification: Variable terminal weighting **2011**,		14
320	A new homogeneity-based approach to edge detection using PSO **2009**,		14
319	A performance study on synchronous and asynchronous updates in particle swarm optimization **2011**,		14
318	Using Numerical Simplification to Control Bloat in Genetic Programming. *Lecture Notes in Computer Science*, **2008**, 493-502	0.9	14
317	Learning Reusable Initial Solutions for Multi-objective Order Acceptance and Scheduling Problems with Genetic Programming. *Lecture Notes in Computer Science*, **2013**, 157-168	0.9	14
316	Improving Generalization of Genetic Programming for Symbolic Regression With Angle-Driven Geometric Semantic Operators. *IEEE Transactions on Evolutionary Computation*, **2019**, 23, 488-502	15.6	14
315	A Hybrid GP-KNN Imputation for Symbolic Regression with Missing Values. *Lecture Notes in Computer Science*, **2018**, 345-357	0.9	14
314	A Bilevel Ant Colony Optimization Algorithm for Capacitated Electric Vehicle Routing Problem. *IEEE Transactions on Cybernetics*, **2021**, PP,	10.2	14
313	Using Feature Clustering for GP-Based Feature Construction on High-Dimensional Data. *Lecture Notes in Computer Science*, **2017**, 210-226	0.9	13
312	Evolving Dispatching Rules for Multi-objective Dynamic Flexible Job Shop Scheduling via Genetic Programming Hyper-heuristics **2019**,		13
311	Distribution-based invariant feature construction using genetic programming for edge detection. *Soft Computing*, **2015**, 19, 2371-2389	3.5	13
310	Novel chaotic grouping particle swarm optimization with a dynamic regrouping strategy for solving numerical optimization tasks. *Knowledge-Based Systems*, **2020**, 194, 105568	7.3	13
309	Evolutionary computation for automatic Web service composition: an indirect representation approach. *Journal of Heuristics*, **2018**, 24, 425-456	1.9	13
308	Genetic Programming for Feature Selection and Feature Construction in Skin Cancer Image Classification. *Lecture Notes in Computer Science*, **2018**, 732-745	0.9	13
307	An archive based particle swarm optimisation for feature selection in classification **2014**,		13
306	Surrogate-Assisted Genetic Programming for Dynamic Flexible Job Shop Scheduling. *Lecture Notes in Computer Science*, **2018**, 766-772	0.9	13
305	An Automatic Feature Extraction Approach to Image Classification Using Genetic Programming. *Lecture Notes in Computer Science*, **2018**, 421-438	0.9	13
304	Genetic Programming with Greedy Search for Web Service Composition. *Lecture Notes in Computer Science*, **2013**, 9-17	0.9	13

303	Particle Swarm optimisation for Evolving Deep Neural Networks for Image Classification by Evolving and Stacking Transferable Blocks **2020**,		13
302	Multiple feature construction in classification on high-dimensional data using GP **2016**,		13
301	A Predictive-Reactive Approach with Genetic Programming and Cooperative Coevolution for the Uncertain Capacitated Arc Routing Problem. *Evolutionary Computation*, **2020**, 28, 289-316	4.3	13
300	Population statistics for particle swarm optimization: Single-evaluation methods in noisy optimization problems. *Soft Computing*, **2015**, 19, 2691-2716	3.5	12
299	Genetic programming hyper-heuristic for multi-vehicle uncertain capacitated arc routing problem **2018**,		12
298	Salient object detection using learning classifiersystems that compute action mappings **2014**,		12
297	Enhancing genetic programming based hyper-heuristics for dynamic multi-objective job shop scheduling problems **2015**,		12
296	Selection Schemes in Surrogate-Assisted Genetic Programming for Job Shop Scheduling. *Lecture Notes in Computer Science*, **2014**, 656-667	0.9	12
295	A performance study on the effects of noise and evaporation in Particle Swarm Optimization **2012**,		12
294	Adapting modularity during learning in cooperative co-evolutionary recurrent neural networks. *Soft Computing*, **2012**, 16, 1009-1020	3.5	12
293	Using unrestricted loops in genetic programming for image classification **2010**,		12
292	A preliminary approach to evolutionary multitasking for dynamic flexible job shop scheduling via genetic programming **2020**,		12
291	Unsupervised Elimination of Redundant Features Using Genetic Programming. *Lecture Notes in Computer Science*, **2009**, 432-442	0.9	12
290	Automatic Feature Extraction and Construction Using Genetic Programming for Rotating Machinery Fault Diagnosis. *IEEE Transactions on Cybernetics*, **2021**, 51, 4909-4923	10.2	12
289	Correlation Coefficient-Based Recombinative Guidance for Genetic Programming Hyperheuristics in Dynamic Flexible Job Shop Scheduling. *IEEE Transactions on Evolutionary Computation*, **2021**, 25, 552-566	15.6	12
288	Genetic Programming for Image Classification. *Adaptation, Learning, and Optimization*, **2021**,	0.7	12
287	Multitask Genetic Programming-Based Generative Hyperheuristics: A Case Study in Dynamic Scheduling. *IEEE Transactions on Cybernetics*, **2021**, PP,	10.2	12
286	Online Program Simplification in Genetic Programming. *Lecture Notes in Computer Science*, **2006**, 592-600	0.9	12

285	Learning complex, overlapping and niche imbalance Boolean problems using XCS-based classifier systems. *Evolutionary Intelligence*, **2013**, 6, 73-91	1.7	11
284	Learning overlapping natured and niche imbalance boolean problems using XCS classifier systems **2013**,		11
283	A coevolution genetic programming method to evolve scheduling policies for dynamic multi-objective job shop scheduling problems **2012**,		11
282	Binary particle swarm optimisation and rough set theory for dimension reduction in classification **2013**,		11
281	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	0.9	11
280	Using Particle Swarm Optimisation and the Silhouette Metric to Estimate the Number of Clusters, Select Features, and Perform Clustering. *Lecture Notes in Computer Science*, **2017**, 538-554	0.9	11
279	Ensemble Learning and Pruning in Multi-Objective Genetic Programming for Classification with Unbalanced Data. *Lecture Notes in Computer Science*, **2011**, 192-202	0.9	11
278	A Cooperative Coevolution Genetic Programming Hyper-Heuristic Approach for On-line Resource Allocation in Container-based Clouds. *IEEE Transactions on Cloud Computing*, **2020**, 1-1	3.3	11
277	Multi-objective genetic programming for feature learning in face recognition. *Applied Soft Computing Journal*, **2021**, 103, 107152	7.5	11
276	People-Centric Evolutionary System for Dynamic Production Scheduling. *IEEE Transactions on Cybernetics*, **2021**, 51, 1403-1416	10.2	11
275	Evolutionary feature manipulation in data mining/big data. *ACM SIGEVOlution*, **2017**, 10, 4-11	0.1	10
274	Genetic programming hyper-heuristic with knowledge transfer for uncertain capacitated arc routing problem **2019**,		10
273	Adaptive multi-subswarm optimisation for feature selection on high-dimensional classification **2019**,		10
272	Novel ensemble genetic programming hyper-heuristics for uncertain capacitated arc routing problem **2019**,		10
271	A sequential genetic programming method to learn forward construction heuristics for order acceptance and scheduling **2014**,		10
270	Optimal computing budget allocation in particle swarm optimization **2013**,		10
269	Differentiating between individual class performance in Genetic Programming fitness for classification with unbalanced data **2009**,		10
268	How online simplification affects building blocks in genetic programming **2009**,		10

267	Evolving Reusable Operation-Based Due-Date Assignment Models for Job Shop Scheduling with Genetic Programming. *Lecture Notes in Computer Science*, **2012**, 121-133	0.9	10
266	Automatic Construction of Invariant Features Using Genetic Programming for Edge Detection. *Lecture Notes in Computer Science*, **2012**, 144-155	0.9	10
265	Particle Swarm Optimisation with Sequence-Like Indirect Representation for Web Service Composition. *Lecture Notes in Computer Science*, **2016**, 202-218	0.9	10
264	Contextual-based top-down saliency feature weighting for target detection. *Machine Vision and Applications*, **2016**, 27, 893-914	2.8	10
263	A new imputation method based on genetic programming and weighted KNN for symbolic regression with incomplete data. *Soft Computing*, **2021**, 25, 5993-6012	3.5	10
262	An Evolutionary Multitasking-Based Feature Selection Method for High-Dimensional Classification. *IEEE Transactions on Cybernetics*, **2021**, PP,	10.2	10
261	Program Simplification in Genetic Programming for Object Classification. *Lecture Notes in Computer Science*, **2005**, 988-996	0.9	10
260	Linear Genetic Programming for Multi-class Object Classification. *Lecture Notes in Computer Science* , **2005**, 369-379	0.9	10
259	Genetic programming for edge detection: a Gaussian-based approach. *Soft Computing*, **2016**, 20, 1231-1248	3.5	9
258	Can Genetic Programming Do Manifold Learning Too?. *Lecture Notes in Computer Science*, **2019**, 114-130	0.9	9
257	Population statistics for particle swarm optimization: Hybrid methods in noisy optimization problems. *Swarm and Evolutionary Computation*, **2015**, 22, 15-29	9.8	9
256	Gaussian Transformation Based Representation in Particle Swarm Optimisation for Feature Selection. *Lecture Notes in Computer Science*, **2015**, 541-553	0.9	9
255	Genetic Programming for Evolving a Front of Interpretable Models for Data Visualization. *IEEE Transactions on Cybernetics*, **2021**, 51, 5468-5482	10.2	9
254	Generating Redundant Features with Unsupervised Multi-tree Genetic Programming. *Lecture Notes in Computer Science*, **2018**, 84-100	0.9	9
253	Transfer Learning in Genetic Programming Hyper-heuristic for Solving Uncertain Capacitated Arc Routing Problem **2019**,		9
252	Genetic Programming for Multiclass Texture Classification Using a Small Number of Instances. *Lecture Notes in Computer Science*, **2014**, 335-346	0.9	9
251	Genetic programming for image classification with unbalanced data **2009**,		9
250	Guided Subtree Selection for Genetic Operators in Genetic Programming for Dynamic Flexible Job Shop Scheduling. *Lecture Notes in Computer Science*, **2020**, 262-278	0.9	9

249	Evolutionary Multitask Optimisation for Dynamic Job Shop Scheduling Using Niched Genetic Programming. *Lecture Notes in Computer Science*, **2018**, 739-751	0.9	9
248	Transductive Transfer Learning in Genetic Programming for Document Classification. *Lecture Notes in Computer Science*, **2017**, 556-568	0.9	9
247	Particle swarm optimisation representations for simultaneous clustering and feature selection **2016**,		9
246	Genetic Programming Based Hyper-heuristics for Dynamic Job Shop Scheduling: Cooperative Coevolutionary Approaches. *Lecture Notes in Computer Science*, **2016**, 115-132	0.9	9
245	A Divide-and-Conquer Genetic Programming Algorithm with Ensembles for Image Classification. *IEEE Transactions on Evolutionary Computation*, **2021**, 1-1	15.6	9
244	Extending XCS with Cyclic Graphs for Scalability on Complex Boolean Problems. *Evolutionary Computation*, **2017**, 25, 173-204	4.3	8
243	An Evolutionary Deep Learning Approach Using Genetic Programming with Convolution Operators for Image Classification **2019**,		8
242	Can Stochastic Dispatching Rules Evolved by Genetic Programming Hyper-heuristics Help in Dynamic Flexible Job Shop Scheduling? **2019**,		8
241	A New Representation in Genetic Programming for Evolving Dispatching Rules for Dynamic Flexible Job Shop Scheduling. *Lecture Notes in Computer Science*, **2019**, 33-49	0.9	8
240	Instance based Transfer Learning for Genetic Programming for Symbolic Regression **2019**,		8
239	Fragment-based genetic programming for fully automated multi-objective web service composition **2017**,		8
238	Multiple imputation and genetic programming for classification with incomplete data **2017**,		8
237	Reusing learned functionality in XCS **2014**,		8
236	Effects of static and dynamic topologies in Particle Swarm Optimisation for edge detection in noisy images **2012**,		8
235	Edge detection using constrained discrete particle swarm optimisation in noisy images **2011**,		8
234	Evolution of aesthetically pleasing images without human-in-the-loop **2010**,		8
233	Automatically defined functions for learning classifier systems **2011**,		8
232	A memetic particle swarm optimization for constrained multi-objective optimization problems **2011**,		8

231	Soft edge maps from edge detectors evolved by genetic programming **2012**,	8
230	Genetic programming for improving image descriptors generated using the scale-invariant feature transform **2012**,	8
229	Genetic Programming for Biomarker Detection in Mass Spectrometry Data. *Lecture Notes in Computer Science*, **2012**, 266-278	0.9	8
228	A Wrapper Feature Selection Approach to Classification with Missing Data. *Lecture Notes in Computer Science*, **2016**, 685-700	0.9	8
227	Genetic Programming with Delayed Routing for Multiobjective Dynamic Flexible Job Shop Scheduling. *Evolutionary Computation*, **2021**, 29, 75-105	4.3	8
226	A Gaussian Filter-Based Feature Learning Approach Using Genetic Programming to Image Classification. *Lecture Notes in Computer Science*, **2018**, 251-257	0.9	8
225	A GP approach to QoS-aware web service composition including conditional constraints **2015**,	7
224	F-MOGP: A novel many-objective evolutionary approach to QoS-aware data intensive web service composition **2015**,	7
223	Improving genetic search in XCS-based classifier systems through understanding the evolvability of classifier rules. *Soft Computing*, **2015**, 19, 1863-1880	3.5	7
222	Generating Knowledge-Guided Discriminative Features Using Genetic Programming for Melanoma Detection. *IEEE Transactions on Emerging Topics in Computational Intelligence*, **2020**, 1-16	4.1	7
221	Optimization of Location Allocation of Web Services Using a Modified Non-dominated Sorting Genetic Algorithm. *Lecture Notes in Computer Science*, **2016**, 246-257	0.9	7
220	Parallel Multi-objective Job Shop Scheduling Using Genetic Programming. *Lecture Notes in Computer Science*, **2016**, 234-245	0.9	7
219	Modularity adaptation in cooperative coevolution of feedforward neural networks **2011**,	7
218	SCHEME: Caching subtrees in genetic programming **2008**,	7
217	Effects of program simplification on simple building blocks in Genetic Programming **2007**,	7
216	Genetic Programming with Adaptive Search Based on the Frequency of Features for Dynamic Flexible Job Shop Scheduling. *Lecture Notes in Computer Science*, **2020**, 214-230	0.9	7
215	A Supervised Figure-Ground Segmentation Method Using Genetic Programming. *Lecture Notes in Computer Science*, **2015**, 491-503	0.9	7
214	Empirical Analysis of GP Tree-Fragments **2007**, 55-67	7

213	Transparent, Online Image Pattern Classification Using a Learning Classifier System. *Lecture Notes in Computer Science*, **2011**, 183-193	0.9	7
212	Multi-objective genetic programming for manifold learning: balancing quality and dimensionality. *Genetic Programming and Evolvable Machines*, **2020**, 21, 399-431	2	7
211	Improving classification on images by extracting and transferring knowledge in genetic programming **2016**,		7
210	Evolutionary web service composition: A graph-based memetic algorithm **2016**,		7
209	Reusing Extracted Knowledge in Genetic Programming to Solve Complex Texture Image Classification Problems. *Lecture Notes in Computer Science*, **2016**, 117-129	0.9	7
208	Genetic Programming for Evolving Similarity Functions for Clustering: Representations and Analysis. *Evolutionary Computation*, **2020**, 28, 531-561	4.3	7
207	Genetic programming for development of cost-sensitive classifiers for binary high-dimensional unbalanced classification. *Applied Soft Computing Journal*, **2021**, 101, 106989	7.5	7
206	Evolutionary Multitasking for Feature Selection in High-dimensional Classification via Particle Swarm Optimisation. *IEEE Transactions on Evolutionary Computation*, **2021**, 1-1	15.6	7
205	Collaborative Multifidelity-Based Surrogate Models for Genetic Programming in Dynamic Flexible Job Shop Scheduling. *IEEE Transactions on Cybernetics*, **2021**, PP,	10.2	7
204	Bagging and Feature Selection for Classification with Incomplete Data. *Lecture Notes in Computer Science*, **2017**, 471-486	0.9	6
203	Differential evolution for instance based transfer learning in genetic programming for symbolic regression **2019**,		6
202	A Survey of Evolutionary Computation for Web Service Composition: A Technical Perspective. *IEEE Transactions on Emerging Topics in Computational Intelligence*, **2020**, 4, 538-554	4.1	6
201	Genetic Programming for Job Shop Scheduling. *Studies in Computational Intelligence*, **2019**, 143-167	0.8	6
200	A Multitree Genetic Programming Representation for Automatically Evolving Texture Image Descriptors. *Lecture Notes in Computer Science*, **2017**, 499-511	0.9	6
199	Genetic programming for skin cancer detection in dermoscopic images **2017**,		6
198	Hybridisation of Genetic Programming and Nearest Neighbour for classification **2013**,		6
197	Automatic feature extraction and image classification using genetic programming **2011**,		6
196	New fitness functions in binary particle swarm optimisation for feature selection **2012**,		6

195	Genetic programming for detecting target motions. *Connection Science*, **2012**, 24, 117-141	2.8	6
194	Evolving Deep Forest with Automatic Feature Extraction for Image Classification Using Genetic Programming. *Lecture Notes in Computer Science*, **2020**, 3-18	0.9	6
193	A Novel Genetic Programming Algorithm with Knowledge Transfer for Uncertain Capacitated Arc Routing Problem. *Lecture Notes in Computer Science*, **2019**, 196-200	0.9	6
192	Reusing Learned Functionality to Address Complex Boolean Functions. *Lecture Notes in Computer Science*, **2014**, 383-394	0.9	6
191	Constrained Dimensionally Aware Genetic Programming for Evolving Interpretable Dispatching Rules in Dynamic Job Shop Scheduling. *Lecture Notes in Computer Science*, **2017**, 435-447	0.9	6
190	Program Size and Pixel Statistics in Genetic Programming for Object Detection. *Lecture Notes in Computer Science*, **2004**, 379-388	0.9	6
189	Rademacher Complexity for Enhancing the Generalization of Genetic Programming for Symbolic Regression. *IEEE Transactions on Cybernetics*, **2020**, PP,	10.2	6
188	Accuracy-Based Learning Classifier Systems for Multistep Reinforcement Learning: A Fuzzy Logic Approach to Handling Continuous Inputs and Learning Continuous Actions. *IEEE Transactions on Evolutionary Computation*, **2016**, 20, 953-971	15.6	6
187	. *IEEE Computational Intelligence Magazine*, **2021**, 16, 84-98	5.6	6
186	Particle Swarm Optimisation for Feature Selection and Weighting in High-Dimensional Clustering **2018**,		6
185	GPGC **2017**,		5
184	Impact of imputation of missing values on genetic programming based multiple feature construction for classification **2015**,		5
183	A comprehensive analysis on reusability of GP-evolved job shop dispatching rules **2016**,		5
182	Multi-objective Genetic Programming for Figure-Ground Image Segmentation. *Lecture Notes in Computer Science*, **2016**, 134-146	0.9	5
181	Genetic Programming with Rademacher Complexity for Symbolic Regression **2019**,		5
180	Impacts of sampling strategies in tournament selection for genetic programming. *Soft Computing*, **2012**, 16, 615-633	3.5	5
179	A new GP-based wrapper feature construction approach to classification and biomarker identification **2014**,		5
178	Genetic programming for edge detection via balancing individual training images **2012**,		5

177	A new image segmentation algorithm based on modified seeded region growing and particle swarm optimization **2013**,		5
176	Feature selection based on PSO and decision-theoretic rough set model **2013**,		5
175	A Novel Genetic Algorithm Approach to Simultaneous Feature Selection and Instance Selection **2020**,		5
174	An Improved Genetic Programming Hyper-Heuristic for the Uncertain Capacitated Arc Routing Problem. *Lecture Notes in Computer Science*, **2018**, 432-444	0.9	5
173	Evolving Stochastic Dispatching Rules for Order Acceptance and Scheduling via Genetic Programming. *Lecture Notes in Computer Science*, **2013**, 478-489	0.9	5
172	A Variant Program Structure in Tree-Based Genetic Programming for Multiclass Object Classification. *Studies in Computational Intelligence*, **2009**, 55-72	0.8	5
171	Genetic Programming Hyper-Heuristics with Probabilistic Prototype Tree Knowledge Transfer for Uncertain Capacitated Arc Routing Problems **2020**,		5
170	Evolutionary scheduling and combinatorial optimisation: Applications, challenges, and future directions **2016**,		5
169	A Genetic Programming-based Wrapper Imputation Method for Symbolic Regression with Incomplete Data **2019**,		5
168	Figure-ground image segmentation using feature-based multi-objective genetic programming techniques. *Neural Computing and Applications*, **2019**, 31, 3075-3094	4.8	5
167	Genetic Programming Hyper-Heuristic for Stochastic Team Orienteering Problem with Time Windows **2018**,		5
166	Evolving Deep Convolutional Variational Autoencoders for Image Classification. *IEEE Transactions on Evolutionary Computation*, **2021**, 25, 815-829	15.6	5
165	New Fitness Functions in Genetic Programming for Classification with High-dimensional Unbalanced Data **2019**,		4
164	Genetic programming with transfer learning for texture image classification. *Soft Computing*, **2019**, 23, 12859-12871	3.5	4
163	Genetic programming for high-dimensional imbalanced classification with a new fitness function and program reuse mechanism. *Soft Computing*, **2020**, 24, 18021-18038	3.5	4
162	A Hybrid Evolutionary Computation Approach to Inducing Transfer Classifiers for Domain Adaptation. *IEEE Transactions on Cybernetics*, **2020**,	10.2	4
161	Evolutionary computation for feature manipulation: Key challenges and future directions **2016**,		4
160	Deception, blindness and disorientation in particle swarm optimization applied to noisy problems. *Swarm Intelligence*, **2014**, 8, 247-273	3	4

159	Genetic Programming Evolved Filters from a Small Number of Instances for Multiclass Texture Classification **2014**,		4
158	Evolving dispatching rules for dynamic Job shop scheduling with uncertain processing times **2017**,		4
157	Dynamic Job Shop Scheduling Under Uncertainty Using Genetic Programming. *Proceedings in Adaptation, Learning and Optimization*, **2017**, 195-210	0.2	4
156	A supervised feature weighting method for salient object detection using particle swarm optimization **2017**,		4
155	A differential evolution based feature selection approach using an improved filter criterion **2017**,		4
154	Unsupervised learning for edge detection using Genetic Programming **2014**,		4
153	Parallel linear genetic programming for multi-class classification. *Genetic Programming and Evolvable Machines*, **2012**, 13, 275-304	2	4
152	Comparison of two methods for computing action values in XCS with code-fragment actions **2013**,		4
151	Particle swarm optimisation based AdaBoost for object detection. *Soft Computing*, **2011**, 15, 1793-1805	3.5	4
150	Investigation of simplification threshold and noise level of input data in numerical simplification of genetic programs **2010**,		4
149	Improving edge detection using particle swarm optimisation **2010**,		4
148	**2009**,		4
147	Two-cornered learning classifier systems for pattern generation and classification **2012**,		4
146	A Digit Recognition System for Paper Currency Identification Based on Virtual Instruments **2006**,		4
145	Improving symbolic regression based on correlation between residuals and variables **2020**,		4
144	Multi-tree genetic programming for feature construction-based domain adaptation in symbolic regression with incomplete data **2020**,		4
143	A Multi-tree Genetic Programming Representation for Melanoma Detection Using Local and Global Features. *Lecture Notes in Computer Science*, **2018**, 111-123	0.9	4
142	Particle Swarm Optimization for Multi-Objective Web Service Location Allocation. *Lecture Notes in Computer Science*, **2016**, 219-234	0.9	4

141	Figure-ground image segmentation using genetic programming and feature selection **2016**,		4
140	**2016**,		4
139	Multitasking Genetic Programming for Stochastic Team Orienteering Problem with Time Windows **2019**,		4
138	Bayesian genetic programming for edge detection. *Soft Computing*, **2019**, 23, 4097-4112	3.5	4
137	Learning and Sharing: A Multitask Genetic Programming Approach to Image Feature Learning. *IEEE Transactions on Evolutionary Computation*, **2021**, 1-1	15.6	4
136	A Hybrid Memetic Approach for Fully Automated Multi-Objective Web Service Composition **2018**,		4
135	Investigating a Machine Breakdown Genetic Programming Approach for Dynamic Job Shop Scheduling. *Lecture Notes in Computer Science*, **2018**, 253-270	0.9	4
134	Multi-View Feature Construction Using Genetic Programming for Rolling Bearing Fault Diagnosis [Application Notes]. *IEEE Computational Intelligence Magazine*, **2021**, 16, 79-94	5.6	4
133	GP-based methods for domain adaptation: using brain decoding across subjects as a test-case. *Genetic Programming and Evolvable Machines*, **2019**, 20, 385-411	2	3
132	Using Learning Classifier Systems to Learn Stochastic Decision Policies. *IEEE Transactions on Evolutionary Computation*, **2015**, 19, 885-902	15.6	3
131	Code coverage optimisation in genetic algorithms and particle swarm optimisation for automatic software test data generation **2015**,		3
130	Adaptive charting genetic programming for dynamic flexible job shop scheduling **2018**,		3
129	Genetic Programming based Transfer Learning for Document Classification with Self-taught and Ensemble Learning **2019**,		3
128	Multi-Round Random Subspace Feature Selection for Incomplete Gene Expression Data **2019**,		3
127	Online Feature-Generation of Code Fragments for XCS to Guide Feature Construction **2019**,		3
126	Multiple reference points MOEA/D for feature selection **2017**,		3
125	An automatic region detection and processing approach in genetic programming for binary image classification **2017**,		3
124	A hybrid Genetic Programming approach to feature detection and image classification **2015**,		3

123   Pixel characteristics based feature extraction approach for roadside object detection **2015**,   3

122   Optimizing configuration of neural ensemble network for breast cancer diagnosis **2014**,   3

121   A hybrid discrete particle swarm optimisation method for grid computation scheduling **2014**,   3

120   Deep hybrid networks with good out-of-sample object recognition **2014**,   3

119   Enhancing Branch-and-Bound Algorithms for Order Acceptance and Scheduling with Genetic Programming. *Lecture Notes in Computer Science*, **2014**, 124-136   0.9   3

118   Contribution based bloat control in Genetic Programming **2010**,   3

117   A memetic framework for cooperative coevolution of recurrent neural networks **2011**,   3

116   A genetic programming approach to feature construction for ensemble learning in skin cancer detection **2020**,   3

115   Adaptive weighted splines **2020**,   3

114   Segmented initialization and offspring modification in evolutionary algorithms for bi-objective feature selection **2020**,   3

113   Enhancing Heuristics for Order Acceptance and Scheduling Using Genetic Programming. *Lecture Notes in Computer Science*, **2014**, 723-734   0.9   3

112   Class Dependent Multiple Feature Construction Using Genetic Programming for High-Dimensional Data. *Lecture Notes in Computer Science*, **2017**, 182-194   0.9   3

111   Parallel Linear Genetic Programming. *Lecture Notes in Computer Science*, **2011**, 178-189   0.9   3

110   Evaporation Mechanisms for Particle Swarm Optimization. *Lecture Notes in Computer Science*, **2012**, 238-247   3

109   Binary PSO for Web Service Location-Allocation. *Lecture Notes in Computer Science*, **2017**, 366-377   0.9   3

108   Genetic Programming with Noise Sensitivity for Imputation Predictor Selection in Symbolic Regression with Incomplete Data **2020**,   3

107   Multi-Tree Genetic Programming-based Transformation for Transfer Learning in Symbolic Regression with Highly Incomplete Data **2020**,   3

106   Hybridising Particle Swarm optimisation with Differential Evolution for Feature Selection in Classification **2020**,   3

105	A Forward Search Inspired Particle Swarm Optimization Algorithm for Feature Selection in Classification **2021**,		3
104	Severely noisy image segmentation via wavelet shrinkage using PSO and Fuzzy C-Means **2016**,		3
103	A memetic algorithm-based indirect approach to web service composition **2016**,		3
102	Directly evolving classifiers for missing data using genetic programming **2016**,		3
101	Multi-Tree Genetic Programming with New Operators for Transfer Learning in Symbolic Regression with Incomplete Data. *IEEE Transactions on Evolutionary Computation*, **2021**, 1-1	15.6	3
100	Genetic Programming-Based Discriminative Feature Learning for Low-Quality Image Classification. *IEEE Transactions on Cybernetics*, **2021**, PP,	10.2	3
99	An Object-Based Genetic Programming Approach for Cropland Field Extraction. *Remote Sensing*, **2022**, 14, 1275	5	3
98	Deep Convolutional Neural Networks for Detecting Dolphin Echolocation Clicks **2021**,		3
97	Active Sampling for Dynamic Job Shop Scheduling using Genetic Programming **2019**,		2
96	A Single Population Genetic Programming based Ensemble Learning Approach to Job Shop Scheduling **2015**,		2
95	Reuse of program trees in genetic programming with a new fitness function in high-dimensional unbalanced classification **2019**,		2
94	An adaptive genetic programming approach to QoS-aware web services composition **2013**,		2
93	Adaptive artificial datasets through learning classifier systems for classification tasks. *Evolutionary Intelligence*, **2013**, 6, 93-107	1.7	2
92	Sparse representations in deep learning for noise-robust digit classification **2013**,		2
91	Genetic programming for solving common and domain-independent generic recursive problems **2017**,		2
90	Genetic Programming with Embedded Feature Construction for High-Dimensional Symbolic Regression. *Proceedings in Adaptation, Learning and Optimization*, **2017**, 87-102	0.2	2
89	Information Divergence Based Saliency Detection with a Global Center-Surround Mechanism **2014**,		2
88	Scalability analysis of genetic programming classifiers **2012**,		2

87	Adaptive artificial datasets through learning classifier systems for classification tasks **2013**,		2
86	Depth-control strategies for crossover in tree-based genetic programming. *Soft Computing*, **2011**, 15, 1865-1878	3.5	2
85	Genetic programming for evolving programs with loop structures for classification tasks **2011**,		2
84	Evolving Genetic Programming classifiers with loop structures **2012**,		2
83	Genetic Programming with Knowledge Transfer and Guided Search for Uncertain Capacitated Arc Routing Problem. *IEEE Transactions on Evolutionary Computation*, **2021**, 1-1	15.6	2
82	Fuzzy filter cost-sensitive feature selection with differential evolution. *Knowledge-Based Systems*, **2022**, 241, 108259	7.3	2
81	BenchENAS: A Benchmarking Platform for Evolutionary Neural Architecture Search. *IEEE Transactions on Evolutionary Computation*, **2022**, 1-1	15.6	2
80	Genetic programming for feature extraction and construction in image classification. *Applied Soft Computing Journal*, **2022**, 118, 108509	7.5	2
79	High-dimensional Unbalanced Binary Classification by Genetic Programming with Multi-criterion Fitness Evaluation and Selection.. *Evolutionary Computation*, **2021**, 1-26	4.3	2
78	Automatically extracting features for face classification using multi-objective genetic programming **2020**,		2
77	Correlation-Guided Updating Strategy for Feature Selection in Classification with Surrogate-Assisted Particle Swarm Optimisation. *IEEE Transactions on Evolutionary Computation*, **2021**, 1-1	15.6	2
76	Sampling Heuristics for Multi-objective Dynamic Job Shop Scheduling Using Island Based Parallel Genetic Programming. *Lecture Notes in Computer Science*, **2018**, 347-359	0.9	2
75	Genetic Programming with Pareto Local Search for Many-Objective Job Shop Scheduling. *Lecture Notes in Computer Science*, **2019**, 536-548	0.9	2
74	GP-based Feature Selection and Weighted KNN-based Instance Selection for Symbolic Regression with Incomplete Data **2020**,		2
73	Particle Swarm Optimization for Evolving Deep Convolutional Neural Networks for Image Classification: Single- and Multi-Objective Approaches. *Natural Computing Series*, **2020**, 155-184	2.5	2
72	Geometric Semantic Genetic Programming with Perpendicular Crossover and Random Segment Mutation for Symbolic Regression. *Lecture Notes in Computer Science*, **2017**, 422-434	0.9	2
71	An Adaptive and Near Parameter-free Evolutionary Computation Approach Towards True Automation in AutoML **2020**,		2
70	Transductive transfer learning based Genetic Programming for balanced and unbalanced document classification using different types of features. *Applied Soft Computing Journal*, **2021**, 103, 107172	7.5	2

69	Automatically Extracting Features Using Genetic Programming for Low-Quality Fish Image Classification **2021**,		2
68	Genetic Algorithm for Feature and Latent Variable Selection for Nutrient Assessment in Horticultural Products **2021**,		2
67	Feature Selection for Evolving Many-Objective Job Shop Scheduling Dispatching Rules with Genetic Programming **2021**,		2
66	A Grid-dominance based Multi-objective Algorithm for Feature Selection in Classification **2021**,		2
65	A novel multi-task genetic programming approach to uncertain capacitated Arc routing problem **2021**,		2
64	Dimension reduction in classification using particle swarm optimisation and statistical variable grouping information **2016**,		2
63	The Evolution of Adjacency Matrices for Sparsity of Connection in DenseNets **2019**,		2
62	Evolving Ensembles of Routing Policies using Genetic Programming for Uncertain Capacitated Arc Routing Problem **2019**,		2
61	Genetic Programming for Multiple Feature Construction in Skin Cancer Image Classification **2019**,		2
60	A Cost-sensitive Genetic Programming Approach for High-dimensional Unbalanced Classification **2019**,		2
59	Genetic Programming with Niching for Uncertain Capacitated Arc Routing Problem. *IEEE Transactions on Evolutionary Computation*, **2021**, 1-1	15.6	2
58	Improved Crowding Distance in Multi-objective Optimization for Feature Selection in Classification. *Lecture Notes in Computer Science*, **2021**, 489-505	0.9	2
57	Automatically evolving difficult benchmark feature selection datasets with genetic programming **2018**,		2
56	Genetic Programming Based on Granular Computing for Classification with High-Dimensional Data. *Lecture Notes in Computer Science*, **2018**, 643-655	0.9	2
55	Fast Unsupervised Edge Detection Using Genetic Programming [Application Notes]. *IEEE Computational Intelligence Magazine*, **2018**, 13, 46-58	5.6	2
54	Surrogate-Assisted Particle Swarm Optimization for Evolving Variable-Length Transferable Blocks for Image Classification. *IEEE Transactions on Neural Networks and Learning Systems*, **2021**, PP,	10.3	2
53	Dual-Tree Genetic Programming for Few-Shot Image Classification. *IEEE Transactions on Evolutionary Computation*, **2021**, 1-1	15.6	2
52	Population-based ensemble classifier induction for domain adaptation **2019**,		1

51	Preprocessing Tandem Mass Spectra Using Genetic Programming for Peptide Identification. *Journal of the American Society for Mass Spectrometry*, **2019**, 30, 1294-1307	3.5	1
50	Genetic Programming for Instance Transfer Learning in Symbolic Regression. *IEEE Transactions on Cybernetics*, **2020**,	10.2	1
49	Niching Genetic Programming based Hyper-heuristic Approach to Dynamic Job Shop Scheduling **2016**,		1
48	Genetic programming for evolving programs with recursive structures **2016**,		1
47	A feature-based region growing-merging approach to color image segmentation **2013**,		1
46	Gaussian mixture models and information entropy for image segmentation using particle swarm optimisation **2013**,		1
45	Triangular-distribution-based feature construction using Genetic Programming for edge detection **2013**,		1
44	Evolving texture image descriptors using a multitree genetic programming representation **2017**,		1
43	A classification method based on self-adaptive artificial bee colony **2017**,		1
42	Three-cornered coevolution learning classifier systems for classification tasks **2014**,		1
41	Solving the forward kinematics of the 3RPR planar parallel manipulator using a hybrid meta-heuristic paradigm **2009**,		1
40	A Graph-Based Approach to Automatic Convolutional Neural Network Construction for Image Classification **2020**,		1
39	A Parametric Framework for Genetic Programming with Transfer Learning for Uncertain Capacitated Arc Routing Problem. *Lecture Notes in Computer Science*, **2020**, 150-162	0.9	1
38	Investigating the Correlation Amongst the Objective and Constraints in Gaussian Process-Assisted Highly-Constrained Expensive Optimization. *IEEE Transactions on Evolutionary Computation*, **2021**, 1-1	15.6	1
37	Neural architecture search for sparse DenseNets with dynamic compression **2020**,		1
36	Data Imputation for Symbolic Regression with Missing Values: A Comparative Study **2020**,		1
35	Using Local Search to Evaluate Dispatching Rules in Dynamic Job Shop Scheduling. *Lecture Notes in Computer Science*, **2015**, 222-233	0.9	1
34	New Representations in Genetic Programming for Feature Construction in k-Means Clustering. *Lecture Notes in Computer Science*, **2017**, 543-555	0.9	1

33	A Two Phase Genetic Programming Approach to Object Detection. *Lecture Notes in Computer Science*, **2004**, 224-231	0.9	1
32	Local Search in Parallel Linear Genetic Programming for Multiclass Classification. *Lecture Notes in Computer Science*, **2012**, 373-384	0.9	1
31	A Fitness-based Selection Method for Pareto Local Search for Many-Objective Job Shop Scheduling **2020**,		1
30	Genetic Programming-Based Feature Learning for Facial Expression Classification **2020**,		1
29	A Decomposition based Multi-objective Evolutionary Algorithm with ReliefF based Local Search and Solution Repair Mechanism for Feature Selection **2020**,		1
28	. *IEEE Transactions on Evolutionary Computation*, **2021**, 25, 492-507	15.6	1
27	Preserving Population Diversity Based on Transformed Semantics in Genetic Programming for Symbolic Regression. *IEEE Transactions on Evolutionary Computation*, **2021**, 25, 433-447	15.6	1
26	Genetic programming for borderline instance detection in high-dimensional unbalanced classification **2021**,		1
25	GP with a Hybrid Tree-vector Representation for Instance Selection and Symbolic Regression on Incomplete Data **2021**,		1
24	A dynamic feature map integration approach for predicting human fixation **2016**,		1
23	Automatically Evolving Texture Image Descriptors Using the Multitree Representation in Genetic Programming Using Few Instances. *Evolutionary Computation*, **2021**, 29, 331-366	4.3	1
22	Foreground and Background Feature Fusion Using a Convex Hull Based Center Prior for Salient Object Detection **2018**,		1
21	Multi-objective genetic programming for symbolic regression with the adaptive weighted splines representation **2021**,		1
20	Knowledge Transfer in Genetic Programming Hyper-heuristics. *Natural Computing Series*, **2021**, 149-169	2.5	1
19	Using a small number of training instances in genetic programming for face image classification. *Information Sciences*, **2022**, 593, 488-504	7.7	1
18	Genetic programming for automatic skin cancer image classification. *Expert Systems With Applications*, **2022**, 197, 116680	7.8	1
17	Genetic Programming for Image Classification: A New Program Representation with Flexible Feature Reuse. *IEEE Transactions on Evolutionary Computation*, **2022**, 1-1	15.6	1
16	Multitask Feature Learning as Multiobjective Optimization: A New Genetic Programming Approach to Image Classification. *IEEE Transactions on Cybernetics*, **2022**, 1-14	10.2	1

List of Publications

15	Confidence-based Ant Colony Optimization for Capacitated Electric Vehicle Routing Problem with Comparison of Different Encoding Schemes. *IEEE Transactions on Evolutionary Computation*, **2022**, 1-1	15.6	0
14	A Decomposition Based Multi-objective Genetic Programming Algorithm for Classification of Highly Imbalanced Tandem Mass Spectrometry. *Lecture Notes in Computer Science*, **2020**, 449-463	0.9	0
13	Simplifying Dispatching Rules in Genetic Programming for Dynamic Job Shop Scheduling. *Lecture Notes in Computer Science*, **2022**, 95-110	0.9	0
12	Guest Editorial Special Issue on Multitask Evolutionary Computation. *IEEE Transactions on Evolutionary Computation*, **2022**, 26, 202-205	15.6	0
11	An Investigation of Multitask Linear Genetic Programming for Dynamic Job Shop Scheduling. *Lecture Notes in Computer Science*, **2022**, 162-178	0.9	0
10	Knowledge Transfer Genetic Programming with Auxiliary Population for Solving Uncertain Capacitated Arc Routing Problem. *IEEE Transactions on Evolutionary Computation*, **2022**, 1-1	15.6	0
9	An on-line Pittsburgh LCS for the Three-Cornered Coevolution Framework. *Evolutionary Intelligence*, **2015**, 8, 185-201	1.7	
8	ArcText: A Unified Text Approach to Describing Convolutional Neural Network Architectures. *IEEE Transactions on Artificial Intelligence*, **2021**, 1-1	4.7	
7	A Two-Stage Efficient Evolutionary Neural Architecture Search Method for Image Classification. *Lecture Notes in Computer Science*, **2021**, 469-484	0.9	
6	GP with Image Descriptors for Learning Global and Local Features. *Adaptation, Learning, and Optimization*, **2021**, 117-143	0.7	
5	Evolutionary Computation and Genetic Programming. *Adaptation, Learning, and Optimization*, **2021**, 49-74	0.7	
4	Evolutionary Deep Learning Using GP with Convolution Operators. *Adaptation, Learning, and Optimization*, **2021**, 97-115	0.7	
3	Random Forest-Assisted GP for Feature Learning. *Adaptation, Learning, and Optimization*, **2021**, 207-226	0.7	
2	Multi-objective Genetic Programming with the Adaptive Weighted Splines Representation for Symbolic Regression. *Lecture Notes in Computer Science*, **2022**, 51-67	0.9	
1	A New Genetic Algorithm for Automated Spectral Pre-processing in Nutrient Assessment. *Lecture Notes in Computer Science*, **2022**, 283-298	0.9	