

# Kalayanmoy Deb

## List of Publications by Year in Descending Order

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**Version:** 2024-04-18

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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.

510  
papers

61,114  
citations

77  
h-index

244  
g-index

541  
ext. papers

73,549  
ext. citations

4  
avg. IF

8.3  
L-index

#	Paper	IF	Citations
510	Scheduling by NSGA-II: Review and Bibliometric Analysis. <i>Processes</i> , <b>2022</b> , 10, 98	2.9	5
509	A Learning-based Innovized Progress Operator for Faster Convergence in Evolutionary Multi-objective Optimization. <i>ACM Transactions on Evolutionary Learning</i> , <b>2022</b> , 2, 1-29		5
508	Benefits of sparse population sampling in multi-objective evolutionary computing for large-Scale sparse optimization problems. <i>Swarm and Evolutionary Computation</i> , <b>2022</b> , 69, 101025	9.8	2
507	Bi-objective optimization of transcritical CO2 heat pump systems. <i>Energy</i> , <b>2022</b> , 247, 123469	7.9	0
506	On the Use of Grossone Methodology for Handling Priorities in Multi-objective Evolutionary Optimization. <i>Emergence, Complexity and Computation</i> , <b>2022</b> , 183-218	0.1	
505	Interpretable Rule Discovery Through Bilevel Optimization of Split-Rules of Nonlinear Decision Trees for Classification Problems. <i>IEEE Transactions on Cybernetics</i> , <b>2021</b> , 51, 5573-5584	10.2	2
504	Multimodal Optimization by Evolution Strategies with Repelling Subpopulations. <i>Natural Computing Series</i> , <b>2021</b> , 145-163	2.5	
503	Surrogate Modeling Approaches for Multiobjective Optimization: Methods, Taxonomy, and Results. <i>Mathematical and Computational Applications</i> , <b>2021</b> , 26, 5	1	4
502	Evolutionary Computation: An Emerging Framework for Practical Single and Multicriterion Optimization and Decision Making <b>2021</b> , 255-286		
501	. <i>IEEE Transactions on Evolutionary Computation</i> , <b>2021</b> , 25, 277-291	15.6	32
500	A customized genetic algorithm for bi-objective routing in a dynamic network. <i>European Journal of Operational Research</i> , <b>2021</b> , 297, 615-615	5.6	2
499	Effect of Objective Normalization and Penalty Parameter on Penalty Boundary Intersection Decomposition-Based Evolutionary Many-Objective Optimization Algorithms. <i>Evolutionary Computation</i> , <b>2021</b> , 29, 157-186	4.3	5
498	Generating Well-Spaced Points on a Unit Simplex for Evolutionary Many-Objective Optimization. <i>IEEE Transactions on Evolutionary Computation</i> , <b>2021</b> , 25, 48-60	15.6	19
497	A proximity-based surrogate-assisted method for simulation-based design optimization of a cylinder head water jacket. <i>Engineering Optimization</i> , <b>2021</b> , 53, 1574-1592	2	3
496	Evolutionary Multi-Objective Optimization Algorithm for Community Detection in Complex Social Networks. <i>SN Computer Science</i> , <b>2021</b> , 2, 1	2	13
495	Multiobjective optimization and analysis of petroleum refinery catalytic processes: A review. <i>Fuel</i> , <b>2021</b> , 288, 119678	7.1	13
494	Online clustering reduction based on parametric and non-parametric correlation for a many-objective vehicle routing problem with demand responsive transport. <i>Expert Systems With Applications</i> , <b>2021</b> , 170, 114467	7.8	4

493	A non-dominated sorting based customized random-key genetic algorithm for the bi-objective traveling thief problem. <i>Journal of Heuristics</i> , <b>2021</b> , 27, 267-301	1.9	2
492	Interpretable Self-Organizing Maps (iSOM) for Visualization of Pareto Front in Multiple Objective Optimization. <i>Lecture Notes in Computer Science</i> , <b>2021</b> , 645-655	0.9	0
491	Multidimensional Aspects of Sustainable Biofuel Feedstock Production. <i>Sustainability</i> , <b>2021</b> , 13, 1424	3.6	2
490	Handling Priority Levels in Mixed Pareto-Lexicographic Many-Objective Optimization Problems. <i>Lecture Notes in Computer Science</i> , <b>2021</b> , 362-374	0.9	2
489	Embedding a Repair Operator in Evolutionary Single and Multi-objective Algorithms - An Exploitation-Exploration Perspective. <i>Lecture Notes in Computer Science</i> , <b>2021</b> , 89-101	0.9	3
488	Towards Multi-objective Co-evolutionary Problem Solving. <i>Lecture Notes in Computer Science</i> , <b>2021</b> , 139-151	0.9	1
487	Reference point based evolutionary multi-objective optimization algorithms with convergence properties using KKTPM and ASF metrics. <i>Journal of Heuristics</i> , <b>2021</b> , 27, 575-614	1.9	1
486	An improved visual analytics framework for high-dimensional pareto-optimal front: a case for multi-objective portfolio optimization. <i>Journal of Banking and Financial Technology</i> , <b>2021</b> , 5, 105	2.6	0
485	Solving the maximum edge disjoint path problem using a modified Lagrangian particle swarm optimisation hybrid. <i>European Journal of Operational Research</i> , <b>2021</b> , 293, 847-862	5.6	4
484	Neural Architecture Transfer. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , <b>2021</b> , 43, 2971-2989	13.3	12
483	Solving Mixed Pareto-Lexicographic Multiobjective Optimization Problems: The Case of Priority Levels. <i>IEEE Transactions on Evolutionary Computation</i> , <b>2021</b> , 25, 971-985	15.6	2
482	A novel multi-objective model calibration method for ecohydrological applications. <i>Environmental Modelling and Software</i> , <b>2021</b> , 144, 105161	5.2	2
481	A new gradient free local search mechanism for constrained multi-objective optimization problems. <i>Swarm and Evolutionary Computation</i> , <b>2021</b> , 67, 100938	9.8	2
480	Combining User Knowledge and Online Innovization for Faster Solution to Multi-objective Design Optimization Problems. <i>Lecture Notes in Computer Science</i> , <b>2021</b> , 102-114	0.9	3
479	Constrained Bi-objective Surrogate-Assisted Optimization of Problems with Heterogeneous Evaluation Times: Expensive Objectives and Inexpensive Constraints. <i>Lecture Notes in Computer Science</i> , <b>2021</b> , 257-269	0.9	5
478	The (M-1)+1 Framework of Relaxed Pareto Dominance for Evolutionary Many-Objective Optimization. <i>Lecture Notes in Computer Science</i> , <b>2021</b> , 349-361	0.9	0
477	Analyzing Dominance Move (MIP-DoM) Indicator for Multi-and Many-objective Optimization. <i>IEEE Transactions on Evolutionary Computation</i> , <b>2021</b> , 1-1	15.6	0
476	Energy-aware whale optimization algorithm for real-time task scheduling in multiprocessor systems. <i>Applied Soft Computing Journal</i> , <b>2020</b> , 93, 106349	7.5	10

475	A novel selection mechanism for evolutionary algorithms with metameric variable-length representations. <i>Soft Computing</i> , <b>2020</b> , 24, 16439-16452	3.5	1
474	Scheduling of Robotic Disassembly in Remanufacturing Using Bees Algorithms <b>2020</b> , 257-298		1
473	Does Preference Always Help? A Holistic Study on Preference-Based Evolutionary Multiobjective Optimization Using Reference Points. <i>IEEE Transactions on Evolutionary Computation</i> , <b>2020</b> , 24, 1078-1098	15.6	13
472	Ranking Multi-Metric Scientific Achievements Using a Concept of Pareto Optimality. <i>Mathematics</i> , <b>2020</b> , 8, 956	2.3	4
471	Investigating the equivalence between PBI and AASF scalarization for multi-objective optimization. <i>Swarm and Evolutionary Computation</i> , <b>2020</b> , 53, 100630	9.8	3
470	Implicit constraints handling for efficient search of feasible solutions. <i>Computer Methods in Applied Mechanics and Engineering</i> , <b>2020</b> , 363, 112917	5.7	9
469	A smooth proximity measure for optimality in multi-objective optimization using Benson's method. <i>Computers and Operations Research</i> , <b>2020</b> , 117, 104900	4.6	3
468	A customized bilevel optimization approach for solving large-scale truss design problems. <i>Engineering Optimization</i> , <b>2020</b> , 52, 2062-2079	2	2
467	Pymoo: Multi-Objective Optimization in Python. <i>IEEE Access</i> , <b>2020</b> , 8, 89497-89509	3.5	184
466	Learning-based multi-objective optimization through ANN-assisted online Innovization <b>2020</b> ,		5
465	Gap finding and validation in evolutionary multi- and many-objective optimization <b>2020</b> ,		3
464	Approximate Bilevel Optimization with Population-Based Evolutionary Algorithms. <i>Springer Optimization and Its Applications</i> , <b>2020</b> , 361-402	0.4	1
463	NSGANetV2: Evolutionary Multi-objective Surrogate-Assisted Neural Architecture Search. <i>Lecture Notes in Computer Science</i> , <b>2020</b> , 35-51	0.9	23
462	Unconventional optimization for achieving well-informed design solutions for the automobile industry. <i>Engineering Optimization</i> , <b>2020</b> , 52, 1542-1560	2	3
461	MUXConv: Information Multiplexing in Convolutional Neural Networks <b>2020</b> ,		15
460	A Running Performance Metric and Termination Criterion for Evaluating Evolutionary Multi- and Many-objective Optimization Algorithms <b>2020</b> ,		5
459	A Large-scale Bi-objective Optimization of Solid Rocket Motors Using Innovization <b>2020</b> ,		7
458	On a practical notion of Geoffrion proper optimality in multicriteria optimization. <i>Optimization</i> , <b>2020</b> , 69, 1513-1539	1.2	1

457	A genetic algorithm with local search for solving single-source single-sink nonlinear non-convex minimum cost flow problems. <i>Soft Computing</i> , <b>2020</b> , 24, 1153-1169	3.5	5
456	Difficulty Adjustable and Scalable Constrained Multiobjective Test Problem Toolkit. <i>Evolutionary Computation</i> , <b>2020</b> , 28, 339-378	4.3	27
455	Bilevel optimization based on iterative approximation of multiple mappings. <i>Journal of Heuristics</i> , <b>2020</b> , 26, 151-185	1.9	18
454	PaletteViz: A Visualization Method for Functional Understanding of High-Dimensional Pareto-Optimal Data-Sets to Aid Multi-Criteria Decision Making. <i>IEEE Computational Intelligence Magazine</i> , <b>2020</b> , 15, 36-48	5.6	7
453	A survey of evolutionary algorithms using metameric representations. <i>Genetic Programming and Evolvable Machines</i> , <b>2019</b> , 20, 441-478	2	19
452	Generating Uniformly Distributed Points on a Unit Simplex for Evolutionary Many-Objective Optimization. <i>Lecture Notes in Computer Science</i> , <b>2019</b> , 179-190	0.9	2
451	Investigating the Normalization Procedure of NSGA-III. <i>Lecture Notes in Computer Science</i> , <b>2019</b> , 229-240	0.9	15
450	Trust-Region Based Multi-objective Optimization for Low Budget Scenarios. <i>Lecture Notes in Computer Science</i> , <b>2019</b> , 373-385	0.9	4
449	A multi-objective approach to water and nutrient efficiency for sustainable agricultural intensification. <i>Agricultural Systems</i> , <b>2019</b> , 173, 289-302	6.1	24
448	Simulation Optimization of Water Usage and Crop Yield Using Precision Irrigation. <i>Lecture Notes in Computer Science</i> , <b>2019</b> , 695-706	0.9	1
447	Comparison between MOEA/D and NSGA-III on a set of novel many and multi-objective benchmark problems with challenging difficulties. <i>Swarm and Evolutionary Computation</i> , <b>2019</b> , 46, 104-117	9.8	85
446	Constrained Multi-objective Evolutionary Algorithm. <i>Studies in Computational Intelligence</i> , <b>2019</b> , 85-118	0.8	1
445	Using Karush-Kuhn-Tucker proximity measure for solving bilevel optimization problems. <i>Swarm and Evolutionary Computation</i> , <b>2019</b> , 44, 496-510	9.8	26
444	NSGA-Net <b>2019</b> ,		114
443	Analysis and multi-objective optimization of a kind of teaching manipulator. <i>Swarm and Evolutionary Computation</i> , <b>2019</b> , 50, 100554	9.8	3
442	Crop yield simulation optimization using precision irrigation and subsurface water retention technology. <i>Environmental Modelling and Software</i> , <b>2019</b> , 119, 433-444	5.2	13
441	Explicit Control of Implicit Parallelism in Decomposition-Based Evolutionary Many-Objective Optimization Algorithms [Research Frontier]. <i>IEEE Computational Intelligence Magazine</i> , <b>2019</b> , 14, 52-64	5.6	3
440	Variable-Length Pareto Optimization via Decomposition-Based Evolutionary Multiobjective Algorithm. <i>IEEE Transactions on Evolutionary Computation</i> , <b>2019</b> , 23, 987-999	15.6	9

439	Push and pull search for solving constrained multi-objective optimization problems. <i>Swarm and Evolutionary Computation</i> , <b>2019</b> , 44, 665-679	9.8	99
438	Using semi-independent variables to enhance optimization search. <i>Expert Systems With Applications</i> , <b>2019</b> , 120, 279-297	7.8	6
437	Multiphase Balance of Diversity and Convergence in Multiobjective Optimization. <i>IEEE Transactions on Evolutionary Computation</i> , <b>2019</b> , 23, 503-513	15.6	21
436	An Efficient Nondominated Sorting Algorithm for Large Number of Fronts. <i>IEEE Transactions on Cybernetics</i> , <b>2019</b> , 49, 859-869	10.2	18
435	CHIP: Constraint Handling with Individual Penalty approach using a hybrid evolutionary algorithm. <i>Neural Computing and Applications</i> , <b>2019</b> , 31, 5255-5271	4.8	2
434	A Taxonomy for Metamodeling Frameworks for Evolutionary Multiobjective Optimization. <i>IEEE Transactions on Evolutionary Computation</i> , <b>2019</b> , 23, 104-116	15.6	33
433	R-Metric: Evaluating the Performance of Preference-Based Evolutionary Multiobjective Optimization Using Reference Points. <i>IEEE Transactions on Evolutionary Computation</i> , <b>2018</b> , 22, 821-835	15.6	37
432	Improving the performance of genetic algorithms for land-use allocation problems. <i>International Journal of Geographical Information Science</i> , <b>2018</b> , 32, 907-930	4.1	25
431	A Novel Class of Test Problems for Performance Evaluation of Niching Methods. <i>IEEE Transactions on Evolutionary Computation</i> , <b>2018</b> , 22, 909-919	15.6	7
430	Late parallelization and feedback approaches for distributed computation of evolutionary multi-objective optimization algorithms. <i>Neural Computing and Applications</i> , <b>2018</b> , 30, 723-733	4.8	1
429	Derived heuristics-based consistent optimization of material flow in a gold processing plant. <i>Engineering Optimization</i> , <b>2018</b> , 50, 1-18	2	5
428	. <i>IEEE Transactions on Evolutionary Computation</i> , <b>2018</b> , 22, 276-295	15.6	276
427	Adaptively Allocating Search Effort in Challenging Many-Objective Optimization Problems. <i>IEEE Transactions on Evolutionary Computation</i> , <b>2018</b> , 22, 433-448	15.6	85
426	Detecting irrigation extent, frequency, and timing in a heterogeneous arid agricultural region using MODIS time series, Landsat imagery, and ancillary data. <i>Remote Sensing of Environment</i> , <b>2018</b> , 204, 197-211	13.2	51
425	Opposition based learning: A literature review. <i>Swarm and Evolutionary Computation</i> , <b>2018</b> , 39, 1-23	9.8	123
424	3D-RadVis Antenna: Visualization and performance measure for many-objective optimization. <i>Swarm and Evolutionary Computation</i> , <b>2018</b> , 39, 157-176	9.8	10
423	Distributed approaches for reference-point-based multi-objective hybrid problems. <i>Information Sciences</i> , <b>2018</b> , 467, 323-341	7.7	
422	Trust-region based algorithms with low-budget for multi-objective optimization <b>2018</b> ,		1

421	Evaluation of the impacts of hydrologic model calibration methods on predictability of ecologically-relevant hydrologic indices. <i>Journal of Hydrology</i> , <b>2018</b> , 564, 758-772	6	9
420	Non-dominated Sorting Based Multi/Many-Objective Optimization: Two Decades of Research and Application <b>2018</b> , 1-24		7
419	Using multi-objective optimization to secure fertile soils across municipalities. <i>Applied Geography</i> , <b>2018</b> , 97, 75-84	4.4	10
418	Handling Multiple Scenarios in Evolutionary Multiobjective Numerical Optimization. <i>IEEE Transactions on Evolutionary Computation</i> , <b>2018</b> , 22, 920-933	15.6	14
417	Switching Between Metamodeling Frameworks for Efficient Multi-Objective Optimization <b>2018</b> ,		1
416	Reference Point Based NSGA-III for Preferred Solutions <b>2018</b> ,		15
415	Evolving and Comparing Greenhouse Control Strategies using Model-Based Multi-Objective Optimization <b>2018</b> ,		4
414	A Topologically Consistent Visualization of High Dimensional Pareto-front for Multi-Criteria Decision Making <b>2018</b> ,		2
413	Reference point based evolutionary multi-objective optimization with dynamic resampling for production systems improvement. <i>Journal of Systems and Information Technology</i> , <b>2018</b> , 20, 489-512	1.7	2
412	<b>2018</b> ,		6
411	Uncertainty Handling in Bilevel Optimization for Robust and Reliable Solutions. <i>International Journal of Uncertainty, Fuzziness and Knowledge-Based Systems</i> , <b>2018</b> , 26, 1-24	0.8	2
410	Evaluation of the migrated solutions for distributing reference point-based multi-objective optimization algorithms. <i>Information Sciences</i> , <b>2018</b> , 467, 750-765	7.7	3
409	Closely spaced rectangular footings on sand over soft clay with geogrid at the interface. <i>Geosynthetics International</i> , <b>2018</b> , 25, 412-426	3.3	6
408	Guest Editorial Special Issue on Search-Based Software Engineering. <i>IEEE Transactions on Evolutionary Computation</i> , <b>2018</b> , 22, 333-333	15.6	
407	A robust multi-objective approach to balance severity and importance of refactoring opportunities. <i>Empirical Software Engineering</i> , <b>2017</b> , 22, 894-927	3.3	31
406	Multi-objective code-smells detection using good and bad design examples. <i>Software Quality Journal</i> , <b>2017</b> , 25, 529-552	1.2	24
405	Multi-view refactoring of class and activity diagrams using a multi-objective evolutionary algorithm. <i>Software Quality Journal</i> , <b>2017</b> , 25, 473-501	1.2	25
404	Towards faster convergence of evolutionary multi-criterion optimization algorithms using Karush Kuhn Tucker optimality based local search. <i>Computers and Operations Research</i> , <b>2017</b> , 79, 331-346	4.6	14

403	Multimodal Optimization by Covariance Matrix Self-Adaptation Evolution Strategy with Repelling Subpopulations. <i>Evolutionary Computation</i> , <b>2017</b> , 25, 439-471	4.3	33
402	Design optimization of an artificial lateral line system incorporating flow and sensor uncertainties. <i>Engineering Optimization</i> , <b>2017</b> , 49, 328-344	2	9
401	Data mining methods for knowledge discovery in multi-objective optimization: Part B - New developments and applications. <i>Expert Systems With Applications</i> , <b>2017</b> , 70, 119-138	7.8	30
400	Towards a Better Balance of Diversity and Convergence in NSGA-III: First Results. <i>Lecture Notes in Computer Science</i> , <b>2017</b> , 545-559	0.9	3
399	Classifying Metamodeling Methods for Evolutionary Multi-objective Optimization: First Results. <i>Lecture Notes in Computer Science</i> , <b>2017</b> , 160-175	0.9	10
398	Injection of Extreme Points in Evolutionary Multiobjective Optimization Algorithms. <i>Lecture Notes in Computer Science</i> , <b>2017</b> , 590-605	0.9	4
397	Empirical Investigations of Reference Point Based Methods When Facing a Massively Large Number of Objectives: First Results. <i>Lecture Notes in Computer Science</i> , <b>2017</b> , 390-405	0.9	4
396	A population-based fast algorithm for a billion-dimensional resource allocation problem with integer variables. <i>European Journal of Operational Research</i> , <b>2017</b> , 261, 460-474	5.6	26
395	MORE: A multi-objective refactoring recommendation approach to introducing design patterns and fixing code smells. <i>Journal of Software: Evolution and Process</i> , <b>2017</b> , 29, e1843	1	16
394	Multi-Criterion Optimization and Decision Making Using Evolutionary Computing <b>2017</b> , 293-321		
393	Effects of aspect ratio of footings on bearing capacity for geogrid-reinforced sand over soft soil. <i>Geosynthetics International</i> , <b>2017</b> , 24, 362-382	3.3	36
392	Financial time series prediction using hybrids of chaos theory, multi-layer perceptron and multi-objective evolutionary algorithms. <i>Swarm and Evolutionary Computation</i> , <b>2017</b> , 36, 136-149	9.8	61
391	Seeking Multiple Solutions: An Updated Survey on Niching Methods and Their Applications. <i>IEEE Transactions on Evolutionary Computation</i> , <b>2017</b> , 21, 518-538	15.6	126
390	Handling practicalities in agricultural policy optimization for water quality improvements <b>2017</b> ,		1
389	Effect of a Push Operator in Genetic Algorithms for Multimodal Optimization. <i>Communications in Computer and Information Science</i> , <b>2017</b> , 3-21	0.3	1
388	Metamodeling for multimodal selection functions in evolutionary multi-objective optimization <b>2017</b> ,		7
387	Reducing the loss of agricultural productivity due to compact urban development in municipalities of Switzerland. <i>Computers, Environment and Urban Systems</i> , <b>2017</b> , 65, 162-177	5.9	13
386	A Computationally Fast Convergence Measure and Implementation for Single-, Multiple-, and Many-Objective Optimization. <i>IEEE Transactions on Emerging Topics in Computational Intelligence</i> , <b>2017</b> , 1, 280-293	4.1	8



385	Neural network metamodelling in multi-objective optimization of a high latitude solar community. <i>Solar Energy</i> , <b>2017</b> , 155, 323-335	6.8	10
384	<b>2017</b> ,		2
383	Fusion-based hybrid many-objective optimization algorithm <b>2017</b> ,		3
382	Enhancing clearing-based niching method using Delaunay Triangulation <b>2017</b> ,		3
381	A bi-objective hybrid constrained optimization (HyCon) method using a multi-objective and penalty function approach <b>2017</b> ,		6
380	Effect of size and order of variables in rules for multi-objective repair-based innovization procedure <b>2017</b> ,		8
379	Challenges for evolutionary multiobjective optimization algorithms in solving variable-length problems <b>2017</b> ,		7
378	Multimodal truss structure design using bilevel and niching based evolutionary algorithms <b>2017</b> ,		5
377	Efficient Nondomination Level Update Method for Steady-State Evolutionary Multiobjective Optimization. <i>IEEE Transactions on Cybernetics</i> , <b>2017</b> , 47, 2838-2849	10.2	33
376	Approximated set-valued mapping approach for handling multiobjective bilevel problems. <i>Computers and Operations Research</i> , <b>2017</b> , 77, 194-209	4.6	16
375	Evolutionary algorithm for bilevel optimization using approximations of the lower level optimal solution mapping. <i>European Journal of Operational Research</i> , <b>2017</b> , 257, 395-411	5.6	53
374	A derived heuristics based multi-objective optimization procedure for micro-grid scheduling. <i>Engineering Optimization</i> , <b>2017</b> , 49, 1078-1096	2	14
373	Search-based detection of model level changes. <i>Empirical Software Engineering</i> , <b>2017</b> , 22, 670-715	3.3	14
372	Solving metameric variable-length optimization problems using genetic algorithms. <i>Genetic Programming and Evolvable Machines</i> , <b>2017</b> , 18, 247-277	2	18
371	Data mining methods for knowledge discovery in multi-objective optimization: Part A - Survey. <i>Expert Systems With Applications</i> , <b>2017</b> , 70, 139-159	7.8	90
370	RDS-NSGA-II: a memetic algorithm for reference point based multi-objective optimization. <i>Engineering Optimization</i> , <b>2017</b> , 49, 828-845	2	15
369	Finding near-optimum and diverse solutions for a large-scale engineering design problem <b>2017</b> ,		3
368	A Comparative Study of Fast Adaptive Preference-Guided Evolutionary Multi-objective Optimization. <i>Lecture Notes in Computer Science</i> , <b>2017</b> , 560-574	0.9	1

367	Solving the Bi-objective Traveling Thief Problem with Multi-objective Evolutionary Algorithms. <i>Lecture Notes in Computer Science</i> , <b>2017</b> , 46-60	0.9	8
366	Multi-Objective Evolutionary Algorithms <b>2017</b> , 185-229		
365	Solving Bilevel Multicriterion Optimization Problems With Lower Level Decision Uncertainty. <i>IEEE Transactions on Evolutionary Computation</i> , <b>2016</b> , 20, 199-217	15.6	36
364	Uniform adaptive scaling of equality and inequality constraints within hybrid evolutionary-cum-classical optimization. <i>Soft Computing</i> , <b>2016</b> , 20, 2367-2382	3.5	7
363	Adaptive Use of Innovization Principles for a Faster Convergence of Evolutionary Multi-Objective Optimization Algorithms <b>2016</b> ,		7
362	Investigating the Effect of Imbalance Between Convergence and Diversity in Evolutionary Multiobjective Algorithms. <i>IEEE Transactions on Evolutionary Computation</i> , <b>2016</b> , 1-1	15.6	8
361	Multi-Criteria Code Refactoring Using Search-Based Software Engineering. <i>ACM Transactions on Software Engineering and Methodology</i> , <b>2016</b> , 25, 1-53	3.3	63
360	Extracting from the relaxed for large-scale semi-continuous variable nondominated frontiers. <i>Journal of Global Optimization</i> , <b>2016</b> , 64, 33-48	1.5	2
359	A Unified Evolutionary Optimization Procedure for Single, Multiple, and Many Objectives. <i>IEEE Transactions on Evolutionary Computation</i> , <b>2016</b> , 20, 358-369	15.6	59
358	An improved fully stressed design evolution strategy for layout optimization of truss structures. <i>Computers and Structures</i> , <b>2016</b> , 164, 127-144	4.5	28
357	Structural topology optimization using multi-objective genetic algorithm with constructive solid geometry representation. <i>Applied Soft Computing Journal</i> , <b>2016</b> , 39, 240-250	7.5	16
356	An Optimality Theory-Based Proximity Measure for Set-Based Multiobjective Optimization. <i>IEEE Transactions on Evolutionary Computation</i> , <b>2016</b> , 20, 515-528	15.6	26
355	On the use of many quality attributes for software refactoring: a many-objective search-based software engineering approach. <i>Empirical Software Engineering</i> , <b>2016</b> , 21, 2503-2545	3.3	49
354	Hybrid Dynamic Resampling Algorithms for Evolutionary Multi-objective Optimization of Invariant-Noise Problems. <i>Lecture Notes in Computer Science</i> , <b>2016</b> , 311-326	0.9	2
353	Variable Interaction in Multi-objective Optimization Problems. <i>Lecture Notes in Computer Science</i> , <b>2016</b> , 399-409	0.9	6
352	Multi-Objective Evolutionary Algorithms. <i>Advances in Chemical and Materials Engineering Book Series</i> , <b>2016</b> , 301-345	0.2	
351	Best Order Sort <b>2016</b> ,		20
350	Karush-Kuhn-Tucker Proximity Measure for Multi-Objective Optimization Based on Numerical Gradients <b>2016</b> ,		1

349	A Generative Kriging Surrogate Model for Constrained and Unconstrained Multi-objective Optimization <b>2016</b> ,		18
348	3D-RadVis: Visualization of Pareto front in many-objective optimization <b>2016</b> ,		30
347	Center-based initialization of cooperative co-evolutionary algorithm for large-scale optimization <b>2016</b> ,		13
346	A ranking and selection strategy for preference-based evolutionary multi-objective optimization of variable-noise problems <b>2016</b> ,		4
345	High dimensional model representation for solving expensive multi-objective optimization problems <b>2016</b> ,		7
344	Multi-Objective Optimization <b>2016</b> , 145-184		56
343	Handling inverse optimal control problems using evolutionary bilevel optimization <b>2016</b> ,		7
342	Metaheuristic Techniques <b>2016</b> , 693-750		10
341	EliteNSGA-III: An improved evolutionary many-objective optimization algorithm <b>2016</b> ,		18
340	Solving optimistic bilevel programs by iteratively approximating lower level optimal value function <b>2016</b> ,		10
339	Breaking the Billion-Variable Barrier in Real-World Optimization Using a Customized Evolutionary Algorithm <b>2016</b> ,		19
338	Towards a Better Diversity of Evolutionary Multi-Criterion Optimization Algorithms using Local Searches <b>2016</b> ,		4
337	Maintaining Diversity in The Bounded Pareto-Set <b>2016</b> ,		1
336	Multi-Objective Evolutionary Algorithms <b>2015</b> , 995-1015		28
335	An Optimality Theory Based Proximity Measure for Evolutionary Multi-Objective and Many-Objective Optimization. <i>Lecture Notes in Computer Science</i> , <b>2015</b> , 18-33	0.9	14
334	A dual-population paradigm for evolutionary multiobjective optimization. <i>Information Sciences</i> , <b>2015</b> , 309, 50-72	7.7	36
333	Unwanted Feature Interactions Between the Problem and Search Operators in Evolutionary Multi-objective Optimization. <i>Lecture Notes in Computer Science</i> , <b>2015</b> , 19-33	0.9	1
332	A Multimodal Approach for Evolutionary Multi-objective Optimization (MEMO): Proof-of-Principle Results. <i>Lecture Notes in Computer Science</i> , <b>2015</b> , 3-18	0.9	10

331	U-NSGA-III: A Unified Evolutionary Optimization Procedure for Single, Multiple, and Many Objectives: Proof-of-Principle Results. <i>Lecture Notes in Computer Science</i> , <b>2015</b> , 34-49	0.9	49
330	Effect of selection operator on NSGA-III in single, multi, and many-objective optimization <b>2015</b> ,		4
329	Unconstrained robust optimization using a descent-based crossover operator <b>2015</b> ,		1
328	Generalized higher-level automated innovization with application to inventory management. <i>European Journal of Operational Research</i> , <b>2015</b> , 243, 480-496	5.6	10
327	An Evolutionary Many-Objective Optimization Algorithm Based on Dominance and Decomposition. <i>IEEE Transactions on Evolutionary Computation</i> , <b>2015</b> , 19, 694-716	15.6	650
326	MOMM: Multi-objective model merging. <i>Journal of Systems and Software</i> , <b>2015</b> , 103, 423-439	3.3	18
325	Simultaneous topology, shape and size optimization of truss structures by fully stressed design based on evolution strategy. <i>Engineering Optimization</i> , <b>2015</b> , 47, 1063-1084	2	33
324	Feasibility preserving constraint-handling strategies for real parameter evolutionary optimization. <i>Computational Optimization and Applications</i> , <b>2015</b> , 62, 851-890	1.4	27
323	Transportation policy formulation as a multi-objective bilevel optimization problem <b>2015</b> ,		16
322	An integrated approach involving EMO and HYDRUS-2D software for SWRT-based precision irrigation <b>2015</b> ,		1
321	Triple Bottomline Many-Objective-Based Decision Making for a Land Use Management Problem. <i>Journal of Multi-Criteria Decision Analysis</i> , <b>2015</b> , 22, 133-159	1.9	9
320	Many-Objective Software Remodularization Using NSGA-III. <i>ACM Transactions on Software Engineering and Methodology</i> , <b>2015</b> , 24, 1-45	3.3	131
319	Reference point based distributed computing for multiobjective optimization <b>2015</b> ,		1
318	Handling decision variable uncertainty in bilevel optimization problems <b>2015</b> ,		4
317	Constrained Efficient Global Optimization for Pultrusion Process. <i>Materials and Manufacturing Processes</i> , <b>2015</b> , 30, 538-551	4.1	23
316	Multi-scenario, multi-objective optimization using evolutionary algorithms: Initial results <b>2015</b> ,		5
315	Evolutionary Constrained Optimization: A Hybrid Approach. <i>Infosys Science Foundation Series</i> , <b>2015</b> , 249-313		
314	Development, analysis and applications of a quantitative methodology for assessing customer satisfaction using evolutionary optimization. <i>Applied Soft Computing Journal</i> , <b>2015</b> , 30, 265-278	7.5	8

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3 <sup>12</sup>	Hybrid Dynamic Resampling for Guided Evolutionary Multi-Objective Optimization. <i>Lecture Notes in Computer Science</i> , <b>2015</b> , 366-380	0.9	8
3 <sup>11</sup>	Towards Understanding Bilevel Multi-objective Optimization with Deterministic Lower Level Decisions. <i>Lecture Notes in Computer Science</i> , <b>2015</b> , 426-443	0.9	9
3 <sup>10</sup>	Temporal Innovization: Evolution of Design Principles Using Multi-objective Optimization. <i>Lecture Notes in Computer Science</i> , <b>2015</b> , 79-93	0.9	3
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3 <sup>02</sup>	A constraint consensus memetic algorithm for solving constrained optimization problems. <i>Engineering Optimization</i> , <b>2014</b> , 46, 1447-1464	2	14
3 <sup>01</sup>	Integrating user preferences and decomposition methods for many-objective optimization <b>2014</b> ,		23
3 <sup>00</sup>	A bilevel optimization approach to automated parameter tuning <b>2014</b> ,		19
299	High dimensional search-based software engineering <b>2014</b> ,		41
298	Machine learning based decision support for many-objective optimization problems. <i>Neurocomputing</i> , <b>2014</b> , 146, 30-47	5.4	15
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292	Multi-scenario optimization using multi-criterion methods: A case study on Byzantine agreement problem <b>2014</b> ,		7
291	An improved bilevel evolutionary algorithm based on Quadratic Approximations <b>2014</b> ,		37
290	Recommendation system for software refactoring using innovization and interactive dynamic optimization <b>2014</b> ,		39
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257	A comparative study of dynamic resampling strategies for guided Evolutionary Multi-objective Optimization <b>2013</b> ,		12
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211	Simulation-Based Innovization Using Data Mining for Production Systems Analysis <b>2011</b> , 401-429		7
210	Multi-objective Optimisation and Multi-criteria Decision Making for FDM Using Evolutionary Approaches <b>2011</b> , 219-247		3
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208	Automated discovery of vital knowledge from Pareto-optimal solutions: First results from engineering design <b>2010</b> ,		16
207	Finding multiple solutions for multimodal optimization problems using a multi-objective evolutionary approach <b>2010</b> ,		29
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184	Performance assessment of the hybrid Archive-based Micro Genetic Algorithm (AMGA) on the CEC09 test problems <b>2009</b> ,		27
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164	Deciphering innovative principles for optimal electric brushless D.C. permanent magnet motor design <b>2008</b> ,		6
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145	Interactive evolutionary multi-objective optimization and decision-making using reference direction method <b>2007</b> ,		89
144	Self-adaptive simulated binary crossover for real-parameter optimization <b>2007</b> ,		63
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134	The sequential optimization-constraint multi-objective problem and its applications for robust planning of robot paths <b>2007</b> ,		5

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126	Towards estimating nadir objective vector using evolutionary approaches <b>2006</b> ,		36
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18	Handling constraints in robust multi-objective optimization		11
17	Novel composition test functions for numerical global optimization		163
16	Stochastic Evolutionary Multiobjective Environmental/Economic Dispatch		4
15	A Population-Based, Parent Centric Procedure for Constrained Real-Parameter Optimization		17
14	Computationally effective search and optimization procedure using coarse to fine approximations		13
13	Parallelizing multi-objective evolutionary algorithms: cone separation		35
12	Multiclass protein fold recognition using multiobjective evolutionary algorithms		8
11	A population-based, steady-state procedure for real-parameter optimization		36
10	Real-coded evolutionary algorithms with parent-centric recombination		31
9	Scalable multi-objective optimization test problems		497
8	An evolutionary algorithm for constrained multi-objective optimization		28

7	An alternative constraint handling method for evolution strategies		10
6	Towards understanding constraint-handling methods in evolutionary algorithms		3
5	Fuzzy-genetic algorithms and mobile robot navigation among static obstacles		5
4	Solving goal programming problems using multi-objective genetic algorithms		29
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