

Hisao Ishibuchi

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596
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ext. papers

27,972
ext. citations

5
avg, IF

7.71
L-index

#	Paper	IF	Citations
596	Learning from Imbalanced Data. <i>IEEE Transactions on Knowledge and Data Engineering</i> , 2009 , 21, 1263-1284	14.4	3859
595	A multi-objective genetic local search algorithm and its application to flowshop scheduling. <i>IEEE Transactions on Systems, Man and Cybernetics, Part C: Applications and Reviews</i> , 1998 , 28, 392-403		652
594	Balance between genetic search and local search in memetic algorithms for multiobjective permutation flowshop scheduling. <i>IEEE Transactions on Evolutionary Computation</i> , 2003 , 7, 204-223	15.6	563
593	. <i>IEEE Transactions on Fuzzy Systems</i> , 1995 , 3, 260-270	8.3	504
592	Multiobjective programming in optimization of the interval objective function. <i>European Journal of Operational Research</i> , 1990 , 48, 219-225	5.6	499
591	Distributed representation of fuzzy rules and its application to pattern classification. <i>Fuzzy Sets and Systems</i> , 1992 , 52, 21-32	3.7	364
590	Multi-objective genetic algorithm and its applications to flowshop scheduling. <i>Computers and Industrial Engineering</i> , 1996 , 30, 957-968	6.4	327
589	Performance evaluation of fuzzy classifier systems for multidimensional pattern classification problems. <i>IEEE Transactions on Systems, Man, and Cybernetics</i> , 1999 , 29, 601-18		320
588	Rule weight specification in fuzzy rule-based classification systems. <i>IEEE Transactions on Fuzzy Systems</i> , 2005 , 13, 428-435	8.3	310
587	Effect of rule weights in fuzzy rule-based classification systems. <i>IEEE Transactions on Fuzzy Systems</i> , 2001 , 9, 506-515	8.3	306
586	Performance of Decomposition-Based Many-Objective Algorithms Strongly Depends on Pareto Front Shapes. <i>IEEE Transactions on Evolutionary Computation</i> , 2017 , 21, 169-190	15.6	301
585	Evolutionary many-objective optimization: A short review 2008 ,		301
584	Fuzzy rule selection by multi-objective genetic local search algorithms and rule evaluation measures in data mining. <i>Fuzzy Sets and Systems</i> , 2004 , 141, 59-88	3.7	296
583	Single-objective and two-objective genetic algorithms for selecting linguistic rules for pattern classification problems. <i>Fuzzy Sets and Systems</i> , 1997 , 89, 135-150	3.7	290
582	Analysis of interpretability-accuracy tradeoff of fuzzy systems by multiobjective fuzzy genetics-based machine learning. <i>International Journal of Approximate Reasoning</i> , 2007 , 44, 4-31	3.6	279
581	Genetic algorithms for flowshop scheduling problems. <i>Computers and Industrial Engineering</i> , 1996 , 30, 1061-1071	6.4	261
580	A simple but powerful heuristic method for generating fuzzy rules from numerical data. <i>Fuzzy Sets and Systems</i> , 1997 , 86, 251-270	3.7	238

579	. <i>IEEE Transactions on Fuzzy Systems</i> , 2013 , 21, 45-65	8.3	233
578	Behavior of Multiobjective Evolutionary Algorithms on Many-Objective Knapsack Problems. <i>IEEE Transactions on Evolutionary Computation</i> , 2015 , 19, 264-283	15.6	230
577	Cyber-physical attacks and defences in the smart grid: a survey. <i>IET Cyber-Physical Systems: Theory and Applications</i> , 2016 , 1, 13-27	2.5	221
576	Three-objective genetics-based machine learning for linguistic rule extraction. <i>Information Sciences</i> , 2001 , 136, 109-133	7.7	213
575	Incorporating Intelligence in Fog Computing for Big Data Analysis in Smart Cities. <i>IEEE Transactions on Industrial Informatics</i> , 2017 , 13, 2140-2150	11.9	201
574	ADASYN: Adaptive synthetic sampling approach for imbalanced learning 2008 ,		199
573	. <i>IEEE Transactions on Fuzzy Systems</i> , 1993 , 1, 85-97	8.3	194
572	Hybridization of fuzzy GBML approaches for pattern classification problems. <i>IEEE Transactions on Systems, Man, and Cybernetics</i> , 2005 , 35, 359-65		177
571	Voting in fuzzy rule-based systems for pattern classification problems. <i>Fuzzy Sets and Systems</i> , 1999 , 103, 223-238	3.7	177
570	Localized Weighted Sum Method for Many-Objective Optimization. <i>IEEE Transactions on Evolutionary Computation</i> , 2018 , 22, 3-18	15.6	169
569	Adaptive fuzzy rule-based classification systems. <i>IEEE Transactions on Fuzzy Systems</i> , 1996 , 4, 238-250	8.3	169
568	Stacked Multilevel-Denoising Autoencoders: A New Representation Learning Approach for Wind Turbine Gearbox Fault Diagnosis. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2017 , 66, 2391-2402	5.2	165
567	Construction of fuzzy classification systems with rectangular fuzzy rules using genetic algorithms. <i>Fuzzy Sets and Systems</i> , 1994 , 65, 237-253	3.7	136
566	A learning algorithm of fuzzy neural networks with triangular fuzzy weights. <i>Fuzzy Sets and Systems</i> , 1995 , 71, 277-293	3.7	134
565	Modified simulated annealing algorithms for the flow shop sequencing problem. <i>European Journal of Operational Research</i> , 1995 , 81, 388-398	5.6	132
564	Toward Optimal Feature Selection in Naive Bayes for Text Categorization. <i>IEEE Transactions on Knowledge and Data Engineering</i> , 2016 , 28, 2508-2521	4.2	132
563	Identification of possibilistic linear systems by quadratic membership functions of fuzzy parameters. <i>Fuzzy Sets and Systems</i> , 1991 , 41, 145-160	3.7	123
562	Q-Learning-Based Vulnerability Analysis of Smart Grid Against Sequential Topology Attacks. <i>IEEE Transactions on Information Forensics and Security</i> , 2017 , 12, 200-210	8	122

561	Modified Distance Calculation in Generational Distance and Inverted Generational Distance. <i>Lecture Notes in Computer Science</i> , 2015 , 110-125	0.9	121
560	Power System Stability Control for a Wind Farm Based on Adaptive Dynamic Programming. <i>IEEE Transactions on Smart Grid</i> , 2015 , 6, 166-177	10.7	117
559	Event-Triggered Optimal Control for Partially Unknown Constrained-Input Systems via Adaptive Dynamic Programming. <i>IEEE Transactions on Industrial Electronics</i> , 2017 , 64, 4101-4109	8.9	116
558	Evolutionary many-objective optimization 2008 ,		114
557	Cascading Failure Analysis With DC Power Flow Model and Transient Stability Analysis. <i>IEEE Transactions on Power Systems</i> , 2015 , 30, 285-297	7	112
556	Stochastic Optimization of Economic Dispatch for Microgrid Based on Approximate Dynamic Programming. <i>IEEE Transactions on Smart Grid</i> , 2019 , 10, 2440-2452	10.7	105
555	An Event-Triggered Approach for Load Frequency Control With Supplementary ADP. <i>IEEE Transactions on Power Systems</i> , 2017 , 32, 581-589	7	104
554	Energy-Storage-Based Low-Frequency Oscillation Damping Control Using Particle Swarm Optimization and Heuristic Dynamic Programming. <i>IEEE Transactions on Power Systems</i> , 2014 , 29, 2539-2548	7	101
553	Specification of Genetic Search Directions in Cellular Multi-objective Genetic Algorithms. <i>Lecture Notes in Computer Science</i> , 2001 , 82-95	0.9	101
552	Fuzzy regression analysis using neural networks. <i>Fuzzy Sets and Systems</i> , 1992 , 50, 257-265	3.7	101
551	Improved Sliding Mode Design for Load Frequency Control of Power System Integrated an Adaptive Learning Strategy. <i>IEEE Transactions on Industrial Electronics</i> , 2017 , 64, 6742-6751	8.9	100
550	Genetic algorithms and neighborhood search algorithms for fuzzy flowshop scheduling problems. <i>Fuzzy Sets and Systems</i> , 1994 , 67, 81-100	3.7	100
549	Revealing cascading failure vulnerability in power grids using risk-graph. <i>IEEE Transactions on Parallel and Distributed Systems</i> , 2014 , 25, 3274-3284	3.7	99
548	Optimized Control of DFIG-Based Wind Generation Using Sensitivity Analysis and Particle Swarm Optimization. <i>IEEE Transactions on Smart Grid</i> , 2013 , 4, 509-520	10.7	92
547	Towards incremental learning of nonstationary imbalanced data stream: a multiple selectively recursive approach. <i>Evolving Systems</i> , 2011 , 2, 35-50	2.1	90
546	An architecture of neural networks with interval weights and its application to fuzzy regression analysis. <i>Fuzzy Sets and Systems</i> , 1993 , 57, 27-39	3.7	90
545	Fuzzy regression using asymmetric fuzzy coefficients and fuzzified neural networks. <i>Fuzzy Sets and Systems</i> , 2001 , 119, 273-290	3.7	89
544	A Novel Energy Function-Based Stability Evaluation and Nonlinear Control Approach for Energy Internet. <i>IEEE Transactions on Smart Grid</i> , 2017 , 8, 1195-1210	10.7	88

543	A Framework for Large-Scale Multiobjective Optimization Based on Problem Transformation. <i>IEEE Transactions on Evolutionary Computation</i> , 2018 , 22, 260-275	15.6	86
542	Evolutionary many-objective optimization by NSGA-II and MOEA/D with large populations 2009 ,		85
541	Improving the performance of fuzzy classifier systems for pattern classification problems with continuous attributes. <i>IEEE Transactions on Industrial Electronics</i> , 1999 , 46, 1057-1068	8.9	84
540	Evolutionary Many-Objective Optimization: A Comparative Study of the State-of-the-Art. <i>IEEE Access</i> , 2018 , 6, 26194-26214	3.5	83
539	Incremental learning from stream data. <i>IEEE Transactions on Neural Networks</i> , 2011 , 22, 1901-14		83
538	Resilience Analysis of Power Grids Under the Sequential Attack. <i>IEEE Transactions on Information Forensics and Security</i> , 2014 , 9, 2340-2354	8	82
537	An empirical study on similarity-based mating for evolutionary multiobjective combinatorial optimization. <i>European Journal of Operational Research</i> , 2008 , 188, 57-75	5.6	82
536	How to Specify a Reference Point in Hypervolume Calculation for Fair Performance Comparison. <i>Evolutionary Computation</i> , 2018 , 26, 411-440	4.3	80
535	Dynamic Energy Management of a Microgrid Using Approximate Dynamic Programming and Deep Recurrent Neural Network Learning. <i>IEEE Transactions on Smart Grid</i> , 2019 , 10, 4435-4445	10.7	79
534	Exponential possibility regression analysis. <i>Fuzzy Sets and Systems</i> , 1995 , 69, 305-318	3.7	79
533	Efficient fuzzy partition of pattern space for classification problems. <i>Fuzzy Sets and Systems</i> , 1993 , 59, 295-304	3.7	79
532	Class Imbalance Learning Methods for Support Vector Machines 2013 , 83-99		77
531	Behavior of Evolutionary Many-Objective Optimization 2008 ,		77
530	Integrated Security Analysis on Cascading Failure in Complex Networks. <i>IEEE Transactions on Information Forensics and Security</i> , 2014 , 9, 451-463	8	76
529	Event-Driven Adaptive Robust Control of Nonlinear Systems With Uncertainties Through NDP Strategy. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , 2017 , 47, 1358-1370	7.3	75
528	Real-Time Demand Side Management for a Microgrid Considering Uncertainties. <i>IEEE Transactions on Smart Grid</i> , 2018 , 1-1	10.7	75
527	Multitask TSK fuzzy system modeling by mining intertask common hidden structure. <i>IEEE Transactions on Cybernetics</i> , 2015 , 45, 548-61	10.2	74
526	Load Frequency Control in Isolated Micro-Grids with Electrical Vehicles Based on Multivariable Generalized Predictive Theory. <i>Energies</i> , 2015 , 8, 2145-2164	3.1	73

525	Simultaneous use of different scalarizing functions in MOEA/D 2010 ,		73
524	Reference Point Specification in Inverted Generational Distance for Triangular Linear Pareto Front. <i>IEEE Transactions on Evolutionary Computation</i> , 2018 , 22, 961-975	15.6	70
523	Deep Takagi-Flugeno-Kang Fuzzy Classifier With Shared Linguistic Fuzzy Rules. <i>IEEE Transactions on Fuzzy Systems</i> , 2018 , 26, 1535-1549	8.3	70
522	Evolution of iterated prisoner's dilemma game strategies in structured demes under random pairing in game playing. <i>IEEE Transactions on Evolutionary Computation</i> , 2005 , 9, 552-561	15.6	69
521	Distributive Dynamic Spectrum Access Through Deep Reinforcement Learning: A Reservoir Computing-Based Approach. <i>IEEE Internet of Things Journal</i> , 2019 , 6, 1938-1948	10.7	68
520	Multiobjective genetic fuzzy rule selection of single granularity-based fuzzy classification rules and its interaction with the lateral tuning of membership functions. <i>Soft Computing</i> , 2011 , 15, 2303-2318	3.5	66
519	Local search algorithms for flow shop scheduling with fuzzy due-dates. <i>International Journal of Production Economics</i> , 1994 , 33, 53-66	9.3	66
518	Intelligent Optimal Control With Critic Learning for a Nonlinear Overhead Crane System. <i>IEEE Transactions on Industrial Informatics</i> , 2018 , 14, 2932-2940	11.9	65
517	Transfer Prototype-Based Fuzzy Clustering. <i>IEEE Transactions on Fuzzy Systems</i> , 2016 , 24, 1210-1232	8.3	64
516	A Hierarchical Deep Domain Adaptation Approach for Fault Diagnosis of Power Plant Thermal System. <i>IEEE Transactions on Industrial Informatics</i> , 2019 , 15, 5139-5148	11.9	63
515	Adaptation of Scalarizing Functions in MOEA/D: An Adaptive Scalarizing Function-Based Multiobjective Evolutionary Algorithm. <i>Lecture Notes in Computer Science</i> , 2009 , 438-452	0.9	63
514	Optimal Real-Time Operation Strategy for Microgrid: An ADP-Based Stochastic Nonlinear Optimization Approach. <i>IEEE Transactions on Sustainable Energy</i> , 2019 , 10, 931-942	8.2	62
513	A Review of Evolutionary Multimodal Multiobjective Optimization. <i>IEEE Transactions on Evolutionary Computation</i> , 2020 , 24, 193-200	15.6	61
512	Pareto Fronts of Many-Objective Degenerate Test Problems. <i>IEEE Transactions on Evolutionary Computation</i> , 2016 , 20, 807-813	15.6	60
511	Diversity Improvement by Non-Geometric Binary Crossover in Evolutionary Multiobjective Optimization. <i>IEEE Transactions on Evolutionary Computation</i> , 2010 , 14, 985-998	15.6	60
510	Knowledge-Leverage-Based Fuzzy System and Its Modeling. <i>IEEE Transactions on Fuzzy Systems</i> , 2013 , 21, 597-609	8.3	59
509	Learning by fuzzified neural networks. <i>International Journal of Approximate Reasoning</i> , 1995 , 13, 327-358	3.6	59
508	Adaptive Supplementary Damping Control of VSC-HVDC for Interarea Oscillation Using GrHDP. <i>IEEE Transactions on Power Systems</i> , 2018 , 33, 1777-1789	7	58

507	Resilient Wide-Area Damping Control Using GrHDP to Tolerate Communication Failures. <i>IEEE Transactions on Smart Grid</i> , 2019 , 10, 2547-2557	10.7	57
506	On the use of two reference points in decomposition based multiobjective evolutionary algorithms. <i>Swarm and Evolutionary Computation</i> , 2017 , 34, 89-102	9.8	55
505	Many-Objective Test Problems to Visually Examine the Behavior of Multiobjective Evolution in a Decision Space 2010 , 91-100		55
504	Dynamic Behavior of Terminal Sliding Mode Control. <i>IEEE Transactions on Industrial Electronics</i> , 2018 , 65, 3480-3490	8.9	54
503	SERA: Selectively recursive approach towards nonstationary imbalanced stream data mining 2009 ,		54
502	Empirical study on learning in fuzzy systems by rice taste analysis. <i>Fuzzy Sets and Systems</i> , 1994 , 64, 129-144	3.4	54
501	Intelligent Critic Control With Disturbance Attenuation for Affine Dynamics Including an Application to a Microgrid System. <i>IEEE Transactions on Industrial Electronics</i> , 2017 , 64, 4935-4944	8.9	53
500	On the effect of reference point in MOEA/D for multi-objective optimization. <i>Applied Soft Computing Journal</i> , 2017 , 58, 25-34	7.5	52
499	Adaptive wide-area power oscillation damper design for photovoltaic plant considering delay compensation. <i>IET Generation, Transmission and Distribution</i> , 2017 , 11, 4511-4519	2.5	52
498	Multi-Contingency Cascading Analysis of Smart Grid Based on Self-Organizing Map. <i>IEEE Transactions on Information Forensics and Security</i> , 2013 , 8, 646-656	8	52
497	Effectiveness of scalability improvement attempts on the performance of NSGA-II for many-objective problems 2008 ,		52
496	Interactive Multiobjective Optimization: A Review of the State-of-the-Art. <i>IEEE Access</i> , 2018 , 6, 41256-41339	3.9	50
495	Fuzzy data mining: effect of fuzzy discretization		50
494	An easy-to-use real-world multi-objective optimization problem suite. <i>Applied Soft Computing Journal</i> , 2020 , 89, 106078	7.5	49
493	A weighted fuzzy classifier and its application to image processing tasks. <i>Fuzzy Sets and Systems</i> , 2007 , 158, 284-294	3.7	49
492	Optimization of Scalarizing Functions Through Evolutionary Multiobjective Optimization 2007 , 51-65		48
491	Interpolation of fuzzy if-then rules by neural networks. <i>International Journal of Approximate Reasoning</i> , 1994 , 10, 3-27	3.6	48
490	Numerical analysis of the learning of fuzzified neural networks from fuzzy if-then rules. <i>Fuzzy Sets and Systems</i> , 2001 , 120, 281-307	3.7	47

489	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
488	Global Synchronization of Fuzzy Memristive Neural Networks With Discrete and Distributed Delays. <i>IEEE Transactions on Fuzzy Systems</i> , 2020 , 28, 2022-2034	8.3	47
487	Multi-clustering via evolutionary multi-objective optimization. <i>Information Sciences</i> , 2018 , 450, 128-140	7.7	46
486	Parameterized Batch Reinforcement Learning for Longitudinal Control of Autonomous Land Vehicles. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , 2019 , 49, 730-741	7.3	46
485	A Novel Framework for Fault Diagnosis Using Kernel Partial Least Squares Based on an Optimal Preference Matrix. <i>IEEE Transactions on Industrial Electronics</i> , 2017 , 64, 4315-4324	8.9	45
484	Kernel-Based Approximate Dynamic Programming for Real-Time Online Learning Control: An Experimental Study. <i>IEEE Transactions on Control Systems Technology</i> , 2014 , 22, 146-156	4.8	45
483	Difficulties in specifying reference points to calculate the inverted generational distance for many-objective optimization problems 2014 ,		44
482	Special Issue on Memetic Algorithms. <i>IEEE Transactions on Systems, Man, and Cybernetics</i> , 2007 , 37, 2-5		44
481	Parallel Distributed Hybrid Fuzzy GBML Models With Rule Set Migration and Training Data Rotation. <i>IEEE Transactions on Fuzzy Systems</i> , 2013 , 21, 355-368	8.3	43
480	Self-learning robust optimal control for continuous-time nonlinear systems with mismatched disturbances. <i>Neural Networks</i> , 2018 , 99, 19-30	9.1	42
479	Adaptive Dynamic Programming for Robust Regulation and Its Application to Power Systems. <i>IEEE Transactions on Industrial Electronics</i> , 2018 , 65, 5722-5732	8.9	42
478	Benchmarking Multi- and Many-Objective Evolutionary Algorithms Under Two Optimization Scenarios. <i>IEEE Access</i> , 2017 , 5, 19597-19619	3.5	42
477	A Survey on the Hypervolume Indicator in Evolutionary Multiobjective Optimization. <i>IEEE Transactions on Evolutionary Computation</i> , 2021 , 25, 1-20	15.6	42
476	A Study on Performance Evaluation Ability of a Modified Inverted Generational Distance Indicator 2015 ,		41
475	Detection of false data attacks in smart grid with supervised learning 2016 ,		41
474	A many-objective test problem for visually examining diversity maintenance behavior in a decision space 2011 ,		40
473	IMORL: incremental multiple-object recognition and localization. <i>IEEE Transactions on Neural Networks</i> , 2008 , 19, 1727-38		40
472	Performance comparison of NSGA-II and NSGA-III on various many-objective test problems 2016 ,		40

471	A Decomposition-Based Evolutionary Algorithm for Multi-modal Multi-objective Optimization. <i>Lecture Notes in Computer Science</i> , 2018 , 249-261	0.9	40
470	Reference point specification in hypervolume calculation for fair comparison and efficient search 2017 ,		39
469	Indicator-based evolutionary algorithm with hypervolume approximation by achievement scalarizing functions 2010 ,		39
468	Comparison of Heuristic Criteria for Fuzzy Rule Selection in Classification Problems. <i>Fuzzy Optimization and Decision Making</i> , 2004 , 3, 119-139	5.1	38
467	Event-Triggered Optimal Neuro-Controller Design With Reinforcement Learning for Unknown Nonlinear Systems. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , 2019 , 49, 1866-1878	7.3	38
466	On Scalable Multiobjective Test Problems With Hardly Dominated Boundaries. <i>IEEE Transactions on Evolutionary Computation</i> , 2019 , 23, 217-231	15.6	37
465	Imbalanced Datasets: From Sampling to Classifiers 2013 , 43-59		37
464	Incorporation of Scalarizing Fitness Functions into Evolutionary Multiobjective Optimization Algorithms. <i>Lecture Notes in Computer Science</i> , 2006 , 493-502	0.9	37
463	On the effect of normalization in MOEA/D for multi-objective and many-objective optimization. <i>Complex & Intelligent Systems</i> , 2017 , 3, 279-294	7.1	36
462	Joint Substation-Transmission Line Vulnerability Assessment Against the Smart Grid. <i>IEEE Transactions on Information Forensics and Security</i> , 2015 , 10, 1010-1024	8	36
461	Fuzzy-Based Goal Representation Adaptive Dynamic Programming. <i>IEEE Transactions on Fuzzy Systems</i> , 2016 , 24, 1159-1175	8.3	35
460	A Double-Niched Evolutionary Algorithm and Its Behavior on Polygon-Based Problems. <i>Lecture Notes in Computer Science</i> , 2018 , 262-273	0.9	35
459	Imbalanced TSK Fuzzy Classifier by Cross-Class Bayesian Fuzzy Clustering and Imbalance Learning. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , 2017 , 47, 2005-2020	7.3	34
458	SOMKE: kernel density estimation over data streams by sequences of self-organizing maps. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 2012 , 23, 1254-68	10.3	34
457	Behavior of EMO algorithms on many-objective optimization problems with correlated objectives 2011 ,		34
456	Cooperative Deterministic Learning-Based Formation Control for a Group of Nonlinear Uncertain Mechanical Systems. <i>IEEE Transactions on Industrial Informatics</i> , 2019 , 15, 319-333	11.9	34
455	Assessment Metrics for Imbalanced Learning 2013 , 187-206		33
454	A niching indicator-based multi-modal many-objective optimizer. <i>Swarm and Evolutionary Computation</i> , 2019 , 49, 134-146	9.8	32

453	Distributed Hybrid Secondary Control for a DC Microgrid via Discrete-Time Interaction. <i>IEEE Transactions on Energy Conversion</i> , 2018 , 33, 1865-1875	5.4	32
452	Optimized Relative Transformation Matrix Using Bacterial Foraging Algorithm for Process Fault Detection. <i>IEEE Transactions on Industrial Electronics</i> , 2016 , 63, 2595-2605	8.9	31
451	Performance evaluation of evolutionary multiobjective optimization algorithms for multiobjective fuzzy genetics-based machine learning. <i>Soft Computing</i> , 2011 , 15, 2415-2434	3.5	31
450	Multiobjective Genetic Fuzzy Systems: Review and Future Research Directions. <i>IEEE International Conference on Fuzzy Systems</i> , 2007 ,		31
449	A Study on the Specification of a Scalarizing Function in MOEA/D for Many-Objective Knapsack Problems. <i>Lecture Notes in Computer Science</i> , 2013 , 231-246	0.9	31
448	Multiple Reference Points-Based Decomposition for Multiobjective Feature Selection in Classification: Static and Dynamic Mechanisms. <i>IEEE Transactions on Evolutionary Computation</i> , 2020 , 24, 170-184	15.6	31
447	Adaptive dynamic programming for robust neural control of unknown continuous-time non-linear systems. <i>IET Control Theory and Applications</i> , 2017 , 11, 2307-2316	2.5	30
446	Event-triggered reinforcement learning approach for unknown nonlinear continuous-time system 2014 ,		30
445	Parallel distributed genetic fuzzy rule selection. <i>Soft Computing</i> , 2009 , 13, 511-519	3.5	30
444	. <i>IEEE Transactions on Evolutionary Computation</i> , 2018 , 22, 866-878	15.6	30
443	Learning to Navigate Through Complex Dynamic Environment With Modular Deep Reinforcement Learning. <i>IEEE Transactions on Games</i> , 2018 , 10, 400-412	1.2	30
442	A New Hypervolume-Based Evolutionary Algorithm for Many-Objective Optimization. <i>IEEE Transactions on Evolutionary Computation</i> , 2020 , 24, 839-852	15.6	29
441	Interactive Energy Management for Enhancing Power Balances in Multi-Microgrids. <i>IEEE Transactions on Smart Grid</i> , 2019 , 10, 6055-6069	10.7	28
440	Sparse-Representation-Based Classification with Structure-Preserving Dimension Reduction. <i>Cognitive Computation</i> , 2014 , 6, 608-621	4.4	28
439	Imbalanced evolving self-organizing learning. <i>Neurocomputing</i> , 2014 , 133, 258-270	5.4	28
438	Evolutionary multiobjective optimization for the design of fuzzy rule-based ensemble classifiers. <i>International Journal of Hybrid Intelligent Systems</i> , 2006 , 3, 129-145	0.9	28
437	Mating Scheme for Controlling the Diversity-Convergence Balance for Multiobjective Optimization. <i>Lecture Notes in Computer Science</i> , 2004 , 1259-1271	0.9	28
436	Operating Parameters Optimization for the Aluminum Electrolysis Process Using an Improved Quantum-Behaved Particle Swarm Algorithm. <i>IEEE Transactions on Industrial Informatics</i> , 2018 , 14, 3405-3415	11.9	26

435	KernelADASYN: Kernel based adaptive synthetic data generation for imbalanced learning 2015 ,		26
434	Evolution of Strategies With Different Representation Schemes in a Spatial Iterated Prisoner's Dilemma Game. <i>IEEE Transactions on Games</i> , 2011 , 3, 67-82		26
433	Evidence theory of exponential possibility distributions. <i>International Journal of Approximate Reasoning</i> , 1993 , 8, 123-140	3.6	26
432	Cyber-Attack Recovery Strategy for Smart Grid Based on Deep Reinforcement Learning. <i>IEEE Transactions on Smart Grid</i> , 2020 , 11, 2476-2486	10.7	26
431	Some Issues on the Implementation of Local Search in Evolutionary Multiobjective Optimization. <i>Lecture Notes in Computer Science</i> , 2004 , 1246-1258	0.9	25
430	Stacked Blockwise Combination of Interpretable TSK Fuzzy Classifiers by Negative Correlation Learning. <i>IEEE Transactions on Fuzzy Systems</i> , 2018 , 26, 3327-3341	8.3	24
429	Semi-periodically intermittent control for synchronization of switched complex networks: a mode-dependent average dwell time approach. <i>Nonlinear Dynamics</i> , 2016 , 83, 1757-1771	5	24
428	Event-Triggered Globalized Dual Heuristic Programming and Its Application to Networked Control Systems. <i>IEEE Transactions on Industrial Informatics</i> , 2019 , 15, 1383-1392	11.9	24
427	ar-MOEA: A Novel Preference-Based Dominance Relation for Evolutionary Multiobjective Optimization. <i>IEEE Transactions on Evolutionary Computation</i> , 2019 , 23, 788-802	15.6	24
426	Comparison of Hypervolume, IGD and IGD+ from the Viewpoint of Optimal Distributions of Solutions. <i>Lecture Notes in Computer Science</i> , 2019 , 332-345	0.9	23
425	Variational autoencoder based synthetic data generation for imbalanced learning 2017 ,		23
424	Hypervolume approximation using achievement scalarizing functions for evolutionary many-objective optimization 2009 ,		23
423	Foundations of Imbalanced Learning		23
422	Many-objective and many-variable test problems for visual examination of multiobjective search 2013 ,		22
421	Consensus for non-linear multi-agent systems modelled by PDEs based on spatial boundary communication. <i>IET Control Theory and Applications</i> , 2017 , 11, 3196-3200	2.5	22
420	Relation between Neighborhood Size and MOEA/D Performance on Many-Objective Problems. <i>Lecture Notes in Computer Science</i> , 2013 , 459-474	0.9	22
419	Adaptive near-optimal controllers for non-linear decentralised feedback stabilisation problems. <i>IET Control Theory and Applications</i> , 2017 , 11, 799-806	2.5	21
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