

Yaochu Jin

List of Publications by Citations

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417
papers

17,536
citations

65
h-index

123
g-index

466
ext. papers

22,530
ext. citations

5.9
avg, IF

7.82
L-index

#	Paper	IF	Citations
4 ¹⁷	Evolutionary optimization in uncertain environments-a survey. <i>IEEE Transactions on Evolutionary Computation</i> , 2005 , 9, 303-317	15.6	1044
4 ¹⁶	Surrogate-assisted evolutionary computation: Recent advances and future challenges. <i>Swarm and Evolutionary Computation</i> , 2011 , 1, 61-70	9.8	702
4 ¹⁵	A Reference Vector Guided Evolutionary Algorithm for Many-Objective Optimization. <i>IEEE Transactions on Evolutionary Computation</i> , 2016 , 20, 773-791	15.6	693
4 ¹⁴	PlatEMO: A MATLAB Platform for Evolutionary Multi-Objective Optimization [Educational Forum]. <i>IEEE Computational Intelligence Magazine</i> , 2017 , 12, 73-87	5.6	645
4 ¹³	RM-MEDA: A Regularity Model-Based Multiobjective Estimation of Distribution Algorithm. <i>IEEE Transactions on Evolutionary Computation</i> , 2008 , 12, 41-63	15.6	473
4 ¹²	A Knee Point-Driven Evolutionary Algorithm for Many-Objective Optimization. <i>IEEE Transactions on Evolutionary Computation</i> , 2015 , 19, 761-776	15.6	449
4 ¹¹	A competitive swarm optimizer for large scale optimization. <i>IEEE Transactions on Cybernetics</i> , 2015 , 45, 191-204	10.2	416
4 ¹⁰	A social learning particle swarm optimization algorithm for scalable optimization. <i>Information Sciences</i> , 2015 , 291, 43-60	7.7	401
4 ⁰⁹	A framework for evolutionary optimization with approximate fitness functions. <i>IEEE Transactions on Evolutionary Computation</i> , 2002 , 6, 481-494	15.6	399
4 ⁰⁸	. <i>IEEE Transactions on Fuzzy Systems</i> , 2000 , 8, 212-221	8.3	314
4 ⁰⁷	An Efficient Approach to Nondominated Sorting for Evolutionary Multiobjective Optimization. <i>IEEE Transactions on Evolutionary Computation</i> , 2015 , 19, 201-213	15.6	296
4 ⁰⁶	Generalizing Surrogate-Assisted Evolutionary Computation. <i>IEEE Transactions on Evolutionary Computation</i> , 2010 , 14, 329-355	15.6	291
4 ⁰⁵	An Indicator-Based Multiobjective Evolutionary Algorithm With Reference Point Adaptation for Better Versatility. <i>IEEE Transactions on Evolutionary Computation</i> , 2018 , 22, 609-622	15.6	251
4 ⁰⁴	Pareto-Based Multiobjective Machine Learning: An Overview and Case Studies. <i>IEEE Transactions on Systems, Man and Cybernetics, Part C: Applications and Reviews</i> , 2008 , 38, 397-415		230
4 ⁰³	A Decision Variable Clustering-Based Evolutionary Algorithm for Large-Scale Many-Objective Optimization. <i>IEEE Transactions on Evolutionary Computation</i> , 2018 , 22, 97-112	15.6	203
4 ⁰²	A Population Prediction Strategy for Evolutionary Dynamic Multiobjective Optimization. <i>IEEE Transactions on Cybernetics</i> , 2014 , 44, 40-53	10.2	198
4 ⁰¹	A Surrogate-Assisted Reference Vector Guided Evolutionary Algorithm for Computationally Expensive Many-Objective Optimization. <i>IEEE Transactions on Evolutionary Computation</i> , 2018 , 22, 129-142	15.6	194

400	A benchmark test suite for evolutionary many-objective optimization. <i>Complex & Intelligent Systems</i> , 2017 , 3, 67-81	7.1	187
399	Introduction to Evolutionary Algorithms. <i>Decision Engineering</i> , 2010 ,	0.1	187
398	Surrogate-Assisted Cooperative Swarm Optimization of High-Dimensional Expensive Problems. <i>IEEE Transactions on Evolutionary Computation</i> , 2017 , 21, 644-660	15.6	185
397	A Multiobjective Evolutionary Algorithm Using Gaussian Process-Based Inverse Modeling. <i>IEEE Transactions on Evolutionary Computation</i> , 2015 , 19, 838-856	15.6	176
396	Feature selection for high-dimensional classification using a competitive swarm optimizer. <i>Soft Computing</i> , 2018 , 22, 811-822	3.5	174
395	Committee-Based Active Learning for Surrogate-Assisted Particle Swarm Optimization of Expensive Problems. <i>IEEE Transactions on Cybernetics</i> , 2017 , 47, 2664-2677	10.2	171
394	Data-Driven Evolutionary Optimization: An Overview and Case Studies. <i>IEEE Transactions on Evolutionary Computation</i> , 2019 , 23, 442-458	15.6	160
393	Approximating the Set of Pareto-Optimal Solutions in Both the Decision and Objective Spaces by an Estimation of Distribution Algorithm. <i>IEEE Transactions on Evolutionary Computation</i> , 2009 , 13, 1167-1189	15.6	149
392	Optimization of micro heat exchanger: CFD, analytical approach and multi-objective evolutionary algorithms. <i>International Journal of Heat and Mass Transfer</i> , 2006 , 49, 1090-1099	4.9	144
391	Big Data Opportunities and Challenges: Discussions from Data Analytics Perspectives [Discussion Forum]. <i>IEEE Computational Intelligence Magazine</i> , 2014 , 9, 62-74	5.6	143
390	A Many-Objective Evolutionary Algorithm Using A One-by-One Selection Strategy. <i>IEEE Transactions on Cybernetics</i> , 2017 , 47, 2689-2702	10.2	138
389	A competitive mechanism based multi-objective particle swarm optimizer with fast convergence. <i>Information Sciences</i> , 2018 , 427, 63-76	7.7	138
388	Efficient Hierarchical Parallel Genetic Algorithms using Grid computing. <i>Future Generation Computer Systems</i> , 2007 , 23, 658-670	7.5	138
387	A Classification-Based Surrogate-Assisted Evolutionary Algorithm for Expensive Many-Objective Optimization. <i>IEEE Transactions on Evolutionary Computation</i> , 2019 , 23, 74-88	15.6	134
386	Multi-objective hierarchical genetic algorithm for interpretable fuzzy rule-based knowledge extraction. <i>Fuzzy Sets and Systems</i> , 2005 , 149, 149-186	3.7	132
385	Communication-Efficient Federated Deep Learning With Layerwise Asynchronous Model Update and Temporally Weighted Aggregation. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 2020 , 31, 4229-4238	10.3	122
384	Diversity Assessment in Many-Objective Optimization. <i>IEEE Transactions on Cybernetics</i> , 2017 , 47, 1510-1522	12.0	120
383	On generating FC(3) fuzzy rule systems from data using evolution strategies. <i>IEEE Transactions on Systems, Man, and Cybernetics</i> , 1999 , 29, 829-45		120

382	. <i>IEEE Transactions on Evolutionary Computation</i> , 2016 , 20, 939-952	15.6	119
381	Efficient search for robust solutions by means of evolutionary algorithms and fitness approximation. <i>IEEE Transactions on Evolutionary Computation</i> , 2006 , 10, 405-420	15.6	119
380	A two-layer surrogate-assisted particle swarm optimization algorithm. <i>Soft Computing</i> , 2015 , 19, 1461-1475	7.7	117
379	Surrogate-assisted hierarchical particle swarm optimization. <i>Information Sciences</i> , 2018 , 454-455, 59-72	7.7	116
378	Test Problems for Large-Scale Multiobjective and Many-Objective Optimization. <i>IEEE Transactions on Cybernetics</i> , 2017 , 47, 4108-4121	10.2	111
377	A critical survey of performance indices for multi-objective optimisation		108
376	A Survey of Deep Learning Applications to Autonomous Vehicle Control. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2021 , 22, 712-733	6.1	106
375	A Strengthened Dominance Relation Considering Convergence and Diversity for Evolutionary Many-Objective Optimization. <i>IEEE Transactions on Evolutionary Computation</i> , 2019 , 23, 331-345	15.6	101
374	An improved (H)-constrained differential evolution for constrained optimization. <i>Information Sciences</i> , 2013 , 222, 302-322	7.7	101
373	Trade-Off between Performance and Robustness: An Evolutionary Multiobjective Approach. <i>Lecture Notes in Computer Science</i> , 2003 , 237-251	0.9	97
372	A systems approach to evolutionary multiobjective structural optimization and beyond. <i>IEEE Computational Intelligence Magazine</i> , 2009 , 4, 62-76	5.6	95
371	Generalized Multitasking for Evolutionary Optimization of Expensive Problems. <i>IEEE Transactions on Evolutionary Computation</i> , 2019 , 23, 44-58	15.6	94
370	A new fitness estimation strategy for particle swarm optimization. <i>Information Sciences</i> , 2013 , 221, 355-370	7.7	88
369	A New Surrogate-Assisted Interactive Genetic Algorithm With Weighted Semisupervised Learning. <i>IEEE Transactions on Cybernetics</i> , 2013 , 43, 685-98	10.2	87
368	Prediction-Based Population Re-initialization for Evolutionary Dynamic Multi-objective Optimization 2007 , 832-846		85
367	Reducing Fitness Evaluations Using Clustering Techniques and Neural Network Ensembles. <i>Lecture Notes in Computer Science</i> , 2004 , 688-699	0.9	85
366	. <i>IEEE Transactions on Evolutionary Computation</i> , 2019 , 23, 203-216	15.6	82
365	Bio-inspired self-organising multi-robot pattern formation: A review. <i>Robotics and Autonomous Systems</i> , 2017 , 91, 83-100	3.5	81

364	Evolutionary Multiobjective Blocking Lot-Streaming Flow Shop Scheduling With Machine Breakdowns. <i>IEEE Transactions on Cybernetics</i> , 2019 , 49, 184-197	10.2	81
363	An Evolutionary Algorithm for Large-Scale Sparse Multiobjective Optimization Problems. <i>IEEE Transactions on Evolutionary Computation</i> , 2020 , 24, 380-393	15.6	81
362	Accelerating Large-Scale Multiobjective Optimization via Problem Reformulation. <i>IEEE Transactions on Evolutionary Computation</i> , 2019 , 23, 949-961	15.6	78
361	Multi-Objective Evolutionary Federated Learning. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 2020 , 31, 1310-1322	10.3	77
360	A framework for finding robust optimal solutions over time. <i>Memetic Computing</i> , 2013 , 5, 3-18	3.4	76
359	Evolutionary Many-Objective Optimization of Hybrid Electric Vehicle Control: From General Optimization to Preference Articulation. <i>IEEE Transactions on Emerging Topics in Computational Intelligence</i> , 2017 , 1, 97-111	4.1	75
358	Adapting Weighted Aggregation for Multiobjective Evolution Strategies. <i>Lecture Notes in Computer Science</i> , 2001 , 96-110	0.9	75
357	A directed search strategy for evolutionary dynamic multiobjective optimization. <i>Soft Computing</i> , 2015 , 19, 3221-3235	3.5	74
356	Surrogate-Assisted Evolutionary Deep Learning Using an End-to-End Random Forest-Based Performance Predictor. <i>IEEE Transactions on Evolutionary Computation</i> , 2020 , 24, 350-364	15.6	74
355	Multidirectional Prediction Approach for Dynamic Multiobjective Optimization Problems. <i>IEEE Transactions on Cybernetics</i> , 2019 , 49, 3362-3374	10.2	73
354	Evolutionary multi-objective generation of recurrent neural network ensembles for time series prediction. <i>Neurocomputing</i> , 2014 , 143, 302-311	5.4	71
353	Multiobjective Infill Criterion Driven Gaussian Process-Assisted Particle Swarm Optimization of High-Dimensional Expensive Problems. <i>IEEE Transactions on Evolutionary Computation</i> , 2019 , 23, 459-472	15.6	69
352	Lamarckian memetic algorithms: local optimum and connectivity structure analysis. <i>Memetic Computing</i> , 2009 , 1, 175-190	3.4	65
351	Agent-based evolutionary approach for interpretable rule-based knowledge extraction. <i>IEEE Transactions on Systems, Man and Cybernetics, Part C: Applications and Reviews</i> , 2005 , 35, 143-155		65
350	A radial space division based evolutionary algorithm for many-objective optimization. <i>Applied Soft Computing Journal</i> , 2017 , 61, 603-621	7.5	64
349	Effectiveness and efficiency of non-dominated sorting for evolutionary multi- and many-objective optimization. <i>Complex & Intelligent Systems</i> , 2017 , 3, 247-263	7.1	63
348	A mini-review on preference modeling and articulation in multi-objective optimization: current status and challenges. <i>Complex & Intelligent Systems</i> , 2017 , 3, 233-245	7.1	63
347	A data-driven surrogate-assisted evolutionary algorithm applied to a many-objective blast furnace optimization problem. <i>Materials and Manufacturing Processes</i> , 2017 , 32, 1172-1178	4.1	62

346	Combining Model-based and Genetics-based Offspring Generation for Multi-objective Optimization Using a Convergence Criterion		62
345	Stacking-based ensemble learning of decision trees for interpretable prostate cancer detection. <i>Applied Soft Computing Journal</i> , 2019 , 77, 188-204	7.5	60
344	The security challenges in the IoT enabled cyber-physical systems and opportunities for evolutionary computing & other computational intelligence 2016 ,		60
343	Advanced Fuzzy Systems Design and Applications. <i>Studies in Fuzziness and Soft Computing</i> , 2003 ,	0.7	60
342	Heterogeneous Ensemble-Based Infill Criterion for Evolutionary Multiobjective Optimization of Expensive Problems. <i>IEEE Transactions on Cybernetics</i> , 2019 , 49, 1012-1025	10.2	60
341	Efficient Large-Scale Multiobjective Optimization Based on a Competitive Swarm Optimizer. <i>IEEE Transactions on Cybernetics</i> , 2020 , 50, 3696-3708	10.2	60
340	A Coevolutionary Framework for Constrained Multiobjective Optimization Problems. <i>IEEE Transactions on Evolutionary Computation</i> , 2021 , 25, 102-116	15.6	59
339	Constructing Dynamic Optimization Test Problems Using the Multi-objective Optimization Concept. <i>Lecture Notes in Computer Science</i> , 2004 , 525-536	0.9	58
338	Evolutionary multi-objective blocking lot-streaming flow shop scheduling with interval processing time. <i>Applied Soft Computing Journal</i> , 2016 , 42, 229-245	7.5	57
337	A cellular mechanism for multi-robot construction via evolutionary multi-objective optimization of a gene regulatory network. <i>BioSystems</i> , 2009 , 98, 193-203	1.9	57
336	A Random Forest-Assisted Evolutionary Algorithm for Data-Driven Constrained Multiobjective Combinatorial Optimization of Trauma Systems. <i>IEEE Transactions on Cybernetics</i> , 2020 , 50, 536-549	10.2	56
335	A study on metamodeling techniques, ensembles, and multi-surrogates in evolutionary computation 2007 ,		55
334	Extracting Interpretable Fuzzy Rules from RBF Networks. <i>Neural Processing Letters</i> , 2003 , 17, 149-164	2.4	55
333	On Test Functions for Evolutionary Multi-objective Optimization. <i>Lecture Notes in Computer Science</i> , 2004 , 792-802	0.9	53
332	Decentralized adaptive fuzzy control of robot manipulators. <i>IEEE Transactions on Systems, Man, and Cybernetics</i> , 1998 , 28, 47-57		52
331	Evolution by adapting surrogates. <i>Evolutionary Computation</i> , 2013 , 21, 313-40	4.3	51
330	An improved support vector machine-based diabetic readmission prediction. <i>Computer Methods and Programs in Biomedicine</i> , 2018 , 166, 123-135	6.9	51
329	A Clustering-Based Adaptive Evolutionary Algorithm for Multiobjective Optimization With Irregular Pareto Fronts. <i>IEEE Transactions on Cybernetics</i> , 2019 , 49, 2758-2770	10.2	50

328	Autonomous Self-Reconfiguration of Modular Robots by Evolving a Hierarchical Mechanochemical Model. <i>IEEE Computational Intelligence Magazine</i> , 2011 , 6, 43-54	5.6	45
327	Morphogenetic Robotics: An Emerging New Field in Developmental Robotics. <i>IEEE Transactions on Systems, Man and Cybernetics, Part C: Applications and Reviews</i> , 2011 , 41, 145-160		44
326	A multi-objective evolutionary algorithm based on an enhanced inverted generational distance metric 2016 ,		44
325	Endocrine-based coevolutionary multi-swarm for multi-objective workflow scheduling in a cloud system. <i>Soft Computing</i> , 2017 , 21, 4309-4322	3.5	43
324	A two-stage R2 indicator based evolutionary algorithm for many-objective optimization. <i>Applied Soft Computing Journal</i> , 2018 , 67, 245-260	7.5	43
323	Surrogate-assisted multicriteria optimization: Complexities, prospective solutions, and business case. <i>Journal of Multi-Criteria Decision Analysis</i> , 2017 , 24, 5-24	1.9	42
322	Reduction strategies for hierarchical multi-label classification in protein function prediction. <i>BMC Bioinformatics</i> , 2016 , 17, 373	3.6	42
321	Diversity Assessment of Multi-Objective Evolutionary Algorithms: Performance Metric and Benchmark Problems [Research Frontier]. <i>IEEE Computational Intelligence Magazine</i> , 2019 , 14, 61-74	5.6	41
320	Approximate non-dominated sorting for evolutionary many-objective optimization. <i>Information Sciences</i> , 2016 , 369, 14-33	7.7	40
319	A Survey of Evolutionary Algorithms for Multi-Objective Optimization Problems With Irregular Pareto Fronts. <i>IEEE/CAA Journal of Automatica Sinica</i> , 2021 , 8, 303-318	7	40
318	A multi-objective evolutionary algorithm guided by directed search for dynamic scheduling. <i>Computers and Operations Research</i> , 2017 , 79, 279-290	4.6	39
317	Model-based evolutionary algorithms: a short survey. <i>Complex & Intelligent Systems</i> , 2018 , 4, 283-292	7.1	39
316	Self-organized swarm robot for target search and trapping inspired by bacterial chemotaxis. <i>Robotics and Autonomous Systems</i> , 2015 , 72, 83-92	3.5	39
315	Multitasking Multiobjective Evolutionary Operational Indices Optimization of Beneficiation Processes. <i>IEEE Transactions on Automation Science and Engineering</i> , 2019 , 16, 1046-1057	4.9	39
314	A knowledge-based evolutionary proactive scheduling approach in the presence of machine breakdown and deterioration effect. <i>Knowledge-Based Systems</i> , 2015 , 90, 70-80	7.3	38
313	Pattern Recommendation in Task-oriented Applications: A Multi-Objective Perspective [Application Notes]. <i>IEEE Computational Intelligence Magazine</i> , 2017 , 12, 43-53	5.6	37
312	A hierarchical gene regulatory network for adaptive multirobot pattern formation. <i>IEEE Transactions on Systems, Man, and Cybernetics</i> , 2012 , 42, 805-16		37
311	Evolutionary Multiobjective Image Feature Extraction in the Presence of Noise. <i>IEEE Transactions on Cybernetics</i> , 2015 , 45, 1757-68	10.2	35

310	Modeling neural plasticity in echo state networks for classification and regression. <i>Information Sciences</i> , 2016 , 364-365, 184-196	7.7	35
309	Robust optimization over time [A new perspective on dynamic optimization problems 2010 ,		35
308	A dynamic optimization approach to the design of cooperative co-evolutionary algorithms. <i>Knowledge-Based Systems</i> , 2016 , 109, 174-186	7.3	35
307	Reconstructing biological gene regulatory networks: where optimization meets big data. <i>Evolutionary Intelligence</i> , 2014 , 7, 29-47	1.7	34
306	A Network Reduction-Based Multiobjective Evolutionary Algorithm for Community Detection in Large-Scale Complex Networks. <i>IEEE Transactions on Cybernetics</i> , 2020 , 50, 703-716	10.2	34
305	Artificial intelligence in recommender systems. <i>Complex & Intelligent Systems</i> , 2021 , 7, 439-457	7.1	34
304	Federated learning on non-IID data: A survey. <i>Neurocomputing</i> , 2021 , 465, 371-390	5.4	34
303	Solving Large-Scale Multiobjective Optimization Problems With Sparse Optimal Solutions via Unsupervised Neural Networks. <i>IEEE Transactions on Cybernetics</i> , 2021 , 51, 3115-3128	10.2	33
302	A fitness approximation assisted competitive swarm optimizer for large scale expensive optimization problems. <i>Memetic Computing</i> , 2018 , 10, 123-134	3.4	32
301	Adaptive Reference Vector Generation for Inverse Model Based Evolutionary Multiobjective Optimization with Degenerate and Disconnected Pareto Fronts. <i>Lecture Notes in Computer Science</i> , 2015 , 127-140	0.9	32
300	An improved random forest-based rule extraction method for breast cancer diagnosis. <i>Applied Soft Computing Journal</i> , 2020 , 86, 105941	7.5	32
299	Evolutionary Multiobjective Optimization Driven by Generative Adversarial Networks (GANs). <i>IEEE Transactions on Cybernetics</i> , 2021 , 51, 3129-3142	10.2	32
298	High-Dimensional Robust Multi-Objective Optimization for Order Scheduling: A Decision Variable Classification Approach. <i>IEEE Transactions on Industrial Informatics</i> , 2019 , 15, 293-304	11.9	31
297	Inverse multi-objective robust evolutionary design. <i>Genetic Programming and Evolvable Machines</i> , 2006 , 7, 383-404	2	31
296	An adaptive decomposition-based evolutionary algorithm for many-objective optimization. <i>Information Sciences</i> , 2019 , 491, 204-222	7.7	29
295	Multi-objective ensemble generation. <i>Wiley Interdisciplinary Reviews: Data Mining and Knowledge Discovery</i> , 2015 , 5, 234-245	6.9	29
294	Balancing Population- and Individual-Level Adaptation in Changing Environments. <i>Adaptive Behavior</i> , 2009 , 17, 153-174	1.1	29
293	Classifier ensembles for image identification using multi-objective Pareto features. <i>Neurocomputing</i> , 2017 , 238, 316-327	5.4	28

292	Comparing neural networks and Kriging for fitness approximation in evolutionary optimization		28
291	A tree ensemble-based two-stage model for advanced-stage colorectal cancer survival prediction. <i>Information Sciences</i> , 2019 , 474, 106-124	7.7	28
290	Sampling Reference Points on the Pareto Fronts of Benchmark Multi-Objective Optimization Problems 2018 ,		28
289	A Generic Test Suite for Evolutionary Multifidelity Optimization. <i>IEEE Transactions on Evolutionary Computation</i> , 2018 , 22, 836-850	15.6	27
288	A Kriging-Assisted Two-Archive Evolutionary Algorithm for Expensive Many-Objective Optimization. <i>IEEE Transactions on Evolutionary Computation</i> , 2021 , 1-1	15.6	24
287	. <i>IEEE Transactions on Systems, Man, and Cybernetics</i> , 1995 , 25, 990-997		23
286	A Bio-Inspired Self-Learning Coevolutionary Dynamic Multiobjective Optimization Algorithm for Internet of Things Services. <i>IEEE Transactions on Evolutionary Computation</i> , 2019 , 23, 675-688	15.6	23
285	Benchmark Problems and Performance Indicators for Search of Knee Points in Multiobjective Optimization. <i>IEEE Transactions on Cybernetics</i> , 2020 , 50, 3531-3544	10.2	23
284	A multi-objective approach to robust optimization over time considering switching cost. <i>Information Sciences</i> , 2017 , 394-395, 183-197	7.7	22
283	An adaptive Bayesian approach to surrogate-assisted evolutionary multi-objective optimization. <i>Information Sciences</i> , 2020 , 519, 317-331	7.7	22
282	A Unified Framework for Symbiosis of Evolutionary Mechanisms with Application to Water Clusters Potential Model Design. <i>IEEE Computational Intelligence Magazine</i> , 2012 , 7, 20-35	5.6	22
281	A morphogenetic approach to flexible and robust shape formation for swarm robotic systems. <i>Robotics and Autonomous Systems</i> , 2013 , 61, 25-38	3.5	22
280	Multi-train: A semi-supervised heterogeneous ensemble classifier. <i>Neurocomputing</i> , 2017 , 249, 202-211	5.4	21
279	On the Effectiveness of Sampling for Evolutionary Optimization in Noisy Environments. <i>Evolutionary Computation</i> , 2018 , 26, 237-267	4.3	21
278	Modeling activity-dependent plasticity in BCM spiking neural networks with application to human behavior recognition. <i>IEEE Transactions on Neural Networks</i> , 2011 , 22, 1952-66		21
277	Guiding Evolutionary Multiobjective Optimization With Generic Front Modeling. <i>IEEE Transactions on Cybernetics</i> , 2020 , 50, 1106-1119	10.2	21
276	A Developmental Approach to Structural Self-Organization in Reservoir Computing. <i>IEEE Transactions on Autonomous Mental Development</i> , 2012 , 4, 273-289		20
275	Real-World Applications of Multiobjective Optimization. <i>Lecture Notes in Computer Science</i> , 2008 , 285-327.9		20

274	Adaptive encoding for aerodynamic shape optimization using evolution strategies		20
273	Evolutionary Multi-objective Optimization for Simultaneous Generation of Signal-Type and Symbol-Type Representations. <i>Lecture Notes in Computer Science</i> , 2005 , 752-766	0.9	20
272	Individual-based Management of Meta-models for Evolutionary Optimization with Application to Three-Dimensional Blade Optimization. <i>Studies in Computational Intelligence</i> , 2007 , 225-250	0.8	20
271	A complete expected improvement criterion for Gaussian process assisted highly constrained expensive optimization. <i>Information Sciences</i> , 2019 , 471, 80-96	7.7	20
270	(mu)JADE: adaptive differential evolution with a small population. <i>Soft Computing</i> , 2016 , 20, 4111-4120	3.5	19
269	User-oriented many-objective cloud workflow scheduling based on an improved knee point driven evolutionary algorithm. <i>Knowledge-Based Systems</i> , 2017 , 135, 113-124	7.3	19
268	A repository of real-world datasets for data-driven evolutionary multiobjective optimization. <i>Complex & Intelligent Systems</i> , 2020 , 6, 189-197	7.1	19
267	Multi-surrogate multi-tasking optimization of expensive problems. <i>Knowledge-Based Systems</i> , 2020 , 205, 106262	7.3	19
266	From federated learning to federated neural architecture search: a survey. <i>Complex & Intelligent Systems</i> , 2021 , 7, 639-657	7.1	19
265	Evolutionary multi-objective optimization based ensemble autoencoders for image outlier detection. <i>Neurocomputing</i> , 2018 , 309, 192-200	5.4	18
264	Computational Intelligence in Big Data [Guest Editorial]. <i>IEEE Computational Intelligence Magazine</i> , 2014 , 9, 12-13	5.6	18
263	Surrogate-assisted evolutionary multiobjective shape optimization of an air intake ventilation system 2017 ,		18
262	Computational modeling of neural plasticity for self-organization of neural networks. <i>BioSystems</i> , 2014 , 125, 43-54	1.9	18
261	Evolutionary Computation and Big Data: Key Challenges and Future Directions. <i>Lecture Notes in Computer Science</i> , 2016 , 3-14	0.9	18
260	Particle swarm optimization for network-based data classification. <i>Neural Networks</i> , 2019 , 110, 243-255	9.1	18
259	Finding Influential Nodes in Multiplex Networks Using a Memetic Algorithm. <i>IEEE Transactions on Cybernetics</i> , 2021 , 51, 900-912	10.2	18
258	Ternary Compression for Communication-Efficient Federated Learning. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 2020 , PP,	10.3	18
257	. <i>IEEE Computational Intelligence Magazine</i> , 2021 , 16, 34-48	5.6	18

256	Augmented windows fuzzy firewall for preventing denial of service attack 2017 ,		17
255	Multimodal Optimization Enhanced Cooperative Coevolution for Large-Scale Optimization. <i>IEEE Transactions on Cybernetics</i> , 2019 , 49, 3507-3520	10.2	17
254	A time series driven decomposed evolutionary optimization approach for reconstructing large-scale gene regulatory networks based on fuzzy cognitive maps. <i>BMC Bioinformatics</i> , 2017 , 18, 241	3.6	17
253	Echo state networks regulated by local intrinsic plasticity rules for regression. <i>Neurocomputing</i> , 2019 , 351, 111-122	5.4	16
252	An affinity propagation clustering based particle swarm optimizer for dynamic optimization. <i>Knowledge-Based Systems</i> , 2020 , 195, 105711	7.3	16
251	Two-stage assortative mating for multi-objective multifactorial evolutionary optimization 2017 ,		16
250	Generating diverse and accurate classifier ensembles using multi-objective optimization 2014 ,		16
249	Evolutionary Complex Engineering Optimization: Opportunities and Challenges [Guest Editorial]. <i>IEEE Computational Intelligence Magazine</i> , 2013 , 8, 12-15	5.6	16
248	Co-evolutionary modular neural networks for automatic problem decomposition		16
247	An endocrine-based intelligent distributed cooperative algorithm for target tracking in wireless sensor networks. <i>Soft Computing</i> , 2015 , 19, 1427-1441	3.5	15
246	2011 ,		15
245	Robustness Analysis and Failure Recovery of a Bio-Inspired Self-Organizing Multi-Robot System 2009 ,		15
244	A cellular model for the evolutionary development of lightweight material with an inner structure 2008 ,		15
243	Knowledge Incorporation into Neural Networks From Fuzzy Rules. <i>Neural Processing Letters</i> , 1999 , 10, 231-242	2.4	15
242	Evolutionary Optimization with Dynamic Fidelity Computational Models. <i>Lecture Notes in Computer Science</i> , 2008 , 235-242	0.9	15
241	Connections of reference vectors and different types of preference information in interactive multiobjective evolutionary algorithms 2016 ,		15
240	On Constraint Handling in Surrogate-Assisted Evolutionary Many-Objective Optimization. <i>Lecture Notes in Computer Science</i> , 2016 , 214-224	0.9	15
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66	An adaptive model selection strategy for surrogate-assisted particle swarm optimization algorithm 2016 ,		2
65	Small data driven evolutionary multi-objective optimization of fused magnesium furnaces 2016 ,		2
64	Bayesian Approaches to Surrogate-Assisted Evolutionary Multi-objective Optimization: A Comparative Study 2019 ,		2
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