

Zhun Fan

List of Publications by Year in Descending Order

Source: <https://exaly.com/author-pdf/4422534/zhun-fan-publications-by-year.pdf>

Version: 2024-04-24

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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	Use of Parallel ResNet for High-Performance Pavement Crack Detection and Measurement. <i>Sustainability</i> , 2022 , 14, 1825	3.6	4
154	Bioinspired Environment Exploration Algorithm in Swarm Based on Lly Flight and Improved Artificial Potential Field. <i>Drones</i> , 2022 , 6, 122	5.4	0
153	Performance optimization of hard rock tunnel boring machine using multi-objective evolutionary algorithm. <i>Computers and Industrial Engineering</i> , 2022 , 169, 108251	6.4	
152	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	
151	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	
150	A Recognition Method for Multi-Radial-Distance Event of EDTR System Based on CNN. <i>IEEE Access</i> , 2021 , 9, 143473-143480	3.5	1
149	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
148	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
147	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
146	Torch: Strategy evolution in swarm robots using heterogeneous/homogeneous coevolution method. <i>Journal of Industrial Information Integration</i> , 2021 , 100239	7	1
145	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
144	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	
143	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
142	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
141	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
140	Dynamic Phase Demodulation Algorithm for Phase-Sensitive OTDR With Direct Detection. <i>IEEE Access</i> , 2020 , 8, 77511-77517	3.5	5
139	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

138	Automatic Crack Detection on Road Pavements Using Encoder-Decoder Architecture. <i>Materials</i> , 2020 , 13,	3.5	35
137	Ensemble of Deep Convolutional Neural Networks for Automatic Pavement Crack Detection and Measurement. <i>Coatings</i> , 2020 , 10, 152	2.9	43
136	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
135	PQ-RRT*: An improved path planning algorithm for mobile robots. <i>Expert Systems With Applications</i> , 2020 , 152, 113425	7.8	37
134	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
133	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
132	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
131	Multi-event classification for EOTDR distributed optical fiber sensing system using deep learning and support vector machine. <i>Optik</i> , 2020 , 221, 165373	2.5	6
130	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
129	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
128	Difficulty Adjustable and Scalable Constrained Multiobjective Test Problem Toolkit. <i>Evolutionary Computation</i> , 2020 , 28, 339-378	4.3	27
127	. <i>IEEE Transactions on Power Electronics</i> , 2020 , 35, 4579-4587	7.2	11
126	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
125	A decomposition-based coevolutionary multiobjective local search for combinatorial multiobjective optimization. <i>Swarm and Evolutionary Computation</i> , 2019 , 49, 178-193	9.8	16
124	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
123	An Event Recognition Method for EOTDR Sensing System Based on Deep Learning. <i>Sensors</i> , 2019 , 19,	3.8	43
122	. <i>IEEE Access</i> , 2019 , 7, 85875-85886	3.5	1
121	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

120	Analysis and multi-objective optimization of a kind of teaching manipulator. <i>Swarm and Evolutionary Computation</i> , 2019 , 50, 100554	9.8	3
119	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
118	Deriving external forces via convolutional neural networks for biomedical image segmentation. <i>Biomedical Optics Express</i> , 2019 , 10, 3800-3814	3.5	12
117	Cooperation-Based Gene Regulatory Network for Target Entrapment. <i>Lecture Notes in Computer Science</i> , 2019 , 60-69	0.9	0
116	TH-GRN Model Based Collective Tracking in Confined Environment. <i>Lecture Notes in Computer Science</i> , 2019 , 33-43	0.9	0
115	Synchronized 2D SLAM and 3D Mapping Based on Three Wheels Omni-directional Mobile Robot 2019 ,		1
114	Collaborative Robot Transport System Based on Edge Computing 2019 ,		2
113	A Learning Guided Parameter Setting for Constrained Multi-Objective Optimization 2019 ,		3
112	Push and pull search for solving constrained multi-objective optimization problems. <i>Swarm and Evolutionary Computation</i> , 2019 , 44, 665-679	9.8	99
111	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
110	Sampling with level set for pigmented skin lesion segmentation. <i>Signal, Image and Video Processing</i> , 2019 , 13, 813-821	1.6	4
109	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
108	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
107	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
106	A Constrained Decomposition Approach With Grids for Evolutionary Multiobjective Optimization. <i>IEEE Transactions on Evolutionary Computation</i> , 2018 , 22, 564-577	15.6	48
105	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
104	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
103	Evolutionary programming with a simulated-conformist mutation strategy. <i>Soft Computing</i> , 2018 , 22, 659-676	3.5	

102	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
101	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
100	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	
99	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
98	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	
97	A Hierarchical Image Matting Model for Blood Vessel Segmentation in Fundus Images. <i>IEEE Transactions on Image Processing</i> , 2018 ,	8.7	39
96	A diversity indicator based on reference vectors for many-objective optimization. <i>Information Sciences</i> , 2018 , 430-431, 467-486	7.7	36
95	LSHADE44 with an Improved ϵ Constraint-Handling Method for Solving Constrained Single-Objective Optimization Problems 2018 ,		22
94	. <i>IEEE Access</i> , 2018 , 6, 77414-77428	3.5	17
93	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	
92	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
91	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
90	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
89	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
88	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
87	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
86	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
85	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	

84	Multi-Factorial Evolutionary Algorithm Based on M2M Decomposition. <i>Lecture Notes in Computer Science</i> , 2017 , 134-144	0.9	6
83	A comparative study of constrained multi-objective evolutionary algorithms on constrained multi-objective optimization problems 2017 ,		21
82	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
81	A Combined Texture-Shape Global 3D Feature Descriptor for Object Recognition and Grasping 2017 ,		2
80	3D Mapping of Multi-floor Buildings Based on Sensor Fusion 2017 ,		2
79	Invariant moments based convolutional neural networks for image analysis. <i>International Journal of Computational Intelligence Systems</i> , 2017 , 10, 936	3.4	5
78	Simulated Annealing with a Time-Slot Heuristic for Ready-Mix Concrete Delivery. <i>Lecture Notes in Computer Science</i> , 2017 , 39-50	0.9	
77	Multi-objective evolutionary algorithms embedded with machine learning [A survey] 2016 ,		2
76	Automated blood vessel segmentation in fundus image based on integral channel features and random forests 2016 ,		5
75	A two-phase many-objective evolutionary algorithm with penalty based adjustment for reference lines 2016 ,		7
74	An improved epsilon constraint handling method embedded in MOEA/D for constrained multi-objective optimization problems 2016 ,		28
73	Automated blood vessel segmentation of fundus images using region features of vessels 2016 ,		3
72	Automated blood vessel segmentation based on de-noising auto-encoder and neural network 2016 ,		6
71	Angle-based constrained dominance principle in MOEA/D for constrained multi-objective optimization problems 2016 ,		13
70	A multi-phase adaptively guided multiobjective evolutionary algorithm based on decomposition for travelling salesman problem 2016 ,		2
69	A Grid-Based Decomposition for Evolutionary Multiobjective Optimization. <i>Communications in Computer and Information Science</i> , 2016 , 316-321	0.3	1
68	Tobacco Plant Recognizing and Counting Based on SVM 2016 ,		1
67	A Manipulator Design Optimization Based on Constrained Multi-objective Evolutionary Algorithms 2016 ,		2

66	Difficulty Controllable and Scalable Constrained Multi-objective Test Problems 2015 ,		3
65	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
64	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
63	Evolutionary design of discrete controllers for hybrid mechatronic systems. <i>International Journal of Systems Science</i> , 2015 , 46, 303-316	2.3	1
62	An Improved Ideal Point Setting in Multiobjective Evolutionary Algorithm Based on Decomposition 2015 ,		1
61	Optimal trajectory searching based differential evolution. <i>International Journal of Wireless and Mobile Computing</i> , 2015 , 8, 384	0.4	4
60	2015 ,		2
59	A real-time passive vision system for robotic arc welding 2015 ,		5
58	A Sorting Based Selection for Evolutionary Multiobjective Optimization. <i>Communications in Computer and Information Science</i> , 2015 , 538-549	0.3	
57	Prediction of acute hypotensive episodes using random forest based on genetic programming 2015 ,		1
56	. <i>IEEE Transactions on Evolutionary Computation</i> , 2015 , 19, 508-523	15.6	147
55	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
54	Towards stabilizing parametric active contours 2014 ,		1
53	Epsilon constrained method for constrained multiobjective optimization problems 2014 ,		19
52	Epidemics on small worlds of tree-based wireless sensor networks. <i>Journal of Systems Science and Complexity</i> , 2014 , 27, 1095-1120	1	14
51	An external archive guided multiobjective evolutionary approach based on decomposition for continuous optimization 2014 ,		1
50	An improved memetic algorithm using ring neighborhood topology for constrained optimization. <i>Soft Computing</i> , 2014 , 18, 2023-2041	3.5	16
49	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

48	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
47	Modified binary differential evolution for solving wind farm layout optimization problems 2013 ,		1
46	Evolutionary Algorithm Based on Automatically Designing of Genetic Operators 2013 ,		1
45	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
44	Immunizations on small worlds of tree-based wireless sensor networks. <i>Chinese Physics B</i> , 2012 , 21, 050205		9
43	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
42	Multi-criteria layout synthesis of MEMS devices using memetic computing 2011 ,		4
41	Weld pool visual sensing without external illumination 2011 ,		4
40	Differential evolution to enhance localization of mobile robots 2011 ,		5
39	Practical indoor mobile robot navigation using hybrid maps 2011 ,		2
38	Comparing an evolved finite state controller for hybrid system to a lookahead design 2010 ,		1
37	A low energy intelligent clustering protocol for wireless sensor networks 2010 ,		9
36	Evolutionary design optimization of MEMS: A brief review 2010 ,		7
35	Empirical evaluation of a practical indoor mobile robot navigation method using hybrid maps 2010 ,		1
34	Study on the evolutionary optimisation of the topology of network control systems. <i>Enterprise Information Systems</i> , 2010 , 4, 247-264	3.5	12
33	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
32	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
31	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

30	SRDE 2009 ,		6
29	Evolved finite state controller for hybrid system 2009 ,		2
28	SRaDE 2009 ,		4
27	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
26	Service robots for hospitals: A case study of transportation tasks in a hospital 2009 ,		40
25	Evolved finite state controller for hybrid system in reduced search space 2009 ,		3
24	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
23	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
22	Application of Artificial Muscles as Actuators in Engineering Design 2008 , 875-884		1
21	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
20	Structured synthesis of MEMS using evolutionary approaches. <i>Applied Soft Computing Journal</i> , 2008 , 8, 579-589	7.5	19
19	Constraints and Shortfalls in Engineering Design Practice 2008 , 13-20		1
18	A Problem Solving Environment for Combinatorial Optimization Based on Parallel Meta-heuristics 2007 ,		1
17	Review of Automated Design and Optimization of MEMS 2007 ,		2
16	Robust Layout Synthesis of a MEM Crab-Leg Resonator Using a Constrained Genetic Algorithm 2007 , 329		
15	Design of a robotic automation system for transportation of goods in hospitals 2007 ,		5
14	An Evolutionary Approach For Robust Layout Synthesis of MEMS. <i>Studies in Computational Intelligence</i> , 2007 , 519-542	0.8	2
13	Characterization of Living Drosophila Embryos using Micro Robotic Manipulation System 2006 ,		1

12	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
11	Sequential Bayesian Learning for Modular Neural Networks. <i>Lecture Notes in Computer Science</i> , 2005 , 652-659	0.9	1
10	The hierarchical fair competition (HFC) framework for sustainable evolutionary algorithms. <i>Evolutionary Computation</i> , 2005 , 13, 241-77	4.3	59
9	Automating the Hierarchical Synthesis of MEMS Using Evolutionary Approaches 2005 , 129-149		
8	Exploring Open-Ended Design Space of Mechatronic Systems. <i>International Journal of Advanced Robotic Systems</i> , 2004 , 1, 24	1.4	7
7	A novel evolutionary engineering design approach for mixed-domain systems. <i>Engineering Optimization</i> , 2004 , 36, 127-147	2	21
6	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
5	System-Level Synthesis of MEMS via Genetic Programming and Bond Graphs. <i>Lecture Notes in Computer Science</i> , 2003 , 2058-2071	0.9	15
4	HEMO: A Sustainable Multi-objective Evolutionary Optimization Framework. <i>Lecture Notes in Computer Science</i> , 2003 , 1029-1040	0.9	6
3	Dense and Switched Modular Primitives for Bond Graph Model Design. <i>Lecture Notes in Computer Science</i> , 2003 , 1764-1775	0.9	4
2	Formation control of multiple mecanum-wheeled mobile robots with physical constraints and uncertainties. <i>Applied Intelligence</i> , 1	4.9	1
1	CI-Net: a joint depth estimation and semantic segmentation network using contextual information. <i>Applied Intelligence</i> , 1	4.9	1