

Yanan Sun

List of Publications by Year in descending order

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Version: 2024-02-01

38
papers

2,638
citations

471509

17
h-index

610901

24
g-index

40
all docs

40
docs citations

40
times ranked

1551
citing authors

#	ARTICLE	IF	CITATIONS
1	Automatically Designing CNN Architectures Using the Genetic Algorithm for Image Classification. IEEE Transactions on Cybernetics, 2020, 50, 3840-3854.	9.5	473
2	Evolving Deep Convolutional Neural Networks for Image Classification. IEEE Transactions on Evolutionary Computation, 2020, 24, 394-407.	10.0	409
3	IGD Indicator-Based Evolutionary Algorithm for Many-Objective Optimization Problems. IEEE Transactions on Evolutionary Computation, 2019, 23, 173-187.	10.0	325
4	Completely Automated CNN Architecture Design Based on Blocks. IEEE Transactions on Neural Networks and Learning Systems, 2020, 31, 1242-1254.	11.3	188
5	A survey on evolutionary machine learning. Journal of the Royal Society of New Zealand, 2019, 49, 205-228.	1.9	159
6	Surrogate-Assisted Evolutionary Deep Learning Using an End-to-End Random Forest-Based Performance Predictor. IEEE Transactions on Evolutionary Computation, 2020, 24, 350-364.	10.0	150
7	A Survey on Evolutionary Neural Architecture Search. IEEE Transactions on Neural Networks and Learning Systems, 2023, 34, 550-570.	11.3	139
8	Evolving Deep Convolutional Neural Networks by Variable-Length Particle Swarm Optimization for Image Classification. , 2018, , .		123
9	Evolving Unsupervised Deep Neural Networks for Learning Meaningful Representations. IEEE Transactions on Evolutionary Computation, 2019, 23, 89-103.	10.0	110
10	A Particle Swarm Optimization-Based Flexible Convolutional Autoencoder for Image Classification. IEEE Transactions on Neural Networks and Learning Systems, 2019, 30, 2295-2309.	11.3	107
11	A New Two-Stage Evolutionary Algorithm for Many-Objective Optimization. IEEE Transactions on Evolutionary Computation, 2019, 23, 748-761.	10.0	90
12	A Hybrid Differential Evolution Approach to Designing Deep Convolutional Neural Networks for Image Classification. Lecture Notes in Computer Science, 2018, , 237-250.	1.3	44
13	Evolving deep neural networks by multi-objective particle swarm optimization for image classification. , 2019, , .		42
14	An Experimental Study on Hyper-parameter Optimization for Stacked Auto-Encoders. , 2018, , .		32
15	Improved Regularity Model-Based EDA for Many-Objective Optimization. IEEE Transactions on Evolutionary Computation, 2018, 22, 662-678.	10.0	29
16	A Novel Training Protocol for Performance Predictors of Evolutionary Neural Architecture Search Algorithms. IEEE Transactions on Evolutionary Computation, 2021, 25, 524-536.	10.0	24
17	Reference line-based Estimation of Distribution Algorithm for many-objective optimization. Knowledge-Based Systems, 2017, 132, 129-143.	7.1	23
18	A Hybrid GA-PSO Method for Evolving Architecture and Short Connections of Deep Convolutional Neural Networks. Lecture Notes in Computer Science, 2019, , 650-663.	1.3	21

#	ARTICLE	IF	CITATIONS
19	Learning a good representation with unsymmetrical auto-encoder. Neural Computing and Applications, 2016, 27, 1361-1367.	5.6	17
20	Evolving Deep Convolutional Variational Autoencoders for Image Classification. IEEE Transactions on Evolutionary Computation, 2021, 25, 815-829.	10.0	17
21	A Graph-Based Encoding for Evolutionary Convolutional Neural Network Architecture Design. , 2019, , .		15
22	Explicit guiding auto-encoders for learning meaningful representation. Neural Computing and Applications, 2017, 28, 429-436.	5.6	13
23	End-to-end heart sound segmentation using deep convolutional recurrent network. Complex & Intelligent Systems, 2021, 7, 2103-2117.	6.5	12
24	A Survey of Advances in Evolutionary Neural Architecture Search. , 2021, , .		10
25	A Flexible Variable-length Particle Swarm Optimization Approach to Convolutional Neural Network Architecture Design. , 2021, , .		9
26	Heart-Darts: Classification of Heartbeats Using Differentiable Architecture Search. , 2021, , .		8
27	A Distributed Framework For EA-Based NAS. IEEE Transactions on Parallel and Distributed Systems, 2020, , 1-1.	5.6	8
28	BenchENAS: A Benchmarking Platform for Evolutionary Neural Architecture Search. IEEE Transactions on Evolutionary Computation, 2022, 26, 1473-1485.	10.0	7
29	Automatic Design of Convolutional Neural Network Architectures Under Resource Constraints. IEEE Transactions on Neural Networks and Learning Systems, 2023, 34, 3832-3846.	11.3	6
30	Homogeneous Architecture Augmentation for Neural Predictor. , 2021, , .		6
31	Evolving Deep Convolutional Neural Networks for Hyperspectral Image Denoising. , 2020, , .		5
32	Evolving transformer architecture for neural machine translation. , 2021, , .		5
33	Manifold dimension reduction based clustering for multi-objective evolutionary algorithm. , 2016, , .		4
34	Global view-based selection mechanism for many-objective evolutionary algorithms. , 2017, , .		2
35	PSO-PS:Parameter Synchronization with Particle Swarm Optimization for Distributed Training of Deep Neural Networks. , 2020, , .		2
36	Analyze COVID-19 CT images based on evolutionary algorithm with dynamic searching space. Complex & Intelligent Systems, 2021, 7, 3195-3209.	6.5	2

#	ARTICLE	IF	CITATIONS
37	Improved Binary Particle Swarm optimization with Evolutionary Population Dynamic for Key Oncogene Selection. , 2020, , .		1
38	ArcText: A Unified Text Approach to Describing Convolutional Neural Network Architectures. IEEE Transactions on Artificial Intelligence, 2022, 3, 526-540.	4.7	1