

Zhun Fan

List of Publications by Citations

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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.

155
papers

2,036
citations

25
h-index

40
g-index

190
ext. papers

2,803
ext. citations

3.9
avg, IF

5.49
L-index

#	Paper	IF	Citations
155	Constrained optimization based on hybrid evolutionary algorithm and adaptive constraint-handling technique. <i>Structural and Multidisciplinary Optimization</i> , 2009 , 37, 395-413	3.6	159
154	. <i>IEEE Transactions on Evolutionary Computation</i> , 2015 , 19, 508-523	15.6	147
153	Push and pull search for solving constrained multi-objective optimization problems. <i>Swarm and Evolutionary Computation</i> , 2019 , 44, 665-679	9.8	99
152	Decomposition-Based-Sorting and Angle-Based-Selection for Evolutionary Multiobjective and Many-Objective Optimization. <i>IEEE Transactions on Cybernetics</i> , 2017 , 47, 2824-2837	10.2	82
151	An improved epsilon constraint-handling method in MOEA/D for CMOPs with large infeasible regions. <i>Soft Computing</i> , 2019 , 23, 12491-12510	3.5	61
150	Toward a unified and automated design methodology for multi-domain dynamic systems using bond graphs and genetic programming. <i>Mechatronics</i> , 2003 , 13, 851-885	3	59
149	The hierarchical fair competition (HFC) framework for sustainable evolutionary algorithms. <i>Evolutionary Computation</i> , 2005 , 13, 241-77	4.3	59
148	A Decomposition-Based Many-Objective Evolutionary Algorithm With Two Types of Adjustments for Direction Vectors. <i>IEEE Transactions on Cybernetics</i> , 2018 , 48, 2335-2348	10.2	52
147	MOEA/D with angle-based constrained dominance principle for constrained multi-objective optimization problems. <i>Applied Soft Computing Journal</i> , 2019 , 74, 621-633	7.5	52
146	A Constrained Decomposition Approach With Grids for Evolutionary Multiobjective Optimization. <i>IEEE Transactions on Evolutionary Computation</i> , 2018 , 22, 564-577	15.6	48
145	Ensemble of Deep Convolutional Neural Networks for Automatic Pavement Crack Detection and Measurement. <i>Coatings</i> , 2020 , 10, 152	2.9	43
144	An Event Recognition Method for EOTDR Sensing System Based on Deep Learning. <i>Sensors</i> , 2019 , 19,	3.8	43
143	Surrogate-Assisted Retinal OCT Image Classification Based on Convolutional Neural Networks. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2019 , 23, 253-263	7.2	43
142	Automatic Tobacco Plant Detection in UAV Images via Deep Neural Networks. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2018 , 11, 876-887	4.7	42
141	Service robots for hospitals: A case study of transportation tasks in a hospital 2009 ,		40
140	A novel Bayesian learning method for information aggregation in modular neural networks. <i>Expert Systems With Applications</i> , 2010 , 37, 1071-1074	7.8	39
139	A Hierarchical Image Matting Model for Blood Vessel Segmentation in Fundus Images. <i>IEEE Transactions on Image Processing</i> , 2018 ,	8.7	39

138	PQ-RRT*: An improved path planning algorithm for mobile robots. <i>Expert Systems With Applications</i> , 2020 , 152, 113425	7.8	37
137	A diversity indicator based on reference vectors for many-objective optimization. <i>Information Sciences</i> , 2018 , 430-431, 467-486	7.7	36
136	Automatic Crack Detection on Road Pavements Using Encoder-Decoder Architecture. <i>Materials</i> , 2020 , 13,	3.5	35
135	An improved epsilon constraint handling method embedded in MOEA/D for constrained multi-objective optimization problems 2016 ,		28
134	Optic Disk Detection in Fundus Image Based on Structured Learning. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2018 , 22, 224-234	7.2	27
133	Difficulty Adjustable and Scalable Constrained Multiobjective Test Problem Toolkit. <i>Evolutionary Computation</i> , 2020 , 28, 339-378	4.3	27
132	Knowledge interaction with genetic programming in mechatronic systems design using bond graphs. <i>IEEE Transactions on Systems, Man and Cybernetics, Part C: Applications and Reviews</i> , 2005 , 35, 172-182		26
131	Fixed-Time Attitude Tracking Control for Rigid Spacecraft Without Angular Velocity Measurements. <i>IEEE Transactions on Industrial Electronics</i> , 2020 , 67, 6795-6805	8.9	26
130	A novel memetic algorithm based on invasive weed optimization and differential evolution for constrained optimization. <i>Soft Computing</i> , 2013 , 17, 1893-1910	3.5	24
129	Improved Differential Evolution Based on Stochastic Ranking for Robust Layout Synthesis of MEMS Components. <i>IEEE Transactions on Industrial Electronics</i> , 2009 , 56, 937-948	8.9	24
128	LSHADE44 with an Improved ϵ Constraint-Handling Method for Solving Constrained Single-Objective Optimization Problems 2018 ,		22
127	A comparative study of constrained multi-objective evolutionary algorithms on constrained multi-objective optimization problems 2017 ,		21
126	A novel evolutionary engineering design approach for mixed-domain systems. <i>Engineering Optimization</i> , 2004 , 36, 127-147	2	21
125	Push and pull search embedded in an M2M framework for solving constrained multi-objective optimization problems. <i>Swarm and Evolutionary Computation</i> , 2020 , 54, 100651	9.8	20
124	Epsilon constrained method for constrained multiobjective optimization problems 2014 ,		19
123	Structured synthesis of MEMS using evolutionary approaches. <i>Applied Soft Computing Journal</i> , 2008 , 8, 579-589	7.5	19
122	Distributed fixed-time attitude coordination control for multiple rigid spacecraft. <i>International Journal of Robust and Nonlinear Control</i> , 2020 , 30, 266-281	3.6	19
121	Boosting Active Contours for Weld Pool Visual Tracking in Automatic Arc Welding. <i>IEEE Transactions on Automation Science and Engineering</i> , 2017 , 14, 1096-1108	4.9	17

120	. <i>IEEE Access</i> , 2018 , 6, 77414-77428	3.5	17
119	A decomposition-based coevolutionary multiobjective local search for combinatorial multiobjective optimization. <i>Swarm and Evolutionary Computation</i> , 2019 , 49, 178-193	9.8	16
118	An improved memetic algorithm using ring neighborhood topology for constrained optimization. <i>Soft Computing</i> , 2014 , 18, 2023-2041	3.5	16
117	System-Level Synthesis of MEMS via Genetic Programming and Bond Graphs. <i>Lecture Notes in Computer Science</i> , 2003 , 2058-2071	0.9	15
116	Epidemics on small worlds of tree-based wireless sensor networks. <i>Journal of Systems Science and Complexity</i> , 2014 , 27, 1095-1120	1	14
115	Zero-Voltage and Zero-Current Switching Dual-Transformer-Based Full-Bridge Converter With Current Doubler Rectifier. <i>IEEE Transactions on Power Electronics</i> , 2020 , 35, 12949-12958	7.2	13
114	Angle-based constrained dominance principle in MOEA/D for constrained multi-objective optimization problems 2016 ,		13
113	Study on the evolutionary optimisation of the topology of network control systems. <i>Enterprise Information Systems</i> , 2010 , 4, 247-264	3.5	12
112	Deriving external forces via convolutional neural networks for biomedical image segmentation. <i>Biomedical Optics Express</i> , 2019 , 10, 3800-3814	3.5	12
111	. <i>IEEE Transactions on Power Electronics</i> , 2020 , 35, 4579-4587	7.2	11
110	A cyber-physical-social system with parallel learning for distributed energy management of a microgrid. <i>Energy</i> , 2018 , 165, 205-221	7.9	11
109	Modeling the Tracking Area Planning Problem Using an Evolutionary Multi-Objective Algorithm. <i>IEEE Computational Intelligence Magazine</i> , 2017 , 12, 29-41	5.6	9
108	A low energy intelligent clustering protocol for wireless sensor networks 2010 ,		9
107	Immunizations on small worlds of tree-based wireless sensor networks. <i>Chinese Physics B</i> , 2012 , 21, 050205	205	9
106	Cooperative bodyBrain coevolutionary synthesis of mechatronic systems. <i>Artificial Intelligence for Engineering Design, Analysis and Manufacturing: AIEDAM</i> , 2008 , 22, 219-234	1.3	9
105	Detecting glaucoma based on spectral domain optical coherence tomography imaging of peripapillary retinal nerve fiber layer: a comparison study between hand-crafted features and deep learning model. <i>Graefes Archive for Clinical and Experimental Ophthalmology</i> , 2020 , 258, 577-585	3.8	9
104	Probability distribution pattern analysis and its application in the Acute Hypotensive Episodes prediction. <i>Measurement: Journal of the International Measurement Confederation</i> , 2017 , 104, 180-191	4.6	8
103	Maximization of extraction of Cadmium and Zinc during recycling of spent battery mix: An application of combined genetic programming and simulated annealing approach. <i>Journal of Cleaner Production</i> , 2019 , 218, 130-140	10.3	8

102	Evolutionary design optimization of MEMS: A brief review 2010 ,		7
101	Exploring Open-Ended Design Space of Mechatronic Systems. <i>International Journal of Advanced Robotic Systems</i> , 2004 , 1, 24	1.4	7
100	Solving the Optimal Coverage Problem in Wireless Sensor Networks Using Evolutionary Computation Algorithms. <i>Lecture Notes in Computer Science</i> , 2010 , 166-176	0.9	7
99	Automated glaucoma screening method based on image segmentation and feature extraction. <i>Medical and Biological Engineering and Computing</i> , 2020 , 58, 2567-2586	3.1	7
98	A two-phase many-objective evolutionary algorithm with penalty based adjustment for reference lines 2016 ,		7
97	An adaptive memetic framework for multi-objective combinatorial optimization problems: studies on software next release and travelling salesman problems. <i>Soft Computing</i> , 2017 , 21, 2215-2236	3.5	6
96	Multi-Factorial Evolutionary Algorithm Based on M2M Decomposition. <i>Lecture Notes in Computer Science</i> , 2017 , 134-144	0.9	6
95	SRDE 2009 ,		6
94	Multi-event classification for BOTDR distributed optical fiber sensing system using deep learning and support vector machine. <i>Optik</i> , 2020 , 221, 165373	2.5	6
93	A Twofold Lookup Table Architecture for Efficient Approximation of Activation Functions. <i>IEEE Transactions on Very Large Scale Integration (VLSI) Systems</i> , 2020 , 28, 2540-2550	2.6	6
92	A discretization approach to sampled-data stabilization of networked systems with successive packet losses. <i>International Journal of Robust and Nonlinear Control</i> , 2021 , 31, 4589-4601	3.6	6
91	Automated blood vessel segmentation based on de-noising auto-encoder and neural network 2016 ,		6
90	Evolutionary design optimization of MEMS: a review of its history and state-of-the-art. <i>Cluster Computing</i> , 2019 , 22, 9105-9111	2.1	6
89	HEMO: A Sustainable Multi-objective Evolutionary Optimization Framework. <i>Lecture Notes in Computer Science</i> , 2003 , 1029-1040	0.9	6
88	Dynamic Phase Demodulation Algorithm for Phase-Sensitive OTDR With Direct Detection. <i>IEEE Access</i> , 2020 , 8, 77511-77517	3.5	5
87	Automated blood vessel segmentation in fundus image based on integral channel features and random forests 2016 ,		5
86	A real-time passive vision system for robotic arc welding 2015 ,		5
85	Differential evolution to enhance localization of mobile robots 2011 ,		5

84	Dynamics in small worlds of tree topologies of wireless sensor networks. <i>Journal of Systems Engineering and Electronics</i> , 2012 , 23, 325-334	1.3	5
83	Design of a robotic automation system for transportation of goods in hospitals 2007 ,		5
82	Invariant moments based convolutional neural networks for image analysis. <i>International Journal of Computational Intelligence Systems</i> , 2017 , 10, 936	3.4	5
81	Ensemble learning for optimal active power control of distributed energy resources and thermostatically controlled loads in an islanded microgrid. <i>International Journal of Hydrogen Energy</i> , 2018 , 43, 22474-22486	6.7	5
80	Detection of Referable Horizontal Strabismus in Children's Primary Gaze Photographs Using Deep Learning. <i>Translational Vision Science and Technology</i> , 2021 , 10, 33	3.3	5
79	Optimal trajectory searching based differential evolution. <i>International Journal of Wireless and Mobile Computing</i> , 2015 , 8, 384	0.4	4
78	Evolutionary Design of Both Topologies and Parameters of a Hybrid Dynamical System. <i>IEEE Transactions on Evolutionary Computation</i> , 2012 , 16, 391-405	15.6	4
77	Multi-criteria layout synthesis of MEMS devices using memetic computing 2011 ,		4
76	Weld pool visual sensing without external illumination 2011 ,		4
75	SRaDE 2009 ,		4
74	Use of Parallel ResNet for High-Performance Pavement Crack Detection and Measurement. <i>Sustainability</i> , 2022 , 14, 1825	3.6	4
73	MP-EDA: A Robust Estimation of Distribution Algorithm with Multiple Probabilistic Models for Global Continuous Optimization. <i>Lecture Notes in Computer Science</i> , 2010 , 85-94	0.9	4
72	A Bi-Objective Constrained Robust Gate Assignment Problem: Formulation, Instances and Algorithm. <i>IEEE Transactions on Cybernetics</i> , 2021 , 51, 4488-4500	10.2	4
71	A coupled and interactive influence of operational parameters for optimizing power output of cleaner energy production systems under uncertain conditions. <i>International Journal of Energy Research</i> , 2019 , 43, 1294-1302	4.5	4
70	Sampling with level set for pigmented skin lesion segmentation. <i>Signal, Image and Video Processing</i> , 2019 , 13, 813-821	1.6	4
69	Dense and Switched Modular Primitives for Bond Graph Model Design. <i>Lecture Notes in Computer Science</i> , 2003 , 1764-1775	0.9	4
68	Vegetation segmentation based on variational level set using multi-channel local wavelet texture and color. <i>Signal, Image and Video Processing</i> , 2018 , 12, 951-958	1.6	3
67	Analysis and multi-objective optimization of a kind of teaching manipulator. <i>Swarm and Evolutionary Computation</i> , 2019 , 50, 100554	9.8	3

66	Difficulty Controllable and Scalable Constrained Multi-objective Test Problems 2015 ,		3
65	Evolved finite state controller for hybrid system in reduced search space 2009 ,		3
64	An Approach for Prediction of Acute Hypotensive Episodes via the Hilbert-Huang Transform and Multiple Genetic Programming Classifier. <i>International Journal of Distributed Sensor Networks</i> , 2015 , 11, 354807	1.7	3
63	Hybridizing Infeasibility Driven and Constrained-Domination Principle with MOEA/D for Constrained Multiobjective Evolutionary Optimization. <i>Lecture Notes in Computer Science</i> , 2014 , 249-261 ^{0.9}		3
62	Automated blood vessel segmentation of fundus images using region features of vessels 2016 ,		3
61	A Learning Guided Parameter Setting for Constrained Multi-Objective Optimization 2019 ,		3
60	Genetic U-Net: Automatically Designed Deep Networks for Retinal Vessel Segmentation Using a Genetic Algorithm. <i>IEEE Transactions on Medical Imaging</i> , 2021 , PP,	11.7	3
59	Multi-objective evolutionary algorithms embedded with machine learning [A survey] 2016 ,		2
58	A Combined Texture-Shape Global 3D Feature Descriptor for Object Recognition and Grasping 2017 ,		2
57	3D Mapping of Multi-floor Buildings Based on Sensor Fusion 2017 ,		2
56	The Algorithm for Algorithms: An Evolutionary Algorithm Based on Automatic Designing of Genetic Operators. <i>Mathematical Problems in Engineering</i> , 2015 , 2015, 1-15	1.1	2
55	2015 ,		2
54	Evolved finite state controller for hybrid system 2009 ,		2
53	Practical indoor mobile robot navigation using hybrid maps 2011 ,		2
52	GPBG: A Framework for Evolutionary Design of Multi-domain Engineering Systems Using Genetic Programming and Bond Graphs. <i>Natural Computing Series</i> , 2008 , 319-345	2.5	2
51	Review of Automated Design and Optimization of MEMS 2007 ,		2
50	An Evolutionary Approach For Robust Layout Synthesis of MEMS. <i>Studies in Computational Intelligence</i> , 2007 , 519-542	0.8	2
49	A multi-phase adaptively guided multiobjective evolutionary algorithm based on decomposition for travelling salesman problem 2016 ,		2

48	A Manipulator Design Optimization Based on Constrained Multi-objective Evolutionary Algorithms 2016,			2
47	Collaborative Robot Transport System Based on Edge Computing 2019,			2
46	. <i>IEEE Access</i> , 2019 , 7, 85875-85886		3.5	1
45	Experimental Combined Grouping Analysis Approach for Robust Battery pack design for Electric Vehicles with Higher Performance. <i>IOP Conference Series: Earth and Environmental Science</i> , 2019 , 268, 012020		0.3	1
44	Discrimination method using higher-order harmonic frequencies for two close perturbations in phase-sensitive optical time domain reflectometry. <i>Optik</i> , 2019 , 193, 163045		2.5	1
43	Towards stabilizing parametric active contours 2014,			1
42	Modified binary differential evolution for solving wind farm layout optimization problems 2013,			1
41	Evolutionary Algorithm Based on Automatically Designing of Genetic Operators 2013,			1
40	Application of an evolutionary algorithm in the optimal design of micro-sensor. <i>Bio-Medical Materials and Engineering</i> , 2015 , 26 Suppl 1, S1711-9		1	1
39	Evolutionary design of discrete controllers for hybrid mechatronic systems. <i>International Journal of Systems Science</i> , 2015 , 46, 303-316		2.3	1
38	An Improved Ideal Point Setting in Multiobjective Evolutionary Algorithm Based on Decomposition 2015,			1
37	Prediction of acute hypotensive episodes using random forest based on genetic programming 2015 ,			1
36	An external archive guided multiobjective evolutionary approach based on decomposition for continuous optimization 2014,			1
35	Comparing an evolved finite state controller for hybrid system to a lookahead design 2010,			1
34	Empirical evaluation of a practical indoor mobile robot navigation method using hybrid maps 2010,			1
33	Application of Artificial Muscles as Actuators in Engineering Design 2008 , 875-884			1
32	A Problem Solving Environment for Combinatorial Optimization Based on Parallel Meta-heuristics 2007,			1
31	Characterization of Living Drosophila Embryos using Micro Robotic Manipulation System 2006,			1

30	Sequential Bayesian Learning for Modular Neural Networks. <i>Lecture Notes in Computer Science</i> , 2005 , 652-659	0.9	1
29	A Recognition Method for Multi-Radial-Distance Event of EDTDR System Based on CNN. <i>IEEE Access</i> , 2021 , 9, 143473-143480	3.5	1
28	Constraints and Shortfalls in Engineering Design Practice 2008 , 13-20		1
27	An M/G/1 Queue with Second Optional Service and General Randomized Vacation Policy. <i>Advances in Intelligent Systems and Computing</i> , 2018 , 297-307	0.4	1
26	Formation control of multiple mecanum-wheeled mobile robots with physical constraints and uncertainties. <i>Applied Intelligence</i> ,1	4.9	1
25	Torch: Strategy evolution in swarm robots using heterogeneous/homogeneous coevolution method. <i>Journal of Industrial Information Integration</i> , 2021 , 100239	7	1
24	A Grid-Based Decomposition for Evolutionary Multiobjective Optimization. <i>Communications in Computer and Information Science</i> , 2016 , 316-321	0.3	1
23	Tobacco Plant Recognizing and Counting Based on SVM 2016 ,		1
22	Synchronized 2D SLAM and 3D Mapping Based on Three Wheels Omni-directional Mobile Robot 2019 ,		1
21	Evolution of Controllers under a Generalized Structure Encoding/Decoding Scheme with Application to Magnetic Levitation System. <i>IEEE Transactions on Industrial Electronics</i> , 2021 , 1-1	8.9	1
20	CI-Net: a joint depth estimation and semantic segmentation network using contextual information. <i>Applied Intelligence</i> ,1	4.9	1
19	A Novel Multi-Population Artificial Bee Colony Algorithm for Energy-Efficient Hybrid Flow Shop Scheduling Problem. <i>Symmetry</i> , 2021 , 13, 2421	2.7	1
18	Cooperation-Based Gene Regulatory Network for Target Entrapment. <i>Lecture Notes in Computer Science</i> , 2019 , 60-69	0.9	0
17	TH-GRN Model Based Collective Tracking in Confined Environment. <i>Lecture Notes in Computer Science</i> , 2019 , 33-43	0.9	0
16	Adaptive coverage control for multi-USV system in complex environment with unknown obstacles. <i>International Journal of Distributed Sensor Networks</i> , 2021 , 17, 155014772110215	1.7	0
15	Adaptive Recombination Operator Selection in Push and Pull Search for Solving Constrained Single-Objective Optimization Problems. <i>Communications in Computer and Information Science</i> , 2018 , 355-367	0.3	0
14	Bioinspired Environment Exploration Algorithm in Swarm Based on Lly Flight and Improved Artificial Potential Field. <i>Drones</i> , 2022 , 6, 122	5.4	0
13	Evolutionary programming with a simulated-conformist mutation strategy. <i>Soft Computing</i> , 2018 , 22, 659-676	3.5	

12	Greedy Based Pareto Local Search for Bi-objective Robust Airport Gate Assignment Problem. <i>Lecture Notes in Computer Science</i> , 2017 , 694-705	0.9
11	A Sorting Based Selection for Evolutionary Multiobjective Optimization. <i>Communications in Computer and Information Science</i> , 2015 , 538-549	0.3
10	Robust Layout Synthesis of a MEM Crab-Leg Resonator Using a Constrained Genetic Algorithm 2007 , 329	
9	Automating the Hierarchical Synthesis of MEMS Using Evolutionary Approaches 2005 , 129-149	
8	Noisy Optimization by Evolution Strategies With Online Population Size Learning. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , 2021 , 1-13	7.3
7	Explaining Convolutional Neural Networks for Area Estimation of Choroidal Neovascularization via Genetic Programming. <i>Lecture Notes in Computer Science</i> , 2018 , 210-218	0.9
6	Simulated Annealing with a Time-Slot Heuristic for Ready-Mix Concrete Delivery. <i>Lecture Notes in Computer Science</i> , 2017 , 39-50	0.9
5	Optimization of the Modified T Vacation Policy for a Discrete-Time ($\text{Geom}^{\{X\}}/\text{Geom}^{\{G\}}/1$) Queueing System with Startup. <i>Advances in Intelligent Systems and Computing</i> , 2018 , 414-424	0.4
4	An Improved Epsilon Method with M2M for Solving Imbalanced CMOPs with Simultaneous Convergence-Hard and Diversity-Hard Constraints. <i>Lecture Notes in Computer Science</i> , 2021 , 248-256	0.9
3	A Dual-Population-Based Local Search for Solving Multiobjective Traveling Salesman Problem. <i>Communications in Computer and Information Science</i> , 2018 , 380-388	0.3
2	Performance optimization of hard rock tunnel boring machine using multi-objective evolutionary algorithm. <i>Computers and Industrial Engineering</i> , 2022 , 169, 108251	6.4
1	Direct Estimation of Choroidal Thickness in Optical Coherence Tomography Images with Convolutional Neural Networks. <i>Journal of Clinical Medicine</i> , 2022 , 11, 3203	5.1