Weikuan Jia

List of Publications by Year
in descending order

78 papers	1,748 citations	346980 22 h-index	340414 39 g-index
78 all docs	78 docs citations	78 times ranked	1364 citing authors

#	Article	IF	Citations
1	RBD-Net: robust breakage detection algorithm for industrial leather. Journal of Intelligent Manufacturing, 2023, 34, 2783-2796.	4.4	2
2	RS-Net: robust segmentation of green overlapped apples. Precision Agriculture, 2022, 23, 492-513.	3.1	26
3	DLNet: Accurate segmentation of green fruit in obscured environments. Journal of King Saud University - Computer and Information Sciences, 2022, 34, 7259-7270.	2.7	7
4	Feature dimensionality reduction: a review. Complex & Intelligent Systems, 2022, 8, 2663-2693.	4.0	145
5	A fast and efficient green apple object detection model based on Foveabox. Journal of King Saud University - Computer and Information Sciences, 2022, , .	2.7	3
6	An accurate detection and segmentation model of obscured green fruits. Computers and Electronics in Agriculture, 2022, 197, 106984.	3.7	13
7	A novel green apple segmentation algorithm based on ensemble U-Net under complex orchard environment. Computers and Electronics in Agriculture, 2021, 180, 105900.	3.7	51
8	Prediction Method of Three‐Dimensional Crack Propagation Path Based on Deep Learning Application. Advanced Engineering Materials, 2021, 23, 2001043.	1.6	4
9	An improved grid search algorithm to optimize SVR for prediction. Soft Computing, 2021, 25, 5633-5644.	2.1	62
10	Symmetric Deformable Registration via Learning a Pseudomean for MR Brain Images. Journal of Healthcare Engineering, 2021, 2021, 1-8.	1.1	2
11	EEG-Based Seizure detection using linear graph convolution network with focal loss. Computer Methods and Programs in Biomedicine, 2021, 208, 106277.	2.6	43
12	SDOF-GAN: Symmetric Dense Optical Flow Estimation With Generative Adversarial Networks. IEEE Transactions on Image Processing, 2021, 30, 6036-6049.	6.0	6
13	FoveaMask: A fast and accurate deep learning model for green fruit instance segmentation. Computers and Electronics in Agriculture, 2021, 191, 106488.	3.7	24
14	An Effective Anchor-Free model with Transformer for Logo Detection<Subtitle>Efficient Logo Detection via Transformer. , 2021, , .		0
15	Smart Education Under 5G+. , 2021, , .		2
16	Recognizing Students' Emotions based on Facial Expression Analysis. , 2021, , .		3
17	Deep-Learning-Based Small Surface Defect Detection via an Exaggerated Local Variation-Based Generative Adversarial Network. IEEE Transactions on Industrial Informatics, 2020, 16, 1343-1351.	7.2	72
18	Even faster retinal vessel segmentation via accelerated singular value decomposition. Neural Computing and Applications, 2020, 32, 1893-1902.	3.2	7

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19	Energy-based structural least squares MBSVM for classification. Applied Intelligence, 2020, 50, 681-697.	3.3	7
20	Active constraint spectral clustering based on Hessian matrix. Soft Computing, 2020, 24, 2381-2390.	2.1	10
21	Ensemble Adaptation Networks with low-cost unsupervised hyper-parameter search. Pattern Analysis and Applications, 2020, 23, 1215-1224.	3.1	0
22	Fruit recognition based on pulse coupled neural network and genetic Elman algorithm application in apple harvesting robot. International Journal of Advanced Robotic Systems, 2020, 17, 172988141989747.	1.3	20
23	Multimodality registration for ocular multispectral images via co-embedding. Neural Computing and Applications, 2020, 32, 5435-5447.	3.2	1
24	An adversarial non-volume preserving flow model with Boltzmann priors. International Journal of Machine Learning and Cybernetics, 2020, 11, 913-921.	2.3	1
25	Guided Networks for Few-Shot Image Segmentation and Fully Connected CRFs. Electronics (Switzerland), 2020, 9, 1508.	1.8	0
26	Autonomous navigation control based on improved adaptive filtering for agricultural robot. International Journal of Advanced Robotic Systems, 2020, 17, 172988142092535.	1.3	5
27	Channel and Spatial Attention Regression Network for Cup-to-Disc Ratio Estimation. Electronics (Switzerland), 2020, 9, 909.	1.8	3
28	Apple harvesting robot under information technology: A review. International Journal of Advanced Robotic Systems, 2020, 17, 172988142092531.	1.3	74
29	Density Peak Clustering Algorithm Considering Topological Features. Electronics (Switzerland), 2020, 9, 459.	1.8	1
30	Multiple birth support vector machine based on recurrent neural networks. Applied Intelligence, 2020, 50, 2280-2292.	3.3	11
31	Detection and Localization of Overlapped Fruits Application in an Apple Harvesting Robot. Electronics (Switzerland), 2020, 9, 1023.	1.8	24
32	Pair-Wise Matching of EEG Signals for Epileptic Identification via Convolutional Neural Network. IEEE Access, 2020, 8, 40008-40017.	2.6	11
33	Adversarial Training Methods for Boltzmann Machines. IEEE Access, 2020, 8, 4594-4604.	2.6	5
34	Interactive Trimap Generation for Digital Matting Based on Single-Sample Learning. Electronics (Switzerland), 2020, 9, 659.	1.8	2
35	Detection and segmentation of overlapped fruits based on optimized mask R-CNN application in apple harvesting robot. Computers and Electronics in Agriculture, 2020, 172, 105380.	3.7	191
36	A novel prediction method of complex univariate time series based on k-means clustering. Soft Computing, 2020, 24, 16425-16437.	2.1	4

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37	Revealing False Positive Features in Epileptic EEG Identification. International Journal of Neural Systems, 2020, 30, 2050017.	3.2	14
38	Research on fingerprint classification based on twin support vector machine. IET Image Processing, 2020, 14, 231-235.	1.4	12
39	Semi-Supervised Transformation and Deep Embedding-based Anomaly Identification for Agricultural Internet of Things. IEEE Sensors Journal, 2020, , 1-1.	2.4	5
40	Single image super-resolution using a polymorphic parallel CNN. Applied Intelligence, 2019, 49, 292-300.	3.3	36
41	Face Identification With Top-Push Constrained Generalized Low-Rank Approximation of Matrices. IEEE Access, 2019, 7, 160998-161007.	2.6	1
42	Cucumber Fruits Detection in Greenhouses Based on Instance Segmentation. IEEE Access, 2019, 7, 139635-139642.	2.6	67
43	A new asynchronous reinforcement learning algorithm based on improved parallel PSO. Applied Intelligence, 2019, 49, 4211-4222.	3.3	30
44	A Detection Method for Apple Fruits Based on Color and Shape Features. IEEE Access, 2019, 7, 67923-67933.	2.6	58
45	An effective asynchronous framework for small scale reinforcement learning problems. Applied Intelligence, 2019, 49, 4303-4318.	3.3	12
46	A Reliable Small Sample Classification Algorithm by Elman Neural Network Based on PLS and GA. Journal of Classification, 2019, 36, 306-321.	1.2	4
47	Automated recognition and discrimination of human–animal interactions using Fisher vector and hidden Markov model. Signal, Image and Video Processing, 2019, 13, 993-1000.	1.7	3
48	Fast Recognition and Location of Target Fruit Based on Depth Information. IEEE Access, 2019, 7, 170553-170563.	2.6	32
49	Joint Fine-Grained Components Continuously Enhance Chinese Word Embeddings. IEEE Access, 2019, 7, 174699-174708.	2.6	3
50	Applications of asynchronous deep reinforcement learning based on dynamic updating weights. Applied Intelligence, 2019, 49, 581-591.	3.3	15
51	Multimodal correlation deep belief networks for multi-view classification. Applied Intelligence, 2019, 49, 1925-1936.	3.3	17
52	A novel optimized GA–Elman neural network algorithm. Neural Computing and Applications, 2019, 31, 449-459.	3.2	44
53	Collaborative filtering model for enhancing fingerprint image. IET Image Processing, 2018, 12, 149-157.	1.4	14
54	The recognition of apple fruits in plastic bags based on block classification. Precision Agriculture, 2018, 19, 735-749.	3.1	30

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55	An Improved TFIDF Algorithm Based on Dual Parallel Adaptive Computing Model. , 2018, , .		3
56	A new optimization particle filtering navigation location method for aquatic plants cleaning workboat in crab farming. International Journal of Advanced Robotic Systems, 2018, 15, 172988141878791.	1.3	1
57	Asynchronous reinforcement learning algorithms for solving discrete space path planning problems. Applied Intelligence, 2018, 48, 4889-4904.	3.3	26
58	Optic Disc Detection from Fundus Photography via Best-Buddies Similarity. Applied Sciences (Switzerland), 2018, 8, 709.	1.3	5
59	Image Segmentation by Searching for Image Feature Density Peaks. Applied Sciences (Switzerland), 2018, 8, 969.	1.3	4
60	Deep Hierarchical Representation from Classifying Logo-405. Complexity, 2017, 2017, 1-12.	0.9	6
61	An optimized RBF neural network algorithm based on partial least squares and genetic algorithm for classification of small sample. Applied Soft Computing Journal, 2016, 48, 373-384.	4.1	71
62	A method of segmenting apples at night based on color and position information. Computers and Electronics in Agriculture, 2016, 122, 118-123.	3.7	42
63	Aquatic Image Segmentation Method Based on HS-PCNN for Automatic Operation Boat in Crab Farming. Journal of Computational and Theoretical Nanoscience, 2016, 13, 7366-7374.	0.4	5
64	Fast recognition of overlapping fruit based on maximum optimisation for apple harvesting robot. International Journal of Collaborative Intelligence, 2015, 1, 124.	0.2	3
65	A New Image Denoising Method by Combining WT with ICA. Mathematical Problems in Engineering, 2015, 2015, 1-10.	0.6	8
66	An optimized classification algorithm by BP neural network based on PLS and HCA. Applied Intelligence, 2015, 43, 176-191.	3.3	70
67	An Optimized Classification Algorithm by Neural Network Ensemble Based on PLS and OLS. Mathematical Problems in Engineering, 2014, 2014, 1-8.	0.6	3
68	Study on Optimized Elman Neural Network Classification Algorithm Based on PLS and CA. Computational Intelligence and Neuroscience, 2014, 2014, 1-13.	1.1	13
69	A New Optimized GA-RBF Neural Network Algorithm. Computational Intelligence and Neuroscience, 2014, 2014, 1-6.	1.1	23
70	Research on using genetic algorithms to optimize Elman neural networks. Neural Computing and Applications, 2013, 23, 293-297.	3.2	57
71	Research of assembling optimized classification algorithm by neural network based on Ordinary Least Squares (OLS). Neural Computing and Applications, 2013, 22, 187-193.	3.2	21
72	A survey on feature extraction for pattern recognition. Artificial Intelligence Review, 2012, 37, 169-180.	9.7	94

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73	Research of neural network algorithm based on factor analysis and cluster analysis. Neural Computing and Applications, 2011, 20, 297-302.	3.2	27
74	Research of neural network algorithm based on FA and RBF. , 2010, , .		6
75	Neural Network Research Progress and Applications in Forecast. Lecture Notes in Computer Science, 2008, , 783-793.	1.0	7
76	PCA-Based Elman Neural Network Algorithm. Lecture Notes in Computer Science, 2008, , 315-321.	1.0	7
77	Fast Location and Recognition of Green Apple Based on RGB-D Image. Frontiers in Plant Science, 0, 13, .	1.7	2
78	YOLOF-Snake: An Efficient Segmentation Model for Green Object Fruit. Frontiers in Plant Science, 0, 13, .	1.7	5