Feilong Cao

List of Publications by Year
in descending order

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129 papers	2,008 citations	257101 24 h-index	288905 40 g-index
129 all docs	129 docs citations	129 times ranked	1725 citing authors

#	Article	IF	Citations
1	A study on effectiveness of extreme learning machine. Neurocomputing, 2011, 74, 2483-2490.	3.5	238
2	The approximation operators with sigmoidal functions. Computers and Mathematics With Applications, 2009, 58, 758-765.	1.4	171
3	Automatic detection and classification of leukocytes using convolutional neural networks. Medical and Biological Engineering and Computing, 2017, 55, 1287-1301.	1.6	143
4	The estimate for approximation error of neural networks: A constructive approach. Neurocomputing, 2008, 71, 626-630.	3.5	74
5	A probabilistic learning algorithm for robust modeling using neural networks with random weights. Information Sciences, 2015, 313, 62-78.	4.0	54
6	Recovering low-rank and sparse matrix based on the truncated nuclear norm. Neural Networks, 2017, 85, 10-20.	3.3	47
7	Segmentation of White Blood Cells Image Using Adaptive Location and Iteration. IEEE Journal of Biomedical and Health Informatics, 2017, 21, 1644-1655.	3.9	44
8	Image Interpolation via Low-Rank Matrix Completion and Recovery. IEEE Transactions on Circuits and Systems for Video Technology, 2015, 25, 1261-1270.	5.6	42
9	Image Super-Resolution via Adaptive <inline-formula> <tex-math notation="LaTeX">$ell _{p} (0<p<1)$ </tex-math> </inline-formula> Regularization and Sparse Representation. IEEE Transactions on Neural Networks and Learning Systems, 2016, 27, 1550-1561.	7.2	37
10	An iterative learning algorithm for feedforward neural networks with random weights. Information Sciences, 2016, 328, 546-557.	4.0	36
11	Lightweight multi-scale residual networks with attention for image super-resolution. Knowledge-Based Systems, 2020, 203, 106103.	4.0	36
12	Multiscale fused network with additive channelâ€“spatial attention for image segmentation. Knowledge-Based Systems, 2021, 214, 106754.	4.0	35
13	Optimization approximation solution for regression problem based on extreme learning machine. Neurocomputing, 2011, 74, 2475-2482.	3.5	34
14	Sparse algorithms of Random Weight Networks and applications. Expert Systems With Applications, 2014, 41, 2457-2462.	4.4	32
15	Extended feed forward neural networks with random weights for face recognition. Neurocomputing, 2014, 136, 96-102.	3.5	32
16	Deconvolutional neural network for image super-resolution. Neural Networks, 2020, 132, 394-404.	3.3	28
17	Quantum artificial neural networks with applications. Information Sciences, 2015, 290, 1-6.	4.0	27
18	Image super-resolution via adaptive sparse representation. Knowledge-Based Systems, 2017, 124, 23-33.	4.0	27

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19	Deep hybrid dilated residual networks for hyperspectral image classification. Neurocomputing, 2020, 384, 170-181.	3.5	27
20	Feature-Grouped Network With Spectralâ€“Spatial Connected Attention for Hyperspectral Image Classification. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-13.	2.7	27
21	Scattered data approximation by neural networks operators. Neurocomputing, 2016, 190, 237-242.	3.5	26
22	A Novel Rank Approximation Method for Mixture Noise Removal of Hyperspectral Images. IEEE Transactions on Geoscience and Remote Sensing, 2019, 57, 4457-4469.	2.7	26
23	Interpolation and rates of convergence for a class of neural networks. Applied Mathematical Modelling, 2009, 33, 1441-1456.	2.2	25
24	Cascaded dual-scale crossover network for hyperspectral image classification. Knowledge-Based Systems, 2020, 189, 105122.	4.0	25
25	On multivariate Baskakov operator. Journal of Mathematical Analysis and Applications, 2005, 307, 274-291.	0.5	23
26	Approximation capability of interpolation neural networks. Neurocomputing, 2010, 74, 457-460.	3.5	23
27	Pose and illumination variable face recognition via sparse representation and illumination dictionary. Knowledge-Based Systems, 2016, 107, 117-128.	4.0	23
28	A novel deep learning algorithm for incomplete face recognition: Low-rank-recovery network. Neural Networks, 2017, 94, 115-124.	3.3	23
29	New architecture of deep recursive convolution networks for super-resolution. Knowledge-Based Systems, 2019, 178, 98-110.	4.0	23
30	Multi-view graph convolutional networks with attention mechanism. Artificial Intelligence, 2022, 307, 103708.	3.9	22
31	A novel segmentation algorithm for nucleus in white blood cells based on low-rank representation. Neural Computing and Applications, 2017, 28, 503-511.	3.2	21
32	Deep multi-graph neural networks with attention fusion for recommendation. Expert Systems With Applications, 2022, 191, 116240.	4.4	21
33	Efficient saliency detection using convolutional neural networks with feature selection. Information Sciences, 2018, 456, 34-49.	4.0	20
34	Single image super-resolution via multi-scale residual channel attention network. Neurocomputing, 2019, 358, 424-436.	3.5	19
35	Building feedforward neural networks with random weights for large scale datasets. Expert Systems With Applications, 2018, 106, 233-243.	4.4	18
36	Deep neural network compression through interpretability-based filter pruning. Pattern Recognition, 2021, 119, 108056.	5.1	18

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37	The errors of approximation for feedforward neural networks in the <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si1.gif" display="inline" overflow="scroll"><mml:msup><mml:mrow><mml:mi>L</mml:mi></mml:mrow><mml:mrow><mml:mi>p</mml:mi></mml:mrow></mml:msup></mml:math> metric. Mathematical and Computer Modelling, 2009, 49, 1563-1572.	2.0	17
38	A novel face recognition method: Using random weight networks and quasi-singular value decomposition. Neurocomputing, 2015, 151, 1180-1186.	3.5	17
39	A novel decorrelated neural network ensemble algorithm for face recognition. Knowledge-Based Systems, 2015, 89, 541-552.	4.0	16
40	Human face recognition based on ensemble of polyharmonic extreme learning machine. Neural Computing and Applications, 2014, 24, 1317-1326.	3.2	14
41	Salient Object Detection Based on Visual Perceptual Saturation and Two-Stream Hybrid Networks. IEEE Transactions on Image Processing, 2021, 30, 4773-4787.	6.0	14
42	Improved dual-scale residual network for image super-resolution. Neural Networks, 2020, 132, 84-95.	3.3	13
43	A Novel Method for Hyperspectral Image Classification: Deep Network With Adaptive Graph Structure Integration. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-12.	2.7	13
44	A Novel Local-Global Graph Convolutional Method for Point Cloud Semantic Segmentation. IEEE Transactions on Neural Networks and Learning Systems, 2024, PP, 1-15.	7.2	13
45	Surface reconstruction based on extreme learning machine. Neural Computing and Applications, 2013, 23, 283-292.	3.2	12
46	A novel algorithm of extended neural networks for image recognition. Engineering Applications of Artificial Intelligence, 2015, 42, 57-66.	4.3	12
47	Distributed support vector machine in masterâ€“slave mode. Neural Networks, 2018, 101, 94-100.	3.3	12
48	Single image super-resolution based on adaptive convolutional sparse coding and convolutional neural networks. Journal of Visual Communication and Image Representation, 2019, 58, 651-661.	1.7	12
49	A hybrid regularization approach for random vector functional-link networks. Expert Systems With Applications, 2020, 140, 112912.	4.4	12
50	<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si1.gif" display="inline" overflow="scroll"><mml:mi>K</mml:mi></mml:math>-functionals and multivariate Bernstein polynomials. Journal of Approximation Theory, 2008, 155, 125-135.	0.5	11
51	Effective segmentations in white blood cell images using $$epsilon $$ Ïµ -SVR-based detection method. Neural Computing and Applications, 2019, 31, 6767-6780.	3.2	11
52	Algorithms of matrix recovery based on truncated Schatten p-norm. International Journal of Machine Learning and Cybernetics, 2021, 12, 1557-1570.	2.3	11
53	The errors in simultaneous approximation by feed-forward neural networks. Neurocomputing, 2010, 73, 903-907.	3.5	10
54	Adaptive algorithms for low-rank and sparse matrix recovery with truncated nuclear norm. International Journal of Machine Learning and Cybernetics, 2019, 10, 1341-1355.	2.3	10

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55	Are Graph Convolutional Networks With Random Weights Feasible?. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2022, , 1-18.	9.7	10
56	Sparse representation for robust face recognition by dictionary decomposition. Journal of Visual Communication and Image Representation, 2017, 46, 260-268.	1.7	9
57	Image superâ€resolution via adaptive sparse representation and selfâ€learning. IET Computer Vision, 2018, 12, 753-761.	1.3	9
58	A Hybrid Truncated Norm Regularization Method for Matrix Completion. IEEE Transactions on Image Processing, 2019, 28, 5171-5186.	6.0	9
59	The ridge function representation of polynomials and an application to neural networks. Acta Mathematica Sinica, English Series, 2011, 27, 2169-2176.	0.2	8
60	The errors of simultaneous approximation of multivariate functions by neural networks. Computers and Mathematics With Applications, 2011, 61, 3146-3152.	1.4	8
61	A novel multi-discriminator deep network for image segmentation. Applied Intelligence, 2022, 52, 1092-1109.	3.3	8
62	A novel meta-learning framework: Multi-features adaptive aggregation method with information enhancer. Neural Networks, 2021, 144, 755-765.	3.3	8
63	Constructive approximate interpolation by neural networks in the metric space. Mathematical and Computer Modelling, 2010, 52, 1674-1681.	2.0	7
64	A new method for image super-resolution with multi-channel constraints. Knowledge-Based Systems, 2018, 146, 118-128.	4.0	7
65	A stochastic age-structured HIV/AIDS model based on parameters estimation and its numerical calculation. Mathematics and Computers in Simulation, 2021, 190, 159-180.	2.4	7
66	Approximation theorems by positive linear operators in weighted spaces. Positivity, 2011, 15, 87-103.	0.3	6
67	Learning errors of linear programming support vector regression. Applied Mathematical Modelling, 2011, 35, 1820-1828.	2.2	6
68	Generalized extreme learning machine acting on a metric space. Soft Computing, 2012, 16, 1503-1514.	2.1	6
69	Analysis of convergence performance of neural networks ranking algorithm. Neural Networks, 2012, 34, 65-71.	3.3	6
70	A general radial quasi-interpolation operator on the sphere. Journal of Approximation Theory, 2012, 164, 1402-1414.	0.5	6
71	The rate of approximation of Gaussian radial basis neural networks in continuous function space. Acta Mathematica Sinica, English Series, 2013, 29, 295-302.	0.2	6
72	<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si1.gif" overflow="scroll"><mml:msup><mml:mi>L</mml:mi><mml:mi>p</mml:mi></mml:msup></mml:math> approximation by multivariate Baskakovâ€“Kantorovich operators. Journal of Mathematical Analysis and Applications, 2008, 348, 856-861.	0.5	5

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73	Estimation of learning rate of least square algorithm via Jackson operator. Neurocomputing, 2011, 74, 516-521.	3.5	5
74	A novel method for image segmentation: two-stage decoding network with boundary attention. International Journal of Machine Learning and Cybernetics, 2022, 13, 1461-1473.	2.3	5
75	Derivatives of multidimensional Bernstein operators and smoothness. Journal of Approximation Theory, 2005, 132, 241-257.	0.5	4
76	Global errors for approximate approximations with Gaussian kernels on compact intervals. Applied Mathematics and Computation, 2010, 217, 725-734.	1.4	4
77	L^pError Estimates for Scattered Data Interpolation On Spheres. Numerical Functional Analysis and Optimization, 2011, 32, 1205-1218.	0.6	4
78	Learning rates of regularized regression on the unit sphere. Science China Mathematics, 2013, 56, 861-876.	0.8	4
79	Spherical scattered data quasi-interpolation by Gaussian radial basis function. Chinese Annals of Mathematics Series B, 2015, 36, 401-412.	0.2	4
80	Robust object tracking using a sparse coadjutant observation model. Multimedia Tools and Applications, 2018, 77, 30969-30991.	2.6	4
81	Convolutional neural networks with hybrid weights for 3D point cloud classification. Applied Intelligence, 2021, 51, 6983-6996.	3.3	4
82	The estimate for approximation error of spherical neural networks. Mathematical Methods in the Applied Sciences, 2011, 34, 1888-1895.	1.2	3
83	Learning rates of least-square regularized regression with strongly mixing observation. International Journal of Machine Learning and Cybernetics, 2012, 3, 277-283.	2.3	3
84	A New System of Face Recognition: Using Fuzziness and Sparsity. International Journal of Uncertainty, Fuzziness and Knowlege-Based Systems, 2015, 23, 829-844.	0.9	3
85	Leukocyte image segmentation using feed forward neural networks with random weights. , 2015, , .		3
86	Multiscale interpolation on the sphere: Convergence rate and inverse theorem. Applied Mathematics and Computation, 2015, 263, 134-150.	1.4	3
87	Sparsity-Based Spatiotemporal Fusion via Adaptive Multi-Band Constraints. Remote Sensing, 2018, 10, 1646.	1.8	3
88	Super-resolution using neighbourhood regression with local structure prior. Signal Processing: Image Communication, 2019, 72, 58-68.	1.8	3
89	A Compact Recursive Dense Convolutional Network for image classification. Neurocomputing, 2020, 372, 8-16.	3.5	3
90	An automatic 2D to 3D video conversion approach based on RGB-D images. Multimedia Tools and Applications, 2021, 80, 19179-19201.	2.6	3

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91	A novel 3D shape classification algorithm: point-to-vector capsule network. Neural Computing and Applications, 2021, 33, 16315-16328.	3.2	3
92	The capability of approximation for neural networks interpolant on the sphere. Mathematical Methods in the Applied Sciences, 2010, 34, n/a-n/a.	1.2	2
93	Approximation by Multivariate Baskakov-Durrmeyer Operator. Journal of Inequalities and Applications, 2011, 2011, 158219.	0.5	2
94	The essential rate of approximation for radial function manifold. Science China Mathematics, 2011, 54, 1985-1994.	0.8	2
95	Error estimates of quasi-interpolation and its derivatives. Journal of Computational and Applied Mathematics, 2012, 236, 3137-3146.	1.1	2
96	A Reduction Algorithm for the Big Data in 3D Surface Reconstruction. , 2013, , .		2
97	Extreme learning machine with errors in variables. World Wide Web, 2014, 17, 1205-1216.	2.7	2
98	Scattered data quasiâ€interpolation on spheres. Mathematical Methods in the Applied Sciences, 2015, 38, 2527-2536.	1.2	2
99	On a problem of Hornik. Acta Mathematica Sinica, English Series, 2015, 31, 1141-1148.	0.2	2
100	Construction of feedforward neural networks with simple architectures and approximation abilities. Mathematical Methods in the Applied Sciences, 2021, 44, 1788-1795.	1.2	2
101	3D mixed CNNs with edge-point feature learning. Knowledge-Based Systems, 2021, 221, 106985.	4.0	2
102	Superâ€resolution reconstruction: using nonâ€local structure similarity and edge sharpness dictionary. IET Image Processing, 2017, 11, 1254-1264.	1.4	2
103	Lower estimation of approximation rate for neural networks. Science in China Series F: Information Sciences, 2009, 52, 1321-1327.	1.1	1
104	Optimal rate of the regularized regression learning algorithm. International Journal of Computer Mathematics, 2011, 88, 1471-1483.	1.0	1
105	Estimation of convergence rate for multi-regression learning algorithm. Science China Information Sciences, 2012, 55, 701-713.	2.7	1
106	Generalization Bounds of Regularization Algorithm with Gaussian Kernels. Neural Processing Letters, 2014, 39, 179-194.	2.0	1
107	Approximation by semigroup of spherical operators. Frontiers of Mathematics in China, 2014, 9, 387-416.	0.4	1
108	Random sampling scattered data with multivariate Bernstein polynomials. Chinese Annals of Mathematics Series B, 2014, 35, 607-618.	0.2	1

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109	Modeling a stochastic age-structured capital system with Poisson jumps using neural networks. Information Sciences, 2020, 516, 254-265.	4.0	1
110	Consensus-based Parallel Algorithm for Robust Convex Optimization with Scenario Approach in Colored Network. Lecture Notes in Computer Science, 2017, , 222-231.	1.0	1
111	Robust object tracking using a sparse coadjutant observation model. , 2018, 77, 30969.		1
112	Approximation by a class of neural network operators on scattered data. Mathematical Methods in the Applied Sciences, 0, , .	1.2	1
113	The Constructive Methods and Numerical Results for Approximation of Neural Networks. , 2007, , .		0
114	A Universal Logic Propositional Calculus System Based on 1-level Universal Operation Models. , 2009, , .		0
115	Fuzzy Congruence Relations and Fuzzy Order Filters. , 2009, , .		0
116	Learning rates for SVM classifiers with polynomial kernels. , 2009, , .		0
117	Neural networks for interpolation of functionals on a Hilbert space. , 2010, , .		0
118	Learning rates for multi-kernel linear programming classifiers. Frontiers of Mathematics in China, 2011, 6, 203-219.	0.4	0
119	Cubature formula for spherical basis function networks. Chinese Annals of Mathematics Series B, 2012, 33, 807-814.	0.2	0
120	Estimates of learning rates of regularized regression via polyline functions. Mathematical Methods in the Applied Sciences, 2012, 35, 174-181.	1.2	0
121	Learning Rates for Regularized Classifiers Using Trigonometric Polynomial Kernels. Neural Processing Letters, 2012, 35, 265-281.	2.0	0
122	Multivariate weighted bernstein-type inequality and its applications. Acta Mathematica Scientia, 2012, 32, 471-482.	0.5	0
123	An oracle inequality for regularized risk minimizers with strongly mixing observations. Frontiers of Mathematics in China, 2013, 8, 301-315.	0.4	0
124	Local uniform error estimates for spherical basis functions interpolation. Mathematical Methods in the Applied Sciences, 2014, 37, 1364-1376.	1.2	0
125	Compressed classification learning with Markov chain samples. Neural Networks, 2014, 50, 90-97.	3.3	0
126	A STUDY ON THE ERROR OF DISTRIBUTED ALGORITHMS FOR BIG DATA CLASSIFICATION WITH SVM. ANZIAM Journal, 2017, 58, 231-237.	0.3	0

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127	APPROXIMATION BY SPHERICAL NEURAL NETWORKS WITH ZONAL FUNCTIONS. ANZIAM Journal, 2017, 58, 238-246.	0.3	0
128	Consensusâ€based distributed learning for robust convex optimization with a scenario approach. Concurrency Computation Practice and Experience, 2021, 33, e5049.	1.4	0
129	The sparse factorization of nonnegative matrix in distributed network. Advances in Computational Intelligence, 2021, 1, 1.	0.7	0