Shengxiang Yang

List of Publications by Year in Descending Order

271 papers	8,667 citations	47 h-index	86 g-index
304 ext. papers	11,067 ext. citations	5.6 avg, IF	7.07 L-index

#	Paper	IF	Citations
271	Dynamic Transfer Reference Point Oriented MOEA/D Involving Local Objective-Space Knowledge. *IEEE Transactions on Evolutionary Computation*, **2022**, 1-1	15.6	1
270	Combining a Hybrid Prediction Strategy and a Mutation Strategy for Dynamic Multiobjective Optimization. *Swarm and Evolutionary Computation*, **2022**, 70, 101041	9.8	0
269	A multiobjective state transition algorithm based on modified decomposition method. *Applied Soft Computing Journal*, **2022**, 119, 108553	7.5	0
268	PopDMMO: A general framework of population-based stochastic search algorithms for dynamic multimodal optimization. *Swarm and Evolutionary Computation*, **2022**, 68, 101011	9.8	0
267	An Angle-Based Bi-Objective Optimization Algorithm for Redundancy Allocation in Presence of Interval Uncertainty. *IEEE Transactions on Automation Science and Engineering*, **2022**, 1-14	4.9	0
266	A real use case of semi-supervised learning for mammogram classification in a local clinic of Costa Rica.. *Medical and Biological Engineering and Computing*, **2022**, 60, 1159	3.1	1
265	Dealing with distribution mismatch in semi-supervised deep learning for COVID-19 detection using chest X-ray images: A novel approach using feature densities.. *Applied Soft Computing Journal*, **2022**, 123, 108983	7.5	3
264	A Level-based Multi-strategy Learning Swarm Optimizer for Large-Scale Multi-objective Optimization. *Swarm and Evolutionary Computation*, **2022**, 101100	9.8	1
263	Handling Constrained Many-Objective Optimization Problems via Problem Transformation. *IEEE Transactions on Cybernetics*, **2021**, 51, 4834-4847	10.2	13
262	Classification in Dynamic Data Streams with a Scarcity of Labels. *IEEE Transactions on Knowledge and Data Engineering*, **2021**, 1-1	4.2	0
261	A modular neural network-based population prediction strategy for evolutionary dynamic multi-objective optimization. *Swarm and Evolutionary Computation*, **2021**, 62, 100829	9.8	2
260	An infeasible solutions diversity maintenance epsilon constraint handling method for evolutionary constrained multiobjective optimization. *Soft Computing*, **2021**, 25, 8051-8062	3.5	3
259	Adaptive Multipopulation Evolutionary Algorithm for Contamination Source Identification in Water Distribution Systems. *Journal of Water Resources Planning and Management - ASCE*, **2021**, 147, 04021014	2.8	1
258	A feedback-based prediction strategy for dynamic multi-objective evolutionary optimization. *Expert Systems With Applications*, **2021**, 172, 114594	7.8	2
257	A decision variable classification-based cooperative coevolutionary algorithm for dynamic multiobjective optimization. *Information Sciences*, **2021**, 560, 307-330	7.7	1
256	A random benchmark suite and a new reaction strategy in dynamic multiobjective optimization. *Swarm and Evolutionary Computation*, **2021**, 63, 100867	9.8	0
255	Improving Uncertainty Estimations for Mammogram Classification using Semi-Supervised Learning **2021**,		6

254	A many-objective evolutionary algorithm based on rotation and decomposition. *Swarm and Evolutionary Computation*, **2021**, 60, 100775	9.8	2
253	A prediction strategy based on decision variable analysis for dynamic Multi-objective Optimization. *Swarm and Evolutionary Computation*, **2021**, 60, 100786	9.8	6
252	A many-objective algorithm based on staged coordination selection. *Swarm and Evolutionary Computation*, **2021**, 60, 100737	9.8	2
251	Achievement scalarizing function sorting for strength Pareto evolutionary algorithm in many-objective optimization. *Neural Computing and Applications*, **2021**, 33, 6369-6388	4.8	1
250	A novel discrete bat algorithm for heterogeneous redundancy allocation of multi-state systems subject to probabilistic common-cause failure. *Reliability Engineering and System Safety*, **2021**, 208, 107338	6.3	7
249	Dealing with Scarce Labelled Data: Semi-supervised Deep Learning with Mix Match for Covid-19 Detection Using Chest X-ray Images **2021**,		6
248	An Adaptive Localized Decision Variable Analysis Approach to Large-Scale Multiobjective and Many-Objective Optimization. *IEEE Transactions on Cybernetics*, **2021**, PP,	10.2	66
247	Dynamic Multi-objective Optimization for Multi-objective Vehicle Routing Problem with Real-time Traffic Conditions. *Studies in Systems, Decision and Control*, **2021**, 289-307	0.8	
246	Improving Uncertainty Estimation With Semi-Supervised Deep Learning for COVID-19 Detection Using Chest X-Ray Images. *IEEE Access*, **2021**, 9, 85442-85454	3.5	11
245	Learning to Optimize: Reference Vector Reinforcement Learning Adaption to Constrained Many-Objective Optimization of Industrial Copper Burdening System. *IEEE Transactions on Cybernetics*, **2021**, PP,	10.2	20
244	Solving dynamic multi-objective problems with a new prediction-based optimization algorithm. *PLoS ONE*, **2021**, 16, e0254839	3.7	0
243	A Dynamic Multi-objective Particle Swarm Optimization Algorithm Based on Adversarial Decomposition and Neighborhood Evolution. *Swarm and Evolutionary Computation*, **2021**, 100987	9.8	2
242	Niche-based and angle-based selection strategies for many-objective evolutionary optimization. *Information Sciences*, **2021**, 571, 133-153	7.7	1
241	Dynamic multi-objective optimization algorithm based decomposition and preference. *Information Sciences*, **2021**, 571, 175-190	7.7	2
240	A constrained multi-objective evolutionary strategy based on population state detection. *Swarm and Evolutionary Computation*, **2021**, 68, 100978	9.8	0
239	A two-archive algorithm with decomposition and fitness allocation for multi-modal multi-objective optimization. *Information Sciences*, **2021**, 574, 413-430	7.7	6
238	Correcting data imbalance for semi-supervised COVID-19 detection using X-ray chest images. *Applied Soft Computing Journal*, **2021**, 111, 107692	7.5	14
237	A dual-population algorithm based on alternative evolution and degeneration for solving constrained multi-objective optimization problems. *Information Sciences*, **2021**, 579, 89-102	7.7	7

236	A many-objective evolutionary algorithm based on dominance and decomposition with reference point adaptation. *Knowledge-Based Systems*, **2021**, 231, 107392	7.3	1
235	Evolutionary Multiobjective Clustering Algorithms With Ensemble for Patient Stratification. *IEEE Transactions on Cybernetics*, **2021**, PP,	10.2	3
234	Multiobjective Deep Clustering and Its Applications in Single-cell RNA-seq Data. *IEEE Transactions on Systems, Man, and Cybernetics: Systems*, **2021**, 1-12	7.3	0
233	Multiview Subspace Clustering Using Low-Rank Representation. *IEEE Transactions on Cybernetics*, **2021**, PP,	10.2	5
232	Model-Based Rate-Distortion Optimized Video-Based Point Cloud Compression with Differential Evolution. *Lecture Notes in Computer Science*, **2021**, 735-747	0.9	2
231	A Dynamic Multiobjective Evolutionary Algorithm Based on Decision Variable Classification. *IEEE Transactions on Cybernetics*, **2020**,	10.2	6
230	A close neighbor mobility method using particle swarm optimizer for solving multimodal optimization problems. *Information Sciences*, **2020**, 519, 332-347	7.7	23
229	A dynamic multi-objective evolutionary algorithm based on intensity of environmental change. *Information Sciences*, **2020**, 523, 49-62	7.7	9
228	Ra-dominance: A new dominance relationship for preference-based evolutionary multiobjective optimization. *Applied Soft Computing Journal*, **2020**, 90, 106192	7.5	5
227	. *IEEE Computational Intelligence Magazine*, **2020**, 15, 52-63	5.6	14
226	An improved multiobjective optimization evolutionary algorithm based on decomposition with hybrid penalty scheme **2020**,		1
225	A Novel Multi-objective Evolutionary Algorithm Based on Space Partitioning. *Communications in Computer and Information Science*, **2020**, 127-142	0.3	
224	Solving dynamic multi-objective problems with an evolutionary multi-directional search approach. *Knowledge-Based Systems*, **2020**, 194, 105175	7.3	4
223	Constrained Operational Optimization of a Distillation Unit in Refineries With Varying Feedstock Properties. *IEEE Transactions on Control Systems Technology*, **2020**, 28, 2752-2761	4.8	4
222	A Novel Evolutionary Algorithm for Dynamic Constrained Multiobjective Optimization Problems. *IEEE Transactions on Evolutionary Computation*, **2020**, 24, 792-806	15.6	20
221	AREA: An adaptive reference-set based evolutionary algorithm for multiobjective optimisation. *Information Sciences*, **2020**, 515, 365-387	7.7	6
220	A New Crossover Mechanism for Genetic Algorithms for Steiner Tree Optimization. *IEEE Transactions on Cybernetics*, **2020**, PP,	10.2	2
219	Analysis and multi-objective optimization of slag powder process. *Applied Soft Computing Journal*, **2020**, 96, 106587	7.5	1

218	A First Glance to the Quality Assessment of Dental Photostimulable Phosphor Plates with Deep Learning **2020**,		2
217	Particle Swarm Optimisation for Scheduling Electric Vehicles with Microgrids **2020**,		2
216	Evolutionary Approach to Multiparty Multiobjective Optimization Problems with Common Pareto Optimal Solutions **2020**,		2
215	A Scalable Test Suite for Continuous Dynamic Multiobjective Optimization. *IEEE Transactions on Cybernetics*, **2020**, 50, 2814-2826	10.2	14
214	A Similarity-Based Cooperative Co-Evolutionary Algorithm for Dynamic Interval Multiobjective Optimization Problems. *IEEE Transactions on Evolutionary Computation*, **2020**, 24, 142-156	15.6	66
213	Energy Consumption Forecasting for the Nonferrous Metallurgy Industry Using Hybrid Support Vector Regression with an Adaptive State Transition Algorithm. *Cognitive Computation*, **2020**, 12, 357-368	4.4	8
212	An adaptive hybrid evolutionary immune multi-objective algorithm based on uniform distribution selection. *Information Sciences*, **2020**, 512, 446-470	7.7	19
211	Novel Prediction Strategies for Dynamic Multiobjective Optimization. *IEEE Transactions on Evolutionary Computation*, **2020**, 24, 260-274	15.6	24
210	Hybrid of memory and prediction strategies for dynamic multiobjective optimization. *Information Sciences*, **2019**, 485, 200-218	7.7	30
209	An adaptation reference-point-based multiobjective evolutionary algorithm. *Information Sciences*, **2019**, 488, 41-57	7.7	11
208	Ant Colony Stream Clustering: A Fast Density Clustering Algorithm for Dynamic Data Streams. *IEEE Transactions on Cybernetics*, **2019**, 49, 2215-2228	10.2	34
207	A Multiobjective Evolutionary Algorithm Based on Coordinate Transformation. *IEEE Transactions on Cybernetics*, **2019**, 49, 2732-2743	10.2	13
206	Biology migration algorithm: a new nature-inspired heuristic methodology for global optimization. *Soft Computing*, **2019**, 23, 7333-7358	3.5	16
205	Evolutionary dynamic constrained optimization: Test suite construction and algorithm comparisons. *Swarm and Evolutionary Computation*, **2019**, 50, 100559	9.8	11
204	. *IEEE Access*, **2019**, 7, 127128-127140	3.5	8
203	. *IEEE Transactions on Big Data*, **2019**, 1-1	3.2	7
202	An improved particle swarm optimization algorithm for dynamic job shop scheduling problems with random job arrivals. *Swarm and Evolutionary Computation*, **2019**, 51, 100594	9.8	32
201	A pareto-based evolutionary algorithm using decomposition and truncation for dynamic multi-objective optimization. *Applied Soft Computing Journal*, **2019**, 85, 105673	7.5	19

200	Genetic Algorithm for Independent Job Scheduling in Grid Computing. *Mendel*, **2019**, 23, 65-72	1.4	7
199	Robustness and Evolutionary Dynamic Optimisation of Airport Security Schedules. *Advances in Intelligent Systems and Computing*, **2019**, 27-39	0.4	
198	A framework for inducing artificial changes in optimization problems. *Information Sciences*, **2019**, 485, 486-504	7.7	2
197	A knee-point-based evolutionary algorithm using weighted subpopulation for many-objective optimization. *Swarm and Evolutionary Computation*, **2019**, 47, 33-43	9.8	14
196	A decomposition-based multiobjective evolutionary algorithm with angle-based adaptive penalty. *Applied Soft Computing Journal*, **2019**, 74, 190-205	7.5	17
195	A Pareto-based many-objective evolutionary algorithm using space partitioning selection and angle-based truncation. *Information Sciences*, **2019**, 478, 186-207	7.7	15
194	An Adaptive Framework to Tune the Coordinate Systems in Nature-Inspired Optimization Algorithms. *IEEE Transactions on Cybernetics*, **2019**, 49, 1403-1416	10.2	21
193	A dynamic multiobjective evolutionary algorithm based on a dynamic evolutionary environment model. *Swarm and Evolutionary Computation*, **2019**, 44, 247-259	9.8	15
192	A predictive strategy based on special points for evolutionary dynamic multi-objective optimization. *Soft Computing*, **2019**, 23, 3723-3739	3.5	24
191	Accelerating differential evolution based on a subset-to-subset survivor selection operator. *Soft Computing*, **2019**, 23, 4113-4130	3.5	6
190	Global and Local Surrogate-Assisted Differential Evolution for Expensive Constrained Optimization Problems With Inequality Constraints. *IEEE Transactions on Cybernetics*, **2019**, 49, 1642-1656	10.2	57
189	Differential Evolution With a New Encoding Mechanism for Optimizing Wind Farm Layout. *IEEE Transactions on Industrial Informatics*, **2018**, 14, 1040-1054	11.9	62
188	A many-objective evolutionary algorithm based on rotated grid. *Applied Soft Computing Journal*, **2018**, 67, 596-609	7.5	19
187	Multiline Distance Minimization: A Visualized Many-Objective Test Problem Suite. *IEEE Transactions on Evolutionary Computation*, **2018**, 22, 61-78	15.6	37
186	Scalarizing Functions in Decomposition-Based Multiobjective Evolutionary Algorithms. *IEEE Transactions on Evolutionary Computation*, **2018**, 22, 296-313	15.6	48
185	Adaptive neighborhood selection for many-objective optimization problems. *Applied Soft Computing Journal*, **2018**, 64, 186-198	7.5	10
184	Multiobjective optimization of the production process for ground granulated blast furnace slags. *Soft Computing*, **2018**, 22, 8177-8186	3.5	3
183	An Evolutionary Dynamic Multi-objective Optimization Algorithm Based on Center-point Prediction and Sub-population Autonomous Guidance **2018**,		3

182	Less detectable environmental changes in dynamic multiobjective optimisation **2018**,		3
181	A Performance Indicator for Reference-Point-Based Multiobjective Evolutionary Optimization **2018** ,		4
180	An Empirical Study of Dynamic Triobjective Optimisation Problems **2018**,		3
179	A Loosely Coupled Hybrid Meta-Heuristic Algorithm for the Static Independent Task Scheduling Problem in Grid Computing **2018**,		1
178	Hybrid meta-heuristic algorithms for independent job scheduling in grid computing. *Applied Soft Computing Journal*, **2018**, 72, 498-517	7.5	18
177	Improving the multiobjective evolutionary algorithm based on decomposition with new penalty schemes. *Soft Computing*, **2017**, 21, 4677-4691	3.5	38
176	Evolutionary Dynamic Multiobjective Optimization: Benchmarks and Algorithm Comparisons. *IEEE Transactions on Cybernetics*, **2017**, 47, 198-211	10.2	90
175	Ant Colony Optimization With Local Search for Dynamic Traveling Salesman Problems. *IEEE Transactions on Cybernetics*, **2017**, 47, 1743-1756	10.2	108
174	A survey of swarm intelligence for dynamic optimization: Algorithms and applications. *Swarm and Evolutionary Computation*, **2017**, 33, 1-17	9.8	300
173	A Two-Phase Differential Evolution for Uniform Designs in Constrained Experimental Domains. *IEEE Transactions on Evolutionary Computation*, **2017**, 21, 665-680	15.6	47
172	Ant Colony Optimization for Simulated Dynamic Multi-Objective Railway Junction Rescheduling. *IEEE Transactions on Intelligent Transportation Systems*, **2017**, 18, 2980-2992	6.1	38
171	Meta-Heuristically Seeded Genetic Algorithm for Independent Job Scheduling in Grid Computing. *Lecture Notes in Computer Science*, **2017**, 177-189	0.9	2
170	A benchmark test suite for evolutionary many-objective optimization. *Complex & Intelligent Systems* , **2017**, 3, 67-81	7.1	187
169	The effect of diversity maintenance on prediction in dynamic multi-objective optimization. *Applied Soft Computing Journal*, **2017**, 58, 631-647	7.5	70
168	A Strength Pareto Evolutionary Algorithm Based on Reference Direction for Multiobjective and Many-Objective Optimization. *IEEE Transactions on Evolutionary Computation*, **2017**, 21, 329-346	15.6	196
167	A Weighted Biobjective Transformation Technique for Locating Multiple Optimal Solutions of Nonlinear Equation Systems. *IEEE Transactions on Evolutionary Computation*, **2017**, 21, 697-713	15.6	41
166	A prediction strategy based on center points and knee points for evolutionary dynamic multi-objective optimization. *Applied Soft Computing Journal*, **2017**, 61, 806-818	7.5	57
165	A green intelligent routing algorithm supporting flexible QoS for many-to-many multicast. *Computer Networks*, **2017**, 126, 229-245	5.4	7

164	Finding Multi-Density Clusters in non-stationary data streams using an Ant Colony with adaptive parameters **2017**,		2
163	A Steady-State and Generational Evolutionary Algorithm for Dynamic Multiobjective Optimization. *IEEE Transactions on Evolutionary Computation*, **2017**, 21, 65-82	15.6	124
162	Dynamic Stream Clustering Using Ants. *Advances in Intelligent Systems and Computing*, **2017**, 495-508	0.4	6
161	Pheromone modification strategy for the dynamic travelling salesman problem with weight changes **2017**,		1
160	Pre-scheduled Colony Size Variation in Dynamic Environments. *Lecture Notes in Computer Science*, **2017**, 128-139	0.9	
159	Convergence Versus Diversity in Multiobjective Optimization. *Lecture Notes in Computer Science*, **2016**, 984-993	0.9	12
158	Ant colony optimization with immigrants schemes for the dynamic railway junction rescheduling problem with multiple delays. *Soft Computing*, **2016**, 20, 2951-2966	3.5	13
157	A clique-based online algorithm for constructing optical orthogonal codes. *Applied Soft Computing Journal*, **2016**, 47, 21-32	7.5	1
156	An Improved Multiobjective Optimization Evolutionary Algorithm Based on Decomposition for Complex Pareto Fronts. *IEEE Transactions on Cybernetics*, **2016**, 46, 421-37	10.2	140
155	Pareto or Non-Pareto: Bi-Criterion Evolution in Multiobjective Optimization. *IEEE Transactions on Evolutionary Computation*, **2016**, 20, 645-665	15.6	157
154	. *IEEE Transactions on Evolutionary Computation*, **2016**, 20, 590-605	15.6	52
153	Direct Memory Schemes for Population-Based Incremental Learning in Cyclically Changing Environments. *Lecture Notes in Computer Science*, **2016**, 233-247	0.9	2
152	Artificially Inducing Environmental Changes in Evolutionary Dynamic Optimization. *Lecture Notes in Computer Science*, **2016**, 225-236	0.9	
151	Railway platform reallocation after dynamic perturbations using ant colony optimisation **2016**,		1
150	A comparative study of constraint-handling techniques in evolutionary constrained multiobjective optimization **2016**,		25
149	Evolutionary dynamic optimisation of airport security lane schedules **2016**,		1
148	**2016**,		3
147	Differential evolution with a two-stage optimization mechanism for numerical optimization **2016**,		19

146	An adaptive penalty-based boundary intersection approach for multiobjective evolutionary algorithm based on decomposition **2016**,		3
145	An Ant Colony Optimization Based Memetic Algorithm for the Dynamic Travelling Salesman Problem **2015**,		12
144	Bi-goal evolution for many-objective optimization problems. *Artificial Intelligence*, **2015**, 228, 45-65	3.6	154
143	. *IEEE Transactions on Intelligent Transportation Systems*, **2015**, 16, 2997-3016	6.1	89
142	A Performance Comparison Indicator for Pareto Front Approximations in Many-Objective Optimization **2015**,		21
141	Evolutionary Computation for Dynamic Optimization Problems **2015**,		6
140	Ant algorithms with immigrants schemes for the dynamic vehicle routing problem. *Information Sciences*, **2015**, 294, 456-477	7.7	64
139	Multi-population methods in unconstrained continuous dynamic environments: The challenges. *Information Sciences*, **2015**, 296, 95-118	7.7	57
138	Training neural networks with ant colony optimization algorithms for pattern classification. *Soft Computing*, **2015**, 19, 1511-1522	3.5	54
137	An adaptive local search algorithm for real-valued dynamic optimization **2015**,		10
136	Towards Knowledge Driven Decision Support for Personalized Home-Based Self-Management of Chronic Diseases **2015**,		3
135	Population-Based Incremental Learning with Immigrants Schemes in Changing Environments **2015**,		4
134	In silico discovery of significant pathways in colorectal cancer metastasis using a two-stage optimisation approach. *IET Systems Biology*, **2015**, 9, 294-302	1.4	6
133	Applying Ant Colony Optimization to Dynamic Binary-Encoded Problems. *Lecture Notes in Computer Science*, **2015**, 845-856	0.9	2
132	Evolutionary algorithms with segment-based search for multiobjective optimization problems. *IEEE Transactions on Cybernetics*, **2014**, 44, 1295-313	10.2	77
131	Analysis of fitness landscape modifications in evolutionary dynamic optimization. *Information Sciences*, **2014**, 282, 214-236	7.7	12
130	Shift-Based Density Estimation for Pareto-Based Algorithms in Many-Objective Optimization. *IEEE Transactions on Evolutionary Computation*, **2014**, 18, 348-365	15.6	476
129	Multifurnace Optimization in Electric Smelting Plants by Load Scheduling and Control. *IEEE Transactions on Automation Science and Engineering*, **2014**, 11, 850-862	4.9	10

128	ETEA: a Euclidean minimum spanning tree-based evolutionary algorithm for multi-objective optimization. *Evolutionary Computation*, **2014**, 22, 189-230	4.3	35
127	Multi-colony ant algorithms for the dynamic travelling salesman problem **2014**,		16
126	Ant colony optimization for scheduling walking beam reheating furnaces **2014**,		1
125	Ant colony optimization with self-adaptive evaporation rate in dynamic environments **2014**,		11
124	An adaptive multi-swarm optimizer for dynamic optimization problems. *Evolutionary Computation*, **2014**, 22, 559-94	4.3	46
123	A benchmark generator for dynamic multi-objective optimization problems **2014**,		6
122	Elitism-based immigrants for ant colony optimization in dynamic environments: Adapting the replacement rate **2014**,		1
121	A test problem for visual investigation of high-dimensional multi-objective search **2014**,		15
120	Interactive and non-interactive hybrid immigrants schemes for ant algorithms in dynamic environments **2014**,		7
119	A framework of scalable dynamic test problems for dynamic multi-objective optimization **2014**,		15
118	**2014**,		4
117	Diversity comparison of Pareto front approximations in many-objective optimization. *IEEE Transactions on Cybernetics*, **2014**, 44, 2568-84	10.2	122
116	A Grid-Based Evolutionary Algorithm for Many-Objective Optimization. *IEEE Transactions on Evolutionary Computation*, **2013**, 17, 721-736	15.6	608
115	A Comparative Study on Evolutionary Algorithms for Many-Objective Optimization. *Lecture Notes in Computer Science*, **2013**, 261-275	0.9	37
114	Fourth party logistics routing problem model with fuzzy duration time and cost discount. *Knowledge-Based Systems*, **2013**, 50, 14-24	7.3	19
113	Ant colony optimization with immigrants schemes for the dynamic travelling salesman problem with traffic factors. *Applied Soft Computing Journal*, **2013**, 13, 4023-4037	7.5	99
112	Evolving neural networks using ant colony optimization with pheromone trail limits **2013**,		10
111	Evolutionary computation for dynamic optimization problems **2013**,		3

110	Dynamic genetic algorithms for the dynamic load balanced clustering problem in mobile ad hoc networks. *Expert Systems With Applications*, **2013**, 40, 1381-1392	7.8	50
109	A hybrid evolutionary multiobjective optimization strategy for the dynamic power supply problem in magnesia grain manufacturing. *Applied Soft Computing Journal*, **2013**, 13, 2960-2969	7.5	30
108	Multi-Population Methods with Adaptive Mutation for Multi-Modal Optimization Problems. *International Journal on Soft Computing Artificial Intelligence and Applications*, **2013**, 2, 1-19	1.6	5
107	Fourth party logistics routing problem with fuzzy duration time. *International Journal of Production Economics*, **2013**, 145, 107-116	9.3	29
106	A Comparative Study on Particle Swarm Optimization in Dynamic Environments. *Studies in Computational Intelligence*, **2013**, 109-136	0.8	3
105	Genetic algorithms with adaptive immigrants for dynamic environments **2013**,		8
104	Evolutionary Dynamic Optimization: Methodologies. *Studies in Computational Intelligence*, **2013**, 39-64	0.8	9
103	Dynamic Optimization Using Analytic and Evolutionary Approaches: A Comparative Review. *Intelligent Systems Reference Library*, **2013**, 1-28	0.8	3
102	IPESA-II: Improved Pareto Envelope-Based Selection Algorithm II. *Lecture Notes in Computer Science* , **2013**, 143-155	0.9	5
101	Adapting the Pheromone Evaporation Rate in Dynamic Routing Problems. *Lecture Notes in Computer Science*, **2013**, 606-615	0.9	15
100	Evolutionary Dynamic Optimization: Test and Evaluation Environments. *Studies in Computational Intelligence*, **2013**, 3-37	0.8	12
99	Analyzing Evolutionary Algorithms for Dynamic Optimization Problems Based on the Dynamical Systems Approach. *Studies in Computational Intelligence*, **2013**, 241-267	0.8	4
98	Dynamics in the Multi-objective Subset Sum: Analysing the Behavior of Population Based Algorithms. *Studies in Computational Intelligence*, **2013**, 299-313	0.8	0
97	Ant Colony Optimization Algorithms with Immigrants Schemes for the Dynamic Travelling Salesman Problem. *Studies in Computational Intelligence*, **2013**, 317-341	0.8	6
96	Genetic Algorithms for Dynamic Routing Problems in Mobile Ad Hoc Networks. *Studies in Computational Intelligence*, **2013**, 343-375	0.8	5
95	Dynamic Vehicle Routing: A Memetic Ant Colony Optimization Approach. *Studies in Computational Intelligence*, **2013**, 283-301	0.8	3
94	Evolutionary Algorithms for the Multiple Unmanned Aerial Combat Vehicles Anti-ground Attack Problem in Dynamic Environments. *Studies in Computational Intelligence*, **2013**, 403-431	0.8	0
93	Memetic Algorithms for Dynamic Optimization Problems. *Studies in Computational Intelligence*, **2013**, 137-170	0.8	

92	Force-imitated particle swarm optimization using the near-neighbor effect for locating multiple optima. *Information Sciences*, **2012**, 182, 139-155	7.7	17
91	A memetic particle swarm optimization algorithm for multimodal optimization problems. *Information Sciences*, **2012**, 197, 38-52	7.7	71
90	A General Framework of Multipopulation Methods With Clustering in Undetectable Dynamic Environments. *IEEE Transactions on Evolutionary Computation*, **2012**, 16, 556-577	15.6	171
89	A self-learning particle swarm optimizer for global optimization problems. *IEEE Transactions on Systems, Man, and Cybernetics*, **2012**, 42, 627-46		235
88	Hyper-mutation Based Genetic Algorithms for Dynamic Multicast Routing Problem in Mobile Ad Hoc Networks **2012**,		2
87	Ant colony optimization with memory-based immigrants for the dynamic vehicle routing problem **2012**,		18
86	An Immigrants Scheme Based on Environmental Information for Ant Colony Optimization for the Dynamic Travelling Salesman Problem. *Lecture Notes in Computer Science*, **2012**, 1-12	0.9	6
85	Evolutionary dynamic optimization: A survey of the state of the art. *Swarm and Evolutionary Computation*, **2012**, 6, 1-24	9.8	430
84	Maintaining diversity by clustering in dynamic environments **2012**,		4
83	A memetic particle swarm optimisation algorithm for dynamic multi-modal optimisation problems. *International Journal of Systems Science*, **2012**, 43, 1268-1283	2.3	25
82	Ant Colony Optimization with Immigrants Schemes for the Dynamic Vehicle Routing Problem. *Lecture Notes in Computer Science*, **2012**, 519-528	0.9	9
81	Improved genetic algorithm for magnetic material two-stage multi-product production scheduling: A case study **2012**,		1
80	IMMIGRANTS-ENHANCED MULTI-POPULATION GENETIC ALGORITHMS FOR DYNAMIC SHORTEST PATH ROUTING PROBLEMS IN MOBILE AD HOC NETWORKS. *Applied Artificial Intelligence*, **2012**, 26, 673-695	2.3	11
79	A Hybrid Approach to Piecewise Modelling of Biochemical Systems. *Lecture Notes in Computer Science*, **2012**, 519-528	0.9	5
78	A Benchmark Generator for Dynamic Permutation-Encoded Problems. *Lecture Notes in Computer Science*, **2012**, 508-517	0.9	16
77	Genetic algorithms with elitism-based immigrants for dynamic load balanced clustering problem in mobile ad hoc networks **2011**,		9
76	Genetic Algorithms With Guided and Local Search Strategies for University Course Timetabling. *IEEE Transactions on Systems, Man and Cybernetics, Part C: Applications and Reviews*, **2011**, 41, 93-106		50
75	A hybrid genetic algorithm and tabu search approach for post enrolment course timetabling. *Journal of Scheduling*, **2011**, 14, 617-637	1.6	38

74	Environment identification-based memory scheme for estimation of distribution algorithms in dynamic environments. *Soft Computing*, **2011**, 15, 311-326	3.5	21
73	A memetic ant colony optimization algorithm for the dynamic travelling salesman problem. *Soft Computing*, **2011**, 15, 1405-1425	3.5	67
72	Use of the q-Gaussian mutation in evolutionary algorithms. *Soft Computing*, **2011**, 15, 1523-1549	3.5	8
71	Joint QoS multicast routing and channel assignment in multiradio multichannel wireless mesh networks using intelligent computational methods. *Applied Soft Computing Journal*, **2011**, 11, 1953-1964	7.5	40
70	A hybrid evolutionary multiobjective approach for the dynamic component selection problem **2011**,		4
69	Self-adaptation of mutation distribution in evolution strategies for dynamic optimization problems. *International Journal of Hybrid Intelligent Systems*, **2011**, 8, 155-168	0.9	
68	A Guided Search Non-dominated Sorting Genetic Algorithm for the Multi-Objective University Course Timetabling Problem. *Lecture Notes in Computer Science*, **2011**, 1-13	0.9	6
67	Memory-Based Immigrants for Ant Colony Optimization in Changing Environments. *Lecture Notes in Computer Science*, **2011**, 324-333	0.9	21
66	Adaptive learning particle swarm optimizer-II for global optimization **2010**,		3
65	A Directed Mutation Operator for Real Coded Genetic Algorithms. *Lecture Notes in Computer Science*, **2010**, 491-500	0.9	7
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4	On the Design of Diploid Genetic Algorithms for Problem Optimization in Dynamic Environments		3
3	Non-stationary problem optimization using the primal-dual genetic algorithm		33

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2	Constructing dynamic test environments for genetic algorithms based on problem difficulty	8
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