Cheng He

List of Publications by Year
in descending order

45 papers	1,597 citations	361045 20 h-index	315357 38 g-index
46 all docs	46 docs citations	46 times ranked	729 citing authors

#	Article	IF	Citations
1	RelativeNAS: Relative Neural Architecture Search via Slow-Fast Learning. IEEE Transactions on Neural Networks and Learning Systems, 2023, 34, 475-489.	7.2	12
2	Accelerating multi-objective neural architecture search by random-weight evaluation. Complex & Intelligent Systems, 2023, 9, 1183-1192.	4.0	4
3	Adaptive Offspring Generation for Evolutionary Large-Scale Multiobjective Optimization. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2022, 52, 786-798.	5.9	99
4	Adaptive Control of Subpopulations in Evolutionary Dynamic Optimization. IEEE Transactions on Cybernetics, 2022, 52, 6476-6489.	6.2	3
5	An inverse design method for supercritical airfoil based on conditional generative models. Chinese Journal of Aeronautics, 2022, 35, 62-74.	2.8	23
6	Adaptive dropout for high-dimensional expensive multiobjective optimization. Complex & Intelligent Systems, 2022, 8, 271-285.	4.0	26
7	A Gradient-Guided Evolutionary Approach to Training Deep Neural Networks. IEEE Transactions on Neural Networks and Learning Systems, 2022, 33, 4861-4875.	7.2	19
8	Evolutionary Large-Scale Multi-Objective Optimization: A Survey. ACM Computing Surveys, 2022, 54, 1-34.	16.1	67
9	Adaptive multiobjective evolutionary algorithm for large-scale transformer ratio error estimation. Memetic Computing, 2022, 14, 237-251.	2.7	1
10	SoloGAN: Multi-domain Multimodal Unpaired Image-to-Image Translation via a Single Generative Adversarial Network. IEEE Transactions on Artificial Intelligence, 2022, 3, 722-737.	3.4	6
11	A Multistage Evolutionary Algorithm for Better Diversity Preservation in Multiobjective Optimization. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2021, 51, 5880-5894.	5.9	54
12	Evolutionary Multiobjective Optimization Driven by Generative Adversarial Networks (GANs). IEEE Transactions on Cybernetics, 2021, 51, 3129-3142.	6.2	90
13	Adaptive simulated binary crossover for rotated multi-objective optimization. Swarm and Evolutionary Computation, 2021, 60, 100759.	4.5	42
14	Manifold Learning-Inspired Mating Restriction for Evolutionary Multiobjective Optimization With Complicated Pareto Sets. IEEE Transactions on Cybernetics, 2021, 51, 3325-3337.	6.2	25
15	A Kriging-Assisted Two-Archive Evolutionary Algorithm for Expensive Many-Objective Optimization. IEEE Transactions on Evolutionary Computation, 2021, 25, 1013-1027.	7.5	95
16	Dimension Dropout for Evolutionary High-Dimensional Expensive Multiobjective Optimization. Lecture Notes in Computer Science, 2021, , 567-579.	1.0	1
17	Manifold Learning Inspired Mating Restriction for Evolutionary Constrained Multiobjective Optimization. Lecture Notes in Computer Science, 2021, , 296-307.	1.0	1
18	Paired Offspring Generation for Constrained Large-Scale Multiobjective Optimization. IEEE Transactions on Evolutionary Computation, 2021, 25, 448-462.	7.5	34

#	ARTICLE	IF	CITATIONS
19	Large-scale Multiobjective Optimization via Problem Decomposition and Reformulation. , 2021, , .		4
20	Efficient evolutionary neural architecture search by modular inheritable crossover. Swarm and Evolutionary Computation, 2021, 64, 100894.	4.5	7
21	Pioneer selection for evolutionary multiobjective optimization with discontinuous feasible region. Swarm and Evolutionary Computation, 2021, 65, 100932.	4.5	6
22	Flow field prediction of supercritical airfoils via variational autoencoder based deep learning framework. Physics of Fluids, 2021, 33, .	1.6	40
23	Operator-Adapted Evolutionary Large-Scale Multiobjective Optimization for Voltage Transformer Ratio Error Estimation. Lecture Notes in Computer Science, 2021, , 672-683.	1.0	1
24	Population Sizing of Evolutionary Large-Scale Multiobjective Optimization. Lecture Notes in Computer Science, 2021, , 41-52.	1.0	2
25	Guiding Evolutionary Multiobjective Optimization With Generic Front Modeling. IEEE Transactions on Cybernetics, 2020, 50, 1106-1119.	6.2	47
26	A Subregion Division-Based Evolutionary Algorithm With Effective Mating Selection for Many-Objective Optimization. IEEE Transactions on Cybernetics, 2020, 50, 3477-3490.	6.2	30
27	A repository of real-world datasets for data-driven evolutionary multiobjective optimization. Complex & Intelligent Systems, 2020, 6, 189-197.	4.0	49
28	Iterated Problem Reformulation for Evolutionary Large-Scale Multiobjective Optimization. , 2020, , .		14
29	Reformulating preferences into constraints for evolutionary multi- and many-objective optimization. Information Sciences, 2020, 541, 1-15.	4.0	15
30	Constructing an automatic diagnosis and severity-classification model for acromegaly using facial photographs by deep learning. Journal of Hematology and Oncology, 2020, 13, 88.	6.9	10
31	Evolutionary Large-Scale Multiobjective Optimization for Ratio Error Estimation of Voltage Transformers. IEEE Transactions on Evolutionary Computation, 2020, 24, 868-881.	7.5	59
32	Efficient Evolutionary Deep Neural Architecture Search (NAS) by Noisy Network Morphism Mutation. Communications in Computer and Information Science, 2020, , 497-508.	0.4	0
33	Efficient Evolutionary Neural Architecture Search (NAS) by Modular Inheritable Crossover. Communications in Computer and Information Science, 2020, , 761-769.	0.4	1
34	A Hybrid Surrogate-Assisted Evolutionary Algorithm for Computationally Expensive Many-Objective Optimization. , 2019, , .		4
35	Surrogate-Assisted Expensive Many-Objective Optimization by Model Fusion. , 2019, , .		5
36	Accelerating Large-Scale Multiobjective Optimization via Problem Reformulation. IEEE Transactions on Evolutionary Computation, 2019, 23, 949-961.	7.5	181

#	Article	IF	Citations
37	A Classification-Based Surrogate-Assisted Evolutionary Algorithm for Expensive Many-Objective Optimization. IEEE Transactions on Evolutionary Computation, 2019, 23, 74-88.	7.5	250
38	Switching ripple suppressor design of the grid-connected inverters: A perspective of many-objective optimization with constraints handling. Swarm and Evolutionary Computation, 2019, 44, 293-303.	4.5	14
39	A tissue P system based evolutionary algorithm for multi-objective VRPTW. Swarm and Evolutionary Computation, 2018, 39, 310-322.	4.5	26
40	Model-based evolutionary algorithms: a short survey. Complex & Intelligent Systems, 2018, 4, 283-292.	4.0	62
41	A region division based diversity maintaining approach for many-objective optimization. Integrated Computer-Aided Engineering, 2017, 24, 279-296.	2.5	61
42	A radial space division based evolutionary algorithm for many-objective optimization. Applied Soft Computing Journal, 2017, 61, 603-621.	4.1	89
43	An improved reference point sampling method on Pareto optimal front. , 2016, , .		11
44	A Multi-objective Optimization Algorithm Based on Tissue P System for VRPTW. Communications in Computer and Information Science, 2016, , 285-301.	0.4	1
45	A Novel Thermodynamic Model and Temperature Control Method of Laser Soldering Systems. Mathematical Problems in Engineering, 2015, 2015, 1-10.	0.6	4