

Xin Yao

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

640
papers

30,066
citations

77
h-index

157
g-index

715
ext. papers

36,273
ext. citations

5.4
avg, IF

7.91
L-index

#	Paper	IF	Citations
640	Evolutionary programming made faster. <i>IEEE Transactions on Evolutionary Computation</i> , 1999 , 3, 82-102	15.6	2292
639	. <i>Proceedings of the IEEE</i> , 1999 , 87, 1423-1447	14.3	1551
638	Stochastic ranking for constrained evolutionary optimization. <i>IEEE Transactions on Evolutionary Computation</i> , 2000 , 4, 284-294	15.6	1034
637	. <i>IEEE Transactions on Evolutionary Computation</i> , 2016 , 20, 606-626	15.6	776
636	Large scale evolutionary optimization using cooperative coevolution. <i>Information Sciences</i> , 2008 , 178, 2985-2999	7.7	634
635	Diversity creation methods: a survey and categorisation. <i>Information Fusion</i> , 2005 , 6, 5-20	16.7	597
634	A new evolutionary system for evolving artificial neural networks. <i>IEEE Transactions on Neural Networks</i> , 1997 , 8, 694-713		593
633	MWMOTE--Majority Weighted Minority Oversampling Technique for Imbalanced Data Set Learning. <i>IEEE Transactions on Knowledge and Data Engineering</i> , 2014 , 26, 405-425	4.2	470
632	Cooperatively Coevolving Particle Swarms for Large Scale Optimization. <i>IEEE Transactions on Evolutionary Computation</i> , 2012 , 16, 210-224	15.6	459
631	Ensemble learning via negative correlation. <i>Neural Networks</i> , 1999 , 12, 1399-1404	9.1	432
630	Many-Objective Evolutionary Algorithms. <i>ACM Computing Surveys</i> , 2015 , 48, 1-35	13.4	419
629	Cooperative Co-Evolution With Differential Grouping for Large Scale Optimization. <i>IEEE Transactions on Evolutionary Computation</i> , 2014 , 18, 378-393	15.6	413
628	A New Dominance Relation-Based Evolutionary Algorithm for Many-Objective Optimization. <i>IEEE Transactions on Evolutionary Computation</i> , 2016 , 20, 16-37	15.6	395
627	. <i>IEEE Transactions on Evolutionary Computation</i> , 2015 , 19, 524-541	15.6	349
626	Evolutionary programming using mutations based on the Levy probability distribution. <i>IEEE Transactions on Evolutionary Computation</i> , 2004 , 8, 1-13	15.6	326
625	Using Class Imbalance Learning for Software Defect Prediction. <i>IEEE Transactions on Reliability</i> , 2013 , 62, 434-443	4.6	295
624	Search biases in constrained evolutionary optimization. <i>IEEE Transactions on Systems, Man and Cybernetics, Part C: Applications and Reviews</i> , 2005 , 35, 233-243		287

623	A review of evolutionary artificial neural networks. <i>International Journal of Intelligent Systems</i> , 1993 , 8, 539-567	8.4	286
622	Multiclass Imbalance Problems: Analysis and Potential Solutions. <i>IEEE Transactions on Systems, Man, and Cybernetics</i> , 2012 , 42, 1119-30		285
621	Drift analysis and average time complexity of evolutionary algorithms. <i>Artificial Intelligence</i> , 2001 , 127, 57-85	3.6	277
620	An analysis of diversity measures. <i>Machine Learning</i> , 2006 , 65, 247-271	4	273
619	Evolutionary ensembles with negative correlation learning. <i>IEEE Transactions on Evolutionary Computation</i> , 2000 , 4, 380-387	15.6	273
618	The Impact of Diversity on Online Ensemble Learning in the Presence of Concept Drift. <i>IEEE Transactions on Knowledge and Data Engineering</i> , 2010 , 22, 730-742	4.2	271
617	DDD: A New Ensemble Approach for Dealing with Concept Drift. <i>IEEE Transactions on Knowledge and Data Engineering</i> , 2012 , 24, 619-633	4.2	256
616	Software Module Clustering as a Multi-Objective Search Problem. <i>IEEE Transactions on Software Engineering</i> , 2011 , 37, 264-282	3.5	234
615	Balancing Convergence and Diversity in Decomposition-Based Many-Objective Optimizers. <i>IEEE Transactions on Evolutionary Computation</i> , 2016 , 20, 180-198	15.6	232
614	Diversity analysis on imbalanced data sets by using ensemble models 2009 ,		220
613	Experimental study on population-based incremental learning algorithms for dynamic optimization problems. <i>Soft Computing</i> , 2005 , 9, 815-834	3.5	200
612	Population-Based Incremental Learning With Associative Memory for Dynamic Environments. <i>IEEE Transactions on Evolutionary Computation</i> , 2008 , 12, 542-561	15.6	197
611	A constructive algorithm for training cooperative neural network ensembles. <i>IEEE Transactions on Neural Networks</i> , 2003 , 14, 820-34		191
610	A benchmark test suite for evolutionary many-objective optimization. <i>Complex & Intelligent Systems</i> , 2017 , 3, 67-81	7.1	187
609	Resampling-Based Ensemble Methods for Online Class Imbalance Learning. <i>IEEE Transactions on Knowledge and Data Engineering</i> , 2015 , 27, 1356-1368	4.2	185
608	Decomposition-Based Memetic Algorithm for Multiobjective Capacitated Arc Routing Problem. <i>IEEE Transactions on Evolutionary Computation</i> , 2011 , 15, 151-165	15.6	179
607	. <i>IEEE Transactions on Evolutionary Computation</i> , 2003 , 7, 532-545	15.6	177
606	Making use of population information in evolutionary artificial neural networks. <i>IEEE Transactions on Systems, Man, and Cybernetics</i> , 1998 , 28, 417-25		170

605	A study of drift analysis for estimating computation time of evolutionary algorithms. <i>Natural Computing</i> , 2004 , 3, 21-35	1.3	165
604	Simultaneous training of negatively correlated neural networks in an ensemble. <i>IEEE Transactions on Systems, Man, and Cybernetics</i> , 1999 , 29, 716-25		159
603	Evolutionary artificial neural networks. <i>International Journal of Neural Systems</i> , 1993 , 4, 203-22	6.2	146
602	Evolving Diverse Ensembles Using Genetic Programming for Classification With Unbalanced Data. <i>IEEE Transactions on Evolutionary Computation</i> , 2013 , 17, 368-386	15.6	141
601	Time complexity of evolutionary algorithms for combinatorial optimization: A decade of results. <i>International Journal of Automation and Computing</i> , 2007 , 4, 281-293	3.5	139
600	Memetic Algorithm With Extended Neighborhood Search for Capacitated Arc Routing Problems. <i>IEEE Transactions on Evolutionary Computation</i> , 2009 , 13, 1151-1166	15.6	138
599	DG2: A Faster and More Accurate Differential Grouping for Large-Scale Black-Box Optimization. <i>IEEE Transactions on Evolutionary Computation</i> , 2017 , 21, 929-942	15.6	137
598	Promises and challenges of evolvable hardware. <i>IEEE Transactions on Systems, Man and Cybernetics, Part C: Applications and Reviews</i> , 1999 , 29, 87-97		136
597	Cooperative Co-evolution with delta grouping for large scale non-separable function optimization 2010 ,		132
596	Population-Based Algorithm Portfolios for Numerical Optimization. <i>IEEE Transactions on Evolutionary Computation</i> , 2010 , 14, 782-800	15.6	131
595	. <i>IEEE Transactions on Evolutionary Computation</i> , 2016 , 20, 924-938	15.6	128
594	A novel co-evolutionary approach to automatic software bug fixing 2008 ,		126
593	Towards an analytic framework for analysing the computation time of evolutionary algorithms. <i>Artificial Intelligence</i> , 2003 , 145, 59-97	3.6	124
592	Diversity Assessment in Many-Objective Optimization. <i>IEEE Transactions on Cybernetics</i> , 2017 , 47, 1510-1522	15.6	120
591	Ensemble Learning Using Multi-Objective Evolutionary Algorithms. <i>Mathematical Modelling and Algorithms</i> , 2006 , 5, 417-445		117
590	Mathematical modeling and multi-objective evolutionary algorithms applied to dynamic flexible job shop scheduling problems. <i>Information Sciences</i> , 2015 , 298, 198-224	7.7	115
589	Quality Evaluation of Solution Sets in Multiobjective Optimisation. <i>ACM Computing Surveys</i> , 2019 , 52, 1-38	13.4	114
588	From an individual to a population: an analysis of the first hitting time of population-based evolutionary algorithms. <i>IEEE Transactions on Evolutionary Computation</i> , 2002 , 6, 495-511	15.6	110

587	Cooperative Co-evolution for large scale optimization through more frequent random grouping 2010 ,		109
586	A Competitive Divide-and-Conquer Algorithm for Unconstrained Large-Scale Black-Box Optimization. <i>ACM Transactions on Mathematical Software</i> , 2016 , 42, 1-24	2.3	109
585	Evolving hybrid ensembles of learning machines for better generalisation. <i>Neurocomputing</i> , 2006 , 69, 686-700	5.4	105
584	Dynamic sampling approach to training neural networks for multiclass imbalance classification. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 2013 , 24, 647-60	10.3	104
583	Towards designing artificial neural networks by evolution. <i>Applied Mathematics and Computation</i> , 1998 , 91, 83-90	2.7	104
582	A memetic algorithm for VLSI floorplanning. <i>IEEE Transactions on Systems, Man, and Cybernetics</i> , 2007 , 37, 62-9		104
581	Evolutionary Generative Adversarial Networks. <i>IEEE Transactions on Evolutionary Computation</i> , 2019 , 23, 921-934	15.6	101
580	. <i>IEEE Transactions on Evolutionary Computation</i> , 2019 , 23, 303-315	15.6	99
579	Online Ensemble Learning of Data Streams with Gradually Evolved Classes. <i>IEEE Transactions on Knowledge and Data Engineering</i> , 2016 , 28, 1532-1545	4.2	94
578	An Evolutionary Multiobjective Approach to Sparse Reconstruction. <i>IEEE Transactions on Evolutionary Computation</i> , 2014 , 18, 827-845	15.6	93
577	A Systematic Study of Online Class Imbalance Learning With Concept Drift. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 2018 , 29, 4802-4821	10.3	92
576	Short-Term Load Forecasting with Neural Network Ensembles: A Comparative Study [Application Notes]. <i>IEEE Computational Intelligence Magazine</i> , 2011 , 6, 47-56	5.6	91
575	. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2015 , 16, 2997-3016	6.1	89
574	. <i>IEEE Transactions on Evolutionary Computation</i> , 2020 , 24, 201-216	15.6	88
573	Interaction dynamics of neuronal oscillations analysed using wavelet transforms. <i>Journal of Neuroscience Methods</i> , 2007 , 160, 178-85	3	87
572	Corner Sort for Pareto-Based Many-Objective Optimization. <i>IEEE Transactions on Cybernetics</i> , 2014 , 44, 92-102	10.2	85
571	Cooperative Coevolution With Route Distance Grouping for Large-Scale Capacitated Arc Routing Problems. <i>IEEE Transactions on Evolutionary Computation</i> , 2014 , 18, 435-449	15.6	85
570	Multiobjective Neural Network Ensembles Based on Regularized Negative Correlation Learning. <i>IEEE Transactions on Knowledge and Data Engineering</i> , 2010 , 22, 1738-1751	4.2	85

569	Thermodynamic Pareto optimization of turbojet engines using multi-objective genetic algorithms. <i>International Journal of Thermal Sciences</i> , 2005 , 44, 1061-1071	4.1	84
568	Scalability of generalized adaptive differential evolution for large-scale continuous optimization. <i>Soft Computing</i> , 2011 , 15, 2141-2155	3.5	82
567	Evolving artificial neural network ensembles. <i>IEEE Computational Intelligence Magazine</i> , 2008 , 3, 31-42	5.6	81
566	A new adaptive merging and growing algorithm for designing artificial neural networks. <i>IEEE Transactions on Systems, Man, and Cybernetics</i> , 2009 , 39, 705-22		80
565	Ensembles and locality: Insight on improving software effort estimation. <i>Information and Software Technology</i> , 2013 , 55, 1512-1528	3.4	79
564	Accelerating Large-Scale Multiobjective Optimization via Problem Reformulation. <i>IEEE Transactions on Evolutionary Computation</i> , 2019 , 23, 949-961	15.6	78
563	A novel evolutionary algorithm for determining unified creep damage constitutive equations. <i>International Journal of Mechanical Sciences</i> , 2002 , 44, 987-1002	5.5	77
562	A framework for finding robust optimal solutions over time. <i>Memetic Computing</i> , 2013 , 5, 3-18	3.4	76
561	Relationships between Diversity of Classification Ensembles and Single-Class Performance Measures. <i>IEEE Transactions on Knowledge and Data Engineering</i> , 2013 , 25, 206-219	4.2	76
560	Regularized negative correlation learning for neural network ensembles. <i>IEEE Transactions on Neural Networks</i> , 2009 , 20, 1962-79		76
559	Probabilistic classification vector machines. <i>IEEE Transactions on Neural Networks</i> , 2009 , 20, 901-14		75
558	A large population size can be unhelpful in evolutionary algorithms. <i>Theoretical Computer Science</i> , 2012 , 436, 54-70	1.1	74
557	Empirical analysis of evolutionary algorithms with immigrants schemes for dynamic optimization. <i>Memetic Computing</i> , 2009 , 1, 3-24	3.4	74
556	An evolutionary clustering algorithm for gene expression microarray data analysis. <i>IEEE Transactions on Evolutionary Computation</i> , 2006 , 10, 296-314	15.6	73
555	An evolutionary approach to materialized views selection in a data warehouse environment. <i>IEEE Transactions on Systems, Man and Cybernetics, Part C: Applications and Reviews</i> , 2001 , 31, 282-294		72
554	Continuous Dynamic Constrained Optimization—The Challenges. <i>IEEE Transactions on Evolutionary Computation</i> , 2012 , 16, 769-786	15.6	71
553	. <i>IEEE Transactions on Reliability</i> , 2015 , 64, 234-246	4.6	70
552	Speciation as automatic categorical modularization. <i>IEEE Transactions on Evolutionary Computation</i> , 1997 , 1, 101-108	15.6	70

551	Predictive Ensemble Pruning by Expectation Propagation. <i>IEEE Transactions on Knowledge and Data Engineering</i> , 2009 , 21, 999-1013	4.2	68
550	Efficient Resource Allocation in Cooperative Co-Evolution for Large-Scale Global Optimization. <i>IEEE Transactions on Evolutionary Computation</i> , 2017 , 21, 493-505	15.6	66
549	Learning in the model space for cognitive fault diagnosis. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 2014 , 25, 124-36	10.3	66
548	Search based software testing of object-oriented containers. <i>Information Sciences</i> , 2008 , 178, 3075-3095	7.7	66
547	Tackling high dimensional nonseparable optimization problems by cooperatively coevolving particle swarms 2009 ,		65
546	Analysis of Computational Time of Simple Estimation of Distribution Algorithms. <i>IEEE Transactions on Evolutionary Computation</i> , 2010 , 14, 1-22	15.6	64
545	Recent Advances in Evolutionary Computation. <i>Journal of Computer Science and Technology</i> , 2006 , 21, 1-18	1.7	64
544	Behavioral diversity, choices and noise in the iterated prisoner's dilemma. <i>IEEE Transactions on Evolutionary Computation</i> , 2005 , 9, 540-551	15.6	64
543	Dynamical characteristics of pre-epileptic seizures in rats with recurrence quantification analysis. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2004 , 333, 164-171	2.3	64
542	Materialized view selection as constrained evolutionary optimization. <i>IEEE Transactions on Systems, Man and Cybernetics, Part C: Applications and Reviews</i> , 2003 , 33, 458-467		64
541	Linear dimensionality reduction using relevance weighted LDA. <i>Pattern Recognition</i> , 2005 , 38, 485-493	7.7	64
540	Evolutionary path control strategy for solving many-objective optimization problem. <i>IEEE Transactions on Cybernetics</i> , 2015 , 45, 702-15	10.2	63
539	Neural-Based Learning Classifier Systems. <i>IEEE Transactions on Knowledge and Data Engineering</i> , 2008 , 20, 26-39	4.2	63
538	Synchronization measurement of multiple neuronal populations. <i>Journal of Neurophysiology</i> , 2007 , 98, 3341-8	3.2	63
537	Dynamic Multiobjectives Optimization With a Changing Number of Objectives. <i>IEEE Transactions on Evolutionary Computation</i> , 2018 , 22, 157-171	15.6	62
536	2009 ,		62
535	Scaling Up Estimation of Distribution Algorithms for Continuous Optimization. <i>IEEE Transactions on Evolutionary Computation</i> , 2013 , 17, 797-822	15.6	61
534	Multi-Objective Approaches to Optimal Testing Resource Allocation in Modular Software Systems. <i>IEEE Transactions on Reliability</i> , 2010 , 59, 563-575	4.6	61

533	. <i>IEEE Transactions on Evolutionary Computation</i> , 2015 , 19, 188-200	15.6	60
532	Evolutionary Multiobjective Optimization-Based Multimodal Optimization: Fitness Landscape Approximation and Peak Detection. <i>IEEE Transactions on Evolutionary Computation</i> , 2018 , 22, 692-706	15.6	60
531	Reusing Genetic Programming for Ensemble Selection in Classification of Unbalanced Data. <i>IEEE Transactions on Evolutionary Computation</i> , 2014 , 18, 893-908	15.6	60
530	Fractal spectral analysis of pre-epileptic seizures in terms of criticality. <i>Journal of Neural Engineering</i> , 2005 , 2, 11-6	5	60
529	A Survey of Self-Awareness and Its Application in Computing Systems 2011 ,		59
528	Self-adaptive differential evolution with neighborhood search 2008 ,		59
527	Gene selection algorithms for microarray data based on least squares support vector machine. <i>BMC Bioinformatics</i> , 2006 , 7, 95	3.6	59
526	Bagging and boosting negatively correlated neural networks. <i>IEEE Transactions on Systems, Man, and Cybernetics</i> , 2008 , 38, 771-84		58
525	Making a Difference to Differential Evolution 2007 , 397-414		58
524	Evolutionary Computation: Theory and Applications 1999 ,		57
523	How to Read Many-Objective Solution Sets in Parallel Coordinates [Educational Forum]. <i>IEEE Computational Intelligence Magazine</i> , 2017 , 12, 88-100	5.6	56
522	Analysis of the $\$(1+1)\$$ -EA for Finding Approximate Solutions to Vertex Cover Problems. <i>IEEE Transactions on Evolutionary Computation</i> , 2009 , 13, 1006-1029	15.6	56
521	Smart use of computational resources based on contribution for cooperative co-evolutionary algorithms 2011 ,		56
520	Metaheuristics for agricultural land use optimization. A review. <i>Agronomy for Sustainable Development</i> , 2015 , 35, 975-998	6.8	55
519	Turning High-Dimensional Optimization Into Computationally Expensive Optimization. <i>IEEE Transactions on Evolutionary Computation</i> , 2018 , 22, 143-156	15.6	55
518	Universal multi-objective function for optimising superplastic-damage constitutive equations. <i>Journal of Materials Processing Technology</i> , 2002 , 125-126, 199-205	5.3	55
517	Inverse modelling of multi-objective thermodynamically optimized turbojet engines using GMDH-type neural networks and evolutionary algorithms. <i>Engineering Optimization</i> , 2005 , 37, 437-462	2	54
516	A new simulated annealing algorithm. <i>International Journal of Computer Mathematics</i> , 1995 , 56, 161-168	1.2	54

515	Robust Online Time Series Prediction with Recurrent Neural Networks 2016 ,		54
514	Software effort estimation as a multiobjective learning problem. <i>ACM Transactions on Software Engineering and Methodology</i> , 2013 , 22, 1-32	3.3	53
513	A note on problem difficulty measures in black-box optimization: classification, realizations and predictability. <i>Evolutionary Computation</i> , 2007 , 15, 435-43	4.3	53
512	A hybrid Hopfield network-genetic algorithm approach for the terminal assignment problem. <i>IEEE Transactions on Systems, Man, and Cybernetics</i> , 2004 , 34, 2343-53		53
511	Negatively Correlated Search. <i>IEEE Journal on Selected Areas in Communications</i> , 2016 , 34, 542-550	14.2	53
510	Meta-Heuristic Algorithms in Car Engine Design: A Literature Survey. <i>IEEE Transactions on Evolutionary Computation</i> , 2015 , 19, 609-629	15.6	52
509	An empirical study of genetic operators in genetic algorithms. <i>Microprocessing and Microprogramming</i> , 1993 , 38, 707-714		52
508	Evolutionary Optimization. <i>Profiles in Operations Research</i> , 2002 ,	1	52
507	A Memetic Algorithm for Periodic Capacitated Arc Routing Problem. <i>IEEE Transactions on Systems, Man, and Cybernetics</i> , 2011 , 41, 1654-67		51
506	A New Multi-objective Evolutionary Optimisation Algorithm: The Two-Archive Algorithm 2006 ,		51
505	A new evolutionary approach to cutting stock problems with and without contiguity. <i>Computers and Operations Research</i> , 2002 , 29, 1641-1659	4.6	51
504	Simulated annealing with extended neighbourhood. <i>International Journal of Computer Mathematics</i> , 1991 , 40, 169-189	1.2	51
503	Population-based Algorithm Portfolios with automated constituent algorithms selection. <i>Information Sciences</i> , 2014 , 279, 94-104	7.7	49
502	Dynamic combinatorial optimisation problems: an analysis of the subset sum problem. <i>Soft Computing</i> , 2011 , 15, 1723-1734	3.5	49
501	Static, Dynamic, and Adaptive Heterogeneity in Distributed Smart Camera Networks. <i>ACM Transactions on Autonomous and Adaptive Systems</i> , 2015 , 10, 1-30	1.2	48
500	Negative correlation learning for classification ensembles 2010 ,		48
499	Clustering and learning Gaussian distribution for continuous optimization. <i>IEEE Transactions on Systems, Man and Cybernetics, Part C: Applications and Reviews</i> , 2005 , 35, 195-204		48
498	A Scalable Indicator-Based Evolutionary Algorithm for Large-Scale Multiobjective Optimization. <i>IEEE Transactions on Evolutionary Computation</i> , 2019 , 23, 525-537	15.6	47

497	Unified eigen analysis on multivariate Gaussian based estimation of distribution algorithms. <i>Information Sciences</i> , 2008 , 178, 3000-3023	7.7	46
496	Robust route optimization for gritting/salting trucks: a CERCIA experience. <i>IEEE Computational Intelligence Magazine</i> , 2006 , 1, 6-9	5.6	46
495	Benchmarking Optimization Algorithms: An Open Source Framework for the Traveling Salesman Problem. <i>IEEE Computational Intelligence Magazine</i> , 2014 , 9, 40-52	5.6	45
494	Model-based kernel for efficient time series analysis 2013 ,		45
493	A new approach for analyzing average time complexity of population-based evolutionary algorithms on unimodal problems. <i>IEEE Transactions on Systems, Man, and Cybernetics</i> , 2009 , 39, 1092-106		45
492	Differential evolution for high-dimensional function optimization 2007 ,		45
491	A learning framework for online class imbalance learning 2013 ,		44
490	The impact of parameter tuning on software effort estimation using learning machines 2013 ,		44
489	A Hybrid Ant Colony Optimization Algorithm for the Extended Capacitated Arc Routing Problem. <i>IEEE Transactions on Systems, Man, and Cybernetics</i> , 2011 , 41, 1110-23		44
488	Concept Drift Adaptation by Exploiting Historical Knowledge. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 2018 , 29, 4822-4832	10.3	43
487	On the Impact of Mutation-Selection Balance on the Runtime of Evolutionary Algorithms. <i>IEEE Transactions on Evolutionary Computation</i> , 2012 , 16, 225-241	15.6	43
486	Dynamic adaptive search based software engineering 2012 ,		43
485	Dynamic evolutionary optimisation 2009 ,		43
484	A global repair operator for capacitated arc routing problem. <i>IEEE Transactions on Systems, Man, and Cybernetics</i> , 2009 , 39, 723-34		43
483	Multilevel cooperative coevolution for large scale optimization 2008 ,		43
482	Multiple Choices and Reputation in Multiagent Interactions. <i>IEEE Transactions on Evolutionary Computation</i> , 2007 , 11, 689-711	15.6	43
481	Objective reduction based on nonlinear correlation information entropy. <i>Soft Computing</i> , 2016 , 20, 2393-2407	3.5	42
480	CO-EVOLUTION IN ITERATED PRISONER'S DILEMMA WITH INTERMEDIATE LEVELS OF COOPERATION: APPLICATION TO MISSILE DEFENSE. <i>International Journal of Computational Intelligence and Applications</i> , 2002 , 02, 83-107	1.2	42

479	A Survey and Taxonomy of Self-Aware and Self-Adaptive Cloud Autoscaling Systems. <i>ACM Computing Surveys</i> , 2018 , 51, 1-40	13.4	40
478	Architectural Aspects of Self-Aware and Self-Expressive Computing Systems: From Psychology to Engineering. <i>Computer</i> , 2015 , 48, 62-70	1.6	39
477	Model-based evolutionary algorithms: a short survey. <i>Complex & Intelligent Systems</i> , 2018 , 4, 283-292	7.1	39
476	Socio-economic vision graph generation and handover in distributed smart camera networks. <i>ACM Transactions on Sensor Networks</i> , 2014 , 10, 1-24	2.9	39
475	On the approximation ability of evolutionary optimization with application to minimum set cover. <i>Artificial Intelligence</i> , 2012 , 180-181, 20-33	3.6	39
474	Performance of infeasibility driven evolutionary algorithm (IDEA) on constrained dynamic single objective optimization problems 2009 ,		39
473	An Evolutionary Approach to the Multidepot Capacitated Arc Routing Problem. <i>IEEE Transactions on Evolutionary Computation</i> , 2010 , 14, 356-374	15.6	39
472	Fast evolution strategies. <i>Lecture Notes in Computer Science</i> , 1997 , 149-161	0.9	39
471	Multi-objective Improvement of Software Using Co-evolution and Smart Seeding. <i>Lecture Notes in Computer Science</i> , 2008 , 61-70	0.9	39
470	Measuring Generalization Performance in Coevolutionary Learning. <i>IEEE Transactions on Evolutionary Computation</i> , 2008 , 12, 479-505	15.6	39
469	. <i>IEEE Transactions on Evolutionary Computation</i> , 2016 , 20, 96-109	15.6	38
468	Semisupervised classification with cluster regularization. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 2012 , 23, 1779-92	10.3	38
467	Fast Evolutionary Algorithms. <i>Natural Computing Series</i> , 2003 , 45-94	2.5	38
466	A clustering-ranking method for many-objective optimization. <i>Applied Soft Computing Journal</i> , 2015 , 35, 681-694	7.5	37
465	Graph-Based Approaches for Over-Sampling in the Context of Ordinal Regression. <i>IEEE Transactions on Knowledge and Data Engineering</i> , 2015 , 27, 1233-1245	4.2	37
464	R-Metric: Evaluating the Performance of Preference-Based Evolutionary Multiobjective Optimization Using Reference Points. <i>IEEE Transactions on Evolutionary Computation</i> , 2018 , 22, 821-835	15.6	37
463	Multiline Distance Minimization: A Visualized Many-Objective Test Problem Suite. <i>IEEE Transactions on Evolutionary Computation</i> , 2018 , 22, 61-78	15.6	37
462	A new self-adaptation scheme for differential evolution. <i>Neurocomputing</i> , 2014 , 146, 2-16	5.4	37

461	A new constructive algorithm for architectural and functional adaptation of artificial neural networks. <i>IEEE Transactions on Systems, Man, and Cybernetics</i> , 2009 , 39, 1590-605		37
460	Hybrid meta-heuristics algorithms for task assignment in heterogeneous computing systems. <i>Computers and Operations Research</i> , 2006 , 33, 820-835	4.6	37
459	How well do multi-objective evolutionary algorithms scale to large problems 2007 ,		37
458	Benchmarking and solving dynamic constrained problems 2009 ,		36
457	Cognitive fault diagnosis in Tennessee Eastman Process using learning in the model space. <i>Computers and Chemical Engineering</i> , 2014 , 67, 33-42	4	35
456	How to make best use of cross-company data in software effort estimation? 2014 ,		35
455	Concept drift detection for online class imbalance learning 2013 ,		35
454	Robust optimization over time □ A new perspective on dynamic optimization problems 2010 ,		35
453	A multi-objective approach to Redundancy Allocation Problem in parallel-series systems 2009 ,		35
452	An experimental study of hybridizing cultural algorithms and local search. <i>International Journal of Neural Systems</i> , 2008 , 18, 1-17	6.2	35
451	Multi-scale statistical process monitoring in machining. <i>IEEE Transactions on Industrial Electronics</i> , 2005 , 52, 924-927	8.9	35
450	The GRD chip: genetic reconfiguration of DSPs for neural network processing. <i>IEEE Transactions on Computers</i> , 1999 , 48, 628-639	2.5	35
449	Improving Generalization Performance in Co-Evolutionary Learning. <i>IEEE Transactions on Evolutionary Computation</i> , 2012 , 16, 70-85	15.6	34
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