

Tapabrata Ray

List of Publications by Year in Descending Order

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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.

210
papers

4,316
citations

31
h-index

59
g-index

229
ext. papers

5,141
ext. citations

4.4
avg, IF

6.03
L-index

#	Paper	IF	Citations
210	Towards identification of solutions of interest for multi-objective problems considering both objective and variable space information. <i>Applied Soft Computing Journal</i> , 2022 , 108505	7.5	2
209	An Iterative Two-stage Multi-fidelity Optimization Algorithm for Computationally Expensive Problems. <i>IEEE Transactions on Evolutionary Computation</i> , 2022 , 1-1	15.6	1
208	Evolutionary Algorithm Embedded With Bump-Hunting for Constrained Design Optimization. <i>Journal of Mechanical Design, Transactions of the ASME</i> , 2021 , 143,	3	2
207	A Multifidelity Approach for Bilevel Optimization with Limited Computing Budget. <i>IEEE Transactions on Evolutionary Computation</i> , 2021 , 1-1	15.6	
206	Feasibility-ratio based sequencing for computationally efficient constrained optimization. <i>Swarm and Evolutionary Computation</i> , 2021 , 62, 100850	9.8	2
205	Real-time scheduling of community microgrid. <i>Journal of Cleaner Production</i> , 2021 , 286, 125419	10.3	6
204	Investigating Normalization Bounds for Hypervolume-Based Infill Criterion for Expensive Multiobjective Optimization. <i>Lecture Notes in Computer Science</i> , 2021 , 519-530	0.9	1
203	A multi-objective optimization of stent geometries. <i>Journal of Biomechanics</i> , 2021 , 125, 110575	2.9	2
202	An efficient optimization approach for flexibility provisioning in community microgrids with an incentive-based demand response scheme. <i>Sustainable Cities and Society</i> , 2021 , 74, 103218	10.1	4
201	. <i>IEEE Transactions on Evolutionary Computation</i> , 2021 , 1-1	15.6	10
200	. <i>IEEE Access</i> , 2020 , 8, 76500-76515	3.5	7
199	Many-Objective Optimization with Limited Computing Budget. <i>Studies in Computational Intelligence</i> , 2020 , 17-46	0.8	
198	Online intensification of search around solutions of interest for multi/many-objective optimization 2020 ,		2
197	Rollout based Heuristics for the Quantum Circuit Compilation Problem 2019 ,		3
196	Investigating the use of sequencing and infeasibility driven strategies for constrained optimization 2019 ,		3
195	Evolving rollout-justification based heuristics for resource constrained project scheduling problems. <i>Swarm and Evolutionary Computation</i> , 2019 , 50, 100556	9.8	8
194	Nested evolutionary algorithms for computationally expensive bilevel optimization problems: Variants and their systematic analysis. <i>Swarm and Evolutionary Computation</i> , 2019 , 48, 329-344	9.8	9

193	A multiple surrogate assisted multi/many-objective multi-fidelity evolutionary algorithm. <i>Information Sciences</i> , 2019 , 502, 537-557	7.7	9
192	Adaptive Sorting-Based Evolutionary Algorithm for Many-Objective Optimization. <i>IEEE Transactions on Evolutionary Computation</i> , 2019 , 23, 247-257	15.6	28
191	Kinematic optimization of a flapping foil power generator using a multi-fidelity evolutionary algorithm. <i>Renewable Energy</i> , 2019 , 132, 543-557	8.1	12
190	Identifying solutions of interest for practical many-objective problems using recursive expected marginal utility 2019 ,		3
189	Optimum Wind Farm Layouts: A Many-Objective Perspective and Case Study. <i>Lecture Notes in Computer Science</i> , 2019 , 707-718	0.9	
188	. <i>IEEE Transactions on Evolutionary Computation</i> , 2019 , 23, 1000-1014	15.6	45
187	Distance-Based Subset Selection for Benchmarking in Evolutionary Multi/Many-Objective Optimization. <i>IEEE Transactions on Evolutionary Computation</i> , 2019 , 23, 904-912	15.6	18
186	Evolving heuristics for the resource constrained project scheduling problem with dynamic resource disruptions. <i>Swarm and Evolutionary Computation</i> , 2019 , 44, 897-912	9.8	15
185	A multiple surrogate assisted evolutionary algorithm for optimization involving iterative solvers. <i>Engineering Optimization</i> , 2018 , 50, 1625-1644	2	5
184	Evolutionary Algorithms for Finding Nash Equilibria in Electricity Markets. <i>IEEE Transactions on Evolutionary Computation</i> , 2018 , 22, 536-549	15.6	24
183	An Enhanced Decomposition-Based Evolutionary Algorithm With Adaptive Reference Vectors. <i>IEEE Transactions on Cybernetics</i> , 2018 , 48, 2321-2334	10.2	38
182	On the use of genetic programming to evolve priority rules for resource constrained project scheduling problems. <i>Information Sciences</i> , 2018 , 432, 146-163	7.7	41
181	Adaptation of operators and continuous control parameters in differential evolution for constrained optimization. <i>Soft Computing</i> , 2018 , 22, 6595-6616	3.5	11
180	Investigation of a Simple Distance Based Ranking Metric for Decomposition-Based Multi/Many-Objective Evolutionary Algorithms. <i>Lecture Notes in Computer Science</i> , 2018 , 384-396	0.9	
179	Efficient Global Optimization for Solving Computationally Expensive Bilevel Optimization Problems 2018 ,		2
178	Team Selection Using Multi-/Many-Objective Optimization with Integer Linear Programming 2018 ,		2
177	Genetic Programming With Mixed-Integer Linear Programming-Based Library Search. <i>IEEE Transactions on Evolutionary Computation</i> , 2018 , 22, 733-747	15.6	11
176	Multiple Surrogate-Assisted Many-Objective Optimization for Computationally Expensive Engineering Design. <i>Journal of Mechanical Design, Transactions of the ASME</i> , 2018 , 140,	3	16

175	Design Optimization of an Unmanned Underwater Vehicle Using Low- and High-Fidelity Models. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , 2017 , 47, 2794-2808	7.3	16
174	Efficient Use of Partially Converged Simulations in Evolutionary Optimization. <i>IEEE Transactions on Evolutionary Computation</i> , 2017 , 21, 52-64	15.6	17
173	A Novel Decomposition-Based Evolutionary Algorithm for Engineering Design Optimization. <i>Journal of Mechanical Design, Transactions of the ASME</i> , 2017 , 139,	3	7
172	A Batch Infill Strategy for Computationally Expensive Optimization Problems. <i>Lecture Notes in Computer Science</i> , 2017 , 74-85	0.9	1
171	A Surrogate Assisted Approach for Single-Objective Bilevel Optimization. <i>IEEE Transactions on Evolutionary Computation</i> , 2017 , 21, 681-696	15.6	31
170	Multi-Objective Optimization Using an Evolutionary Algorithm Embedded with Multiple Spatially Distributed Surrogates. <i>Advances in Process Systems Engineering</i> , 2017 , 135-155		3
169	Sensitivity analysis of inverse algorithms for damage detection in composites. <i>Composite Structures</i> , 2017 , 176, 844-859	5.3	17
168	. <i>IEEE Transactions on Evolutionary Computation</i> , 2017 , 21, 813-820	15.6	40
167	Co-evolutionary approach for strategic bidding in competitive electricity markets. <i>Applied Soft Computing Journal</i> , 2017 , 51, 1-22	7.5	24
166	Use of a Non-nested Formulation to Improve Search for Bilevel Optimization. <i>Lecture Notes in Computer Science</i> , 2017 , 106-118	0.9	0
165	A Path-Based Solution Algorithm for Dynamic Traffic Assignment. <i>Networks and Spatial Economics</i> , 2017 , 17, 841-860	1.9	1
164	Consolidated optimization algorithm for resource-constrained project scheduling problems. <i>Information Sciences</i> , 2017 , 418-419, 346-362	7.7	43
163	Decomposition Based Evolutionary Algorithm with a Dual Set of reference vectors 2017 ,		10
162	A heuristic algorithm for solving resource constrained project scheduling problems 2017 ,		1
161	An Enhanced Memetic Algorithm for Single-Objective Bilevel Optimization Problems. <i>Evolutionary Computation</i> , 2017 , 25, 607-642	4.3	24
160	An approach to generate comprehensive piecewise linear interpolation of pareto outcomes to aid decision making. <i>Journal of Global Optimization</i> , 2017 , 68, 71-93	1.5	2
159	An Evolutionary Framework for Bi-objective Dynamic Economic and Environmental Dispatch Problems. <i>Proceedings in Adaptation, Learning and Optimization</i> , 2017 , 495-508	0.2	2
158	Enhanced Pareto Interpolation Method to Aid Decision Making for Discontinuous Pareto Optimal Fronts. <i>Lecture Notes in Computer Science</i> , 2017 , 93-105	0.9	1

157	Evolutionary algorithms for power generation planning with uncertain renewable energy. <i>Energy</i> , 2016 , 112, 408-419	7.9	16
156	A path-based flow formulation for the traffic assignment problem. <i>Transportation Planning and Technology</i> , 2016 , 39, 597-611	1.6	
155	Evolutionary Algorithms for Dynamic Economic Dispatch Problems. <i>IEEE Transactions on Power Systems</i> , 2016 , 31, 1486-1495	7	100
154	Surrogate-assisted optimisation design of composite riser. <i>Proceedings of the Institution of Mechanical Engineers, Part L: Journal of Materials: Design and Applications</i> , 2016 , 230, 18-34	1.3	8
153	A Double Action Genetic Algorithm for Scheduling the Wind-Thermal Generators. <i>Lecture Notes in Computer Science</i> , 2016 , 258-269	0.9	2
152	A Differential Evolution Algorithm for Solving Resource Constrained Project Scheduling Problems. <i>Lecture Notes in Computer Science</i> , 2016 , 209-220	0.9	1
151	A Nested Differential Evolution Based Algorithm for Solving Multi-objective Bilevel Optimization Problems. <i>Lecture Notes in Computer Science</i> , 2016 , 101-112	0.9	0
150	A memetic algorithm for solving bilevel optimization problems with multiple followers 2016 ,		3
149	Use of Infeasible Solutions During Constrained Evolutionary Search: A Short Survey. <i>Lecture Notes in Computer Science</i> , 2016 , 193-205	0.9	15
148	A Study on Performance Metrics to Identify Solutions of Interest from a Trade-Off Set. <i>Lecture Notes in Computer Science</i> , 2016 , 66-77	0.9	11
147	Improving Efficiency of Bi-level Worst Case Optimization. <i>Lecture Notes in Computer Science</i> , 2016 , 410-420	0.9	2
146	A Projection-Based Approach for Constructing Piecewise Linear Pareto Front Approximations. <i>Journal of Mechanical Design, Transactions of the ASME</i> , 2016 , 138,	3	2
145	A multi-objective batch infill strategy for efficient global optimization 2016 ,		3
144	A co-evolutionary approach for optimal bidding strategy of multiple electricity suppliers 2016 ,		3
143	A study on the effectiveness of constraint handling schemes within Efficient Global Optimization framework 2016 ,		3
142	Multi-Objective Optimization With Multiple Spatially Distributed Surrogates. <i>Journal of Mechanical Design, Transactions of the ASME</i> , 2016 , 138,	3	19
141	Multiple surrogate assisted multiobjective optimization using improved pre-selection 2016 ,		11
140	Finding robust solutions for resource constrained project scheduling problems involving uncertainties 2016 ,		2

139	Configuring two-algorithm-based evolutionary approach for solving dynamic economic dispatch problems. <i>Engineering Applications of Artificial Intelligence</i> , 2016 , 53, 105-125	7.2	45
138	Model-based adaptive control system for autonomous underwater vehicles. <i>Ocean Engineering</i> , 2016 , 127, 58-69	3.9	24
137	. <i>IEEE Transactions on Evolutionary Computation</i> , 2015 , 19, 490-507	15.6	39
136	A memetic algorithm for solving single objective bilevel optimization problems 2015 ,		9
135	Characterizing Pareto Front Approximations in Many-objective Optimization 2015 ,		3
134	A differential evolution algorithm with constraint sequencing: An efficient approach for problems with inequality constraints. <i>Applied Soft Computing Journal</i> , 2015 , 36, 101-113	7.5	10
133	. <i>IEEE Transactions on Evolutionary Computation</i> , 2015 , 19, 445-460	15.6	291
132	Selective evaluation in multiobjective optimization: A less explored avenue 2015 ,		2
131	A multi-objective genetic programming approach to uncover explicit and implicit equations from data 2015 ,		2
130	An Approach to Identify Six Sigma Robust Solutions of Multi/Many-Objective Engineering Design Optimization Problems. <i>Journal of Mechanical Design, Transactions of the ASME</i> , 2015 , 137,	3	5
129	Joint power control and resource scheduling in wireless heterogeneous networks 2015 ,		2
128	An Improved Self-Adaptive Constraint Sequencing approach for constrained optimization problems. <i>Applied Mathematics and Computation</i> , 2015 , 253, 23-39	2.7	7
127	An Evolutionary Approach to Resource Allocation in Wireless Small Cell Networks. <i>Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering</i> , 2015 , 718-724	0.2	
126	An Evolutionary Algorithm with Classifier Guided Constraint Evaluation Strategy for Computationally Expensive Optimization Problems. <i>Lecture Notes in Computer Science</i> , 2015 , 49-62	0.9	1
125	Cost to Evaluate Versus Cost to Learn? Performance of Selective Evaluation Strategies in Multiobjective Optimization. <i>Lecture Notes in Computer Science</i> , 2015 , 63-75	0.9	
124	Re-design for Robustness: An Approach Based on Many Objective Optimization. <i>Lecture Notes in Computer Science</i> , 2015 , 343-357	0.9	
123	A surrogate-assisted differential evolution algorithm with dynamic parameters selection for solving expensive optimization problems 2014 ,		14
122	Design and construction of an autonomous underwater vehicle. <i>Neurocomputing</i> , 2014 , 142, 16-29	5.4	32

121	An adaptive hybrid differential evolution algorithm for single objective optimization. <i>Applied Mathematics and Computation</i> , 2014 , 231, 601-618	2.7	34
120	Application specific instance generator and a memetic algorithm for capacitated arc routing problems. <i>Transportation Research Part C: Emerging Technologies</i> , 2014 , 43, 249-266	8.4	6
119	Analytical Hierarchy Process Using Fuzzy Inference Technique for Real-Time Route Guidance System. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2014 , 15, 84-93	6.1	25
118	Validation of algorithms for delamination detection in composite structures using experimental data. <i>Journal of Composite Materials</i> , 2014 , 48, 969-983	2.7	11
117	An efficient memetic algorithm for 3D shape matching problems. <i>Engineering Optimization</i> , 2014 , 46, 687-703	2	1
116	A hybrid surrogate based algorithm (HSBA) to solve computationally expensive optimization problems 2014 ,		2
115	2014 ,		3
114	A benchmark generator for dynamic capacitated arc routing problems 2014 ,		4
113	A memetic algorithm with a new split scheme for solving dynamic capacitated arc routing problems 2014 ,		12
112	Differential Evolution With Dynamic Parameters Selection for Optimization Problems. <i>IEEE Transactions on Evolutionary Computation</i> , 2014 , 18, 689-707	15.6	177
111	Solving an economic and environmental dispatch problem using evolutionary algorithm 2014 ,		5
110	Delamination detection with error and noise polluted natural frequencies using computational intelligence concepts. <i>Composites Part B: Engineering</i> , 2014 , 56, 906-925	10	37
109	A brief taxonomy of autonomous underwater vehicle design literature. <i>Ocean Engineering</i> , 2014 , 88, 627-630	3.9	30
108	Differential evolution with automatic parameter configuration for solving the CEC2013 competition on Real-Parameter Optimization 2013 ,		19
107	Vibration-based inverse algorithms for detection of delamination in composites. <i>Composite Structures</i> , 2013 , 102, 226-236	5.3	75
106	Evaluate till you violate: A differential evolution algorithm based on partial evaluation of the constraint set 2013 ,		8
105	A Decomposition Based Evolutionary Algorithm for Many Objective Optimization with Systematic Sampling and Adaptive Epsilon Control. <i>Lecture Notes in Computer Science</i> , 2013 , 413-427	0.9	19
104	BLACK-BOX TOOL FOR NONLINEAR SYSTEM IDENTIFICATION BASED UPON FUZZY SYSTEM. <i>International Journal of Computational Intelligence and Applications</i> , 2013 , 12, 1350009	1.2	6

103	Optimum oil production planning using infeasibility driven evolutionary algorithm. <i>Evolutionary Computation</i> , 2013 , 21, 65-82	4.3	25
102	A steady state decomposition based quantum genetic algorithm for many objective optimization 2013 ,		6
101	Efficiencies of algorithms for vibration-based delamination detection: A comparative study. <i>Journal of Mechanics of Materials and Structures</i> , 2013 , 8, 247-281	1.2	3
100	Path Planning for the Autonomous Underwater Vehicle. <i>Lecture Notes in Computer Science</i> , 2013 , 476-486.	0.9	5
99	On-Line Adaptive Fuzzy Modeling and Control for Autonomous Underwater Vehicle. <i>Studies in Computational Intelligence</i> , 2013 , 57-70	0.8	5
98	Hybrid Neuro-Fuzzy Network Identification for Autonomous Underwater Vehicles. <i>Lecture Notes in Computer Science</i> , 2013 , 287-297	0.9	1
97	A Hydrodynamic Preliminary Design Optimization Framework for High Speed Planing Craft. <i>Journal of Ship Research</i> , 2012 , 56, 35-47	0.9	6
96	Memetic Algorithms in Constrained Optimization. <i>Studies in Computational Intelligence</i> , 2012 , 135-151	0.8	3
95	A Differential Evolution Algorithm with Constraint Sequencing 2012 ,		3
94	Equality Constrained Multi-objective optimization 2012 ,		5
93	A smart repair embedded memetic algorithm for 2D shape matching problems. <i>Engineering Optimization</i> , 2012 , 44, 1229-1243	2	3
92	A repair mechanism for active inequality constraint handling 2012 ,		2
91	Parameters adaptation in Differential Evolution 2012 ,		9
90	An Evolutionary Approach for the Design of Autonomous Underwater Vehicles. <i>Lecture Notes in Computer Science</i> , 2012 , 279-290	0.9	1
89	Adaptive route guidance system with real-time traffic information 2012 ,		2
88	An adaptive constraint handling approach embedded MOEA/D 2012 ,		41
87	A new robust design optimization approach for unmanned underwater vehicle design. <i>Proceedings of the Institution of Mechanical Engineers Part M: Journal of Engineering for the Maritime Environment</i> , 2012 , 226, 235-249	0.4	12
86	Delamination detection using methods of computational intelligence 2012 ,		3

85	Comparison of Inverse Algorithms for Delamination Detection in Composite Laminates 2012 ,		1
84	Hull Surface Information Retrieval and Optimization of High Speed Planing Craft. <i>IOP Conference Series: Materials Science and Engineering</i> , 2012 , 36, 012034	0.4	
83	A Memetic Algorithm for Efficient Solution of 2D and 3D Shape Matching Problems. <i>Lecture Notes in Computer Science</i> , 2012 , 362-372	0.9	1
82	Efficient Solution of Capacitated Arc Routing Problems with a Limited Computational Budget. <i>Lecture Notes in Computer Science</i> , 2012 , 791-802	0.9	1
81	A Self-adaptive Differential Evolution Algorithm with Constraint Sequencing. <i>Lecture Notes in Computer Science</i> , 2012 , 182-193	0.9	5
80	Design of a toy submarine using underwater vehicle design optimization framework 2011 ,		6
79	A Pareto Corner Search Evolutionary Algorithm and Dimensionality Reduction in Many-Objective Optimization Problems. <i>IEEE Transactions on Evolutionary Computation</i> , 2011 , 15, 539-556	15.6	197
78	Prediction of low cycle fatigue life of short fibre composites at elevated temperatures using surrogate modelling. <i>Composites Part B: Engineering</i> , 2011 , 42, 1453-1460	10	15
77	Scenario-based hydrodynamic design optimization of high speed planing craft for coastal surveillance 2011 ,		1
76	Uncovering secrets behind low-resistance planing craft hull forms through optimization. <i>Engineering Optimization</i> , 2011 , 43, 1161-1173	2	
75	Fuzzy modeling and control for Autonomous Underwater Vehicle 2011 ,		13
74	How does the good old Genetic Algorithm fare at real world optimization? 2011 ,		9
73	Short-term traffic flow prediction using different techniques 2011 ,		3
72	2011 ,		27
71	Full Flow-Path Optimization of Axisymmetric Scramjet Engines 2011 ,		4
70	Practical Robust Design Optimization Using Evolutionary Algorithms. <i>Journal of Mechanical Design, Transactions of the ASME</i> , 2011 , 133,	3	17
69	Towards practical evolutionary robust multi-objective optimization 2011 ,		8
68	Performance of a hybrid EA-DE-memetic algorithm on CEC 2011 real world optimization problems 2011 ,		15

67	A novel evolutionary approach for 2D shape matching based on B-spline modeling 2011 ,		3
66	Performance of infeasibility empowered memetic algorithm for CEC 2010 constrained optimization problems 2010 ,		24
65	Surrogate assisted Simulated Annealing (SASA) for constrained multi-objective optimization 2010 ,		17
64	Divide and Conquer in Coevolution: A Difficult Balancing Act. <i>Adaptation, Learning, and Optimization</i> , 2010 , 117-138	0.7	13
63	Agent Based Evolutionary Approach: An Introduction. <i>Adaptation, Learning, and Optimization</i> , 2010 , 1-11	0.7	2
62	A computationally efficient approach for NN based system identification of a rotary wing UAV. <i>International Journal of Control, Automation and Systems</i> , 2010 , 8, 727-734	2.9	2
61	C-PSA: Constrained Pareto simulated annealing for constrained multi-objective optimization. <i>Information Sciences</i> , 2010 , 180, 2499-2513	7.7	46
60	Performance of Infeasibility Empowered Memetic Algorithm (IEMA) on Engineering Design Problems. <i>Lecture Notes in Computer Science</i> , 2010 , 425-434	0.9	2
59	Memetic algorithm for dynamic bi-objective optimization problems 2009 ,		4
58	2009 ,		62
57	An improved secondary ranking for many objective optimization problems 2009 ,		2
56	A Memetic Algorithm for Dynamic Multiobjective Optimization. <i>Studies in Computational Intelligence</i> , 2009 , 353-367	0.8	4
55	An improved evolutionary algorithm for solving multi-objective crop planning models. <i>Computers and Electronics in Agriculture</i> , 2009 , 68, 191-199	6.5	74
54	Infeasibility Driven Evolutionary Algorithm for Constrained Optimization. <i>Studies in Computational Intelligence</i> , 2009 , 145-165	0.8	80
53	Constrained many-objective optimization: A way forward 2009 ,		11
52	Performance of infeasibility driven evolutionary algorithm (IDEA) on constrained dynamic single objective optimization problems 2009 ,		39
51	Multi-objective design optimisation using multiple adaptive spatially distributed surrogates. <i>International Journal of Product Development</i> , 2009 , 9, 188	0.7	18
50	Development of a memetic algorithm for Dynamic Multi-Objective Optimization and its applications for online neural network modeling of UAVs 2008 ,		13

49	Evolutionary Algorithm Shape Optimization of a Hypersonic Flight Experiment Nose Cone. <i>Journal of Spacecraft and Rockets</i> , 2008 , 45, 428-437	1.5	24
48	A simulated annealing algorithm for constrained Multi-Objective Optimization 2008 ,		4
47	Blessings of maintaining infeasible solutions for constrained multi-objective optimization problems 2008 ,		26
46	A Simulated Annealing Algorithm for Single Objective Trans-Dimensional Optimization Problems 2008 ,		3
45	Surrogate Assisted Evolutionary Algorithm for Multi-Objective Optimization. <i>Advances in Process Systems Engineering</i> , 2008 , 131-151		15
44	Set Representation and Multi-parent Learning within an Evolutionary Algorithm for Optimal Design of Trusses. <i>Studies in Computational Intelligence</i> , 2008 , 419-439	0.8	
43	EA for solving combined machine layout and job assignment problems. <i>Journal of Industrial and Management Optimization</i> , 2008 , 4, 631-646	2	3
42	An Efficient Hybrid Algorithm for Optimization of Discrete Structures. <i>Lecture Notes in Computer Science</i> , 2008 , 625-634	0.9	
41	Infeasibility Driven Evolutionary Algorithm (IDEA) for Engineering Design Optimization. <i>Lecture Notes in Computer Science</i> , 2008 , 104-115	0.9	22
40	A Study on the Performance of Substitute Distance Based Approaches for Evolutionary Many Objective Optimization. <i>Lecture Notes in Computer Science</i> , 2008 , 401-410	0.9	26
39	Genetic algorithm for solving a gas lift optimization problem. <i>Journal of Petroleum Science and Engineering</i> , 2007 , 59, 84-96	4.4	44
38	Optimal design of an Australian medium launch vehicle. <i>Innovations in Systems and Software Engineering</i> , 2007 , 3, 105-116	1.1	4
37	Novel evolutionary algorithm with set representation scheme for truss design 2007 ,		2
36	An evolutionary algorithm for machine layout and job assignment problems 2007 ,		4
35	Optimal offline path planning of a fixed wing unmanned aerial vehicle (UAV) using an evolutionary algorithm 2007 ,		6
34	A Hybrid Evolutionary Algorithm With Simplex Local Search 2007 ,		7
33	Evolutionary Algorithm Use in Optimisation of a Launch Vehicle Stack Model 2007 ,		2
32	Comparative Analysis of Multiple Neural Networks for Online Identification of a UAV 2007 , 120-129		1

31	Optimum Oil Production Planning using an Evolutionary Approach. <i>Studies in Computational Intelligence</i> , 2007 , 273-292	0.8	5
30	An Evolutionary Algorithm with Spatially Distributed Surrogates for Multiobjective Optimization. <i>Lecture Notes in Computer Science</i> , 2007 , 257-268	0.9	23
29	Computational Swarm Strategies for Single Objective Design Optimization Problems. <i>International Journal for Computational Methods in Engineering Science and Mechanics</i> , 2006 , 8, 11-21	0.7	
28	Surrogate Assisted Evolutionary Algorithm for Multiobjective Optimization 2006 ,		5
27	Robust Design Optimization of Two-Dimensional Scramjet Inlets 2006 ,		4
26	A surrogate assisted parallel multiobjective evolutionary algorithm for robust engineering design. <i>Engineering Optimization</i> , 2006 , 38, 997-1011	2	55
25	A Neural-Network-Assisted Optimization Framework and Its Use for Optimum-Parameter Identification 2006 , 221-235		1
24	A framework for design optimization using surrogates. <i>Engineering Optimization</i> , 2005 , 37, 685-703	2	39
23	Multilayer dielectric filter design using a multiobjective evolutionary algorithm. <i>IEEE Transactions on Antennas and Propagation</i> , 2005 , 53, 3625-3632	4.9	22
22	Flutter Simulation and Prediction Via Identification of Non-Linear Impulse Response 2005 ,		4
21	An Evolutionary Algorithm for Constrained Bi-objective Optimization Using Radial Slots. <i>Lecture Notes in Computer Science</i> , 2005 , 49-56	0.9	6
20	Optimal process design of sheet metal forming for minimum springback via an integrated neural network evolutionary algorithm. <i>Structural and Multidisciplinary Optimization</i> , 2004 , 26, 284-294	3.6	23
19	Leader identification and leader selection: its effect on a swarm's performance for multi-objective design optimization problems. <i>Structural and Multidisciplinary Optimization</i> , 2004 , 28, 156	3.6	6
18	On the use of computational intelligence in the optimal shape control of functionally graded smart plates. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2004 , 193, 4475-4492	5.7	22
17	Swarm Algorithm for Single- and Multiobjective Airfoil Design Optimization. <i>AIAA Journal</i> , 2004 , 42, 366-373		31
16	Optimum design of Yagi-Uda antennas using computational intelligence. <i>IEEE Transactions on Antennas and Propagation</i> , 2004 , 52, 1811-1818	4.9	35
15	A Parallel Hybrid Optimization Algorithm for Robust Airfoil Design 2004 ,		4
14	APPLICATIONS OF MULTI-OBJECTIVE EVOLUTIONARY ALGORITHMS IN ENGINEERING DESIGN. <i>Advances in Natural Computation</i> , 2004 , 29-52		2

13	Golinski's Speed Reducer Problem Revisited. <i>AIAA Journal</i> , 2003 , 41, 556-558	2.1	15
12	Society and civilization: An optimization algorithm based on the simulation of social behavior. <i>IEEE Transactions on Evolutionary Computation</i> , 2003 , 7, 386-396	15.6	350
11	Evolutionary Optimization and Use of Neural Network for Optimum Stamping Process Design for Minimum Springback. <i>Journal of Computing and Information Science in Engineering</i> , 2002 , 2, 38-44	2.4	5
10	Design Synthesis of Path Generating Compliant Mechanisms by Evolutionary Optimization of Topology and Shape. <i>Journal of Mechanical Design, Transactions of the ASME</i> , 2002 , 124, 492-500	3	61
9	A Swarm Metaphor for Multiobjective Design Optimization. <i>Engineering Optimization</i> , 2002 , 34, 141-153	2	200
8	A socio-behavioural simulation model for engineering design optimization. <i>Engineering Optimization</i> , 2002 , 34, 341-354	2	122
7	MULTIOBJECTIVE DESIGN OPTIMIZATION BY AN EVOLUTIONARY ALGORITHM. <i>Engineering Optimization</i> , 2001 , 33, 399-424	2	186
6	ENGINEERING DESIGN OPTIMIZATION USING A SWARM WITH AN INTELLIGENT INFORMATION SHARING AMONG INDIVIDUALS. <i>Engineering Optimization</i> , 2001 , 33, 735-748	2	197
5	Neural network applications in naval architecture and marine engineering. <i>Advanced Engineering Informatics</i> , 1996 , 10, 213-226		17
4	A global optimization model for ship design. <i>Computers in Industry</i> , 1995 , 26, 175-192	11.6	27
3	Single and multi-objective design of Yagi-Uda antennas using computational intelligence		12
2	Constrained robust optimal design using a multiobjective evolutionary algorithm		24
1	Adjusting normalization bounds to improve hypervolume based search for expensive multi-objective optimization. <i>Complex & Intelligent Systems</i> , 1	7.1	1