Chi-Man Vong

List of Publications by Year
in descending order

105	3,518	172457	155660
papers	citations	29 h-index	55 g-index

107	107	107	3403
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Local Receptive Fields Based Extreme Learning Machine. IEEE Computational Intelligence Magazine, 2015, 10, 18-29.	3.2	299
2	Sparse Bayesian Extreme Learning Machine for Multi-classification. IEEE Transactions on Neural Networks and Learning Systems, 2014, 25, 836-843.	11.3	161
3	Rate-Dependent Hysteresis Modeling and Control of a Piezostage Using Online Support Vector Machine and Relevance Vector Machine. IEEE Transactions on Industrial Electronics, 2012, 59, 1988-2001.	7.9	148
4	SeqViews2SeqLabels: Learning 3D Global Features via Aggregating Sequential Views by RNN With Attention. IEEE Transactions on Image Processing, 2019, 28, 658-672.	9.8	148
5	Kernel-Based Multilayer Extreme Learning Machines for Representation Learning. IEEE Transactions on Neural Networks and Learning Systems, 2018, 29, 757-762.	11.3	141
6	Modeling and optimization of biodiesel engine performance using kernel-based extreme learning machine and cuckoo search. Renewable Energy, 2015, 74, 640-647.	8.9	134
7	Real-time fault diagnosis for gas turbine generator systems using extreme learning machine. Neurocomputing, 2014, 128, 249-257.	5.9	128
8	Prediction of automotive engine power and torque using least squares support vector machines and Bayesian inference. Engineering Applications of Artificial Intelligence, 2006, 19, 277-287.	8.1	125
9	3D2SeqViews: Aggregating Sequential Views for 3D Global Feature Learning by CNN With Hierarchical Attention Aggregation. IEEE Transactions on Image Processing, 2019, 28, 3986-3999.	9.8	105
10	Modeling and optimization of biodiesel engine performance using advanced machine learning methods. Energy, 2013, 55, 519-528.	8.8	104
11	Capturing High-Discriminative Fault Features for Electronics-Rich Analog System via Deep Learning. IEEE Transactions on Industrial Informatics, 2017, 13, 1213-1226.	11.3	99
12	Novel Efficient RNN and LSTM-Like Architectures: Recurrent and Gated Broad Learning Systems and Their Applications for Text Classification. IEEE Transactions on Cybernetics, 2021, 51, 1586-1597.	9.5	97
13	A Rotating Machinery Fault Diagnosis Method Based on Feature Learning of Thermal Images. IEEE Access, 2019, 7, 12348-12359.	4.2	73
14	Modelling of diesel engine performance using advanced machine learning methods under scarce and exponential data set. Applied Soft Computing Journal, 2013, 13, 4428-4441.	7.2	72
15	Drug screening of cancer cell lines and human primary tumors using droplet microfluidics. Scientific Reports, 2017, 7, 9109.	3.3	69
16	Sparse Bayesian extreme learning committee machine for engine simultaneous fault diagnosis. Neurocomputing, 2016, 174, 331-343.	5.9	63
17	A New Framework of Simultaneous-Fault Diagnosis Using Pairwise Probabilistic Multi-Label Classification for Time-Dependent Patterns. IEEE Transactions on Industrial Electronics, 2013, 60, 3372-3385.	7.9	61
18	Ensemble extreme learning machine and sparse representation classification. Journal of the Franklin Institute, 2016, 353, 4526-4541.	3.4	59

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19	Fast detection of impact location using kernel extreme learning machine. Neural Computing and Applications, 2016, 27, 121-130.	5.6	53
20	Predicting minority class for suspended particulate matters level by extreme learning machine. Neurocomputing, 2014, 128, 136-144.	5.9	51
21	A Patent Analysis of Prognostics and Health Management (PHM) Innovations for Electrical Systems. IEEE Access, 2018, 6, 18088-18107.	4.2	46
22	Sparse Bayesian extreme learning machine and its application to biofuel engine performance prediction. Neurocomputing, 2015, 149, 397-404.	5.9	45
23	Mesh Convolutional Restricted Boltzmann Machines for Unsupervised Learning of Features With Structure Preservation on 3-D Meshes. IEEE Transactions on Neural Networks and Learning Systems, 2017, 28, 2268-2281.	11.3	41
24	Deep Spatiality: Unsupervised Learning of Spatially-Enhanced Global and Local 3D Features by Deep Neural Network With Coupled Softmax. IEEE Transactions on Image Processing, 2018, 27, 3049-3063.	9.8	37
25	Case-based reasoning and adaptation in hydraulic production machine design. Engineering Applications of Artificial Intelligence, 2002, 15, 567-585.	8.1	36
26	Unsupervised 3D Local Feature Learning by Circle Convolutional Restricted Boltzmann Machine. IEEE Transactions on Image Processing, 2016, 25, 5331-5344.	9.8	35
27	Model predictive engine air-ratio control using online sequential extreme learning machine. Neural Computing and Applications, 2016, 27, 79-92.	5.6	33
28	Scale adaptive image cropping for UAV object detection. Neurocomputing, 2019, 366, 305-313.	5.9	33
29	A Deep Forest-Based Fault Diagnosis Scheme for Electronics-Rich Analog Circuit Systems. IEEE Transactions on Industrial Electronics, 2021, 68, 10087-10096.	7.9	33
30	Intelligent diagnosis of gastric intestinal metaplasia based on convolutional neural network and limited number of endoscopic images. Computers in Biology and Medicine, 2020, 126, 104026.	7.0	31
31	Novel up-scale feature aggregation for object detection in aerial images. Neurocomputing, 2020, 411, 364-374.	5.9	30
32	Adaptive neural control of vehicle yaw stability with active front steering using an improved random projection neural network. Vehicle System Dynamics, 2021, 59, 396-414.	3.7	30
33	BoSCC: Bag of Spatial Context Correlations for Spatially Enhanced 3D Shape Representation. IEEE Transactions on Image Processing, 2017, 26, 3707-3720.	9.8	29
34	3DViewGraph: Learning Global Features for 3D Shapes from A Graph of Unordered Views with Attention. , 2019, , .		29
35	Simultaneous-fault detection based on qualitative symptom descriptions for automotive engine diagnosis. Applied Soft Computing Journal, 2014, 22, 238-248.	7.2	28
36	Encrypted image classification based on multilayer extreme learning machine. Multidimensional Systems and Signal Processing, 2017, 28, 851-865.	2.6	28

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37	An improved feature extraction algorithm for automatic defect identification based on eddy current pulsed thermography. Mechanical Systems and Signal Processing, 2018, 113, 5-21.	8.0	27
38	Empirical kernel map-based multilayer extreme learning machines for representation learning. Neurocomputing, 2018, 310, 265-276.	5.9	27
39	Self-evolving fuzzy model-based controller with online structure and parameter learning for hypersonic vehicle. Aerospace Science and Technology, 2017, 64, 1-15.	4.8	26
40	Unsupervised Learning of 3-D Local Features From Raw Voxels Based on a Novel Permutation Voxelization Strategy. IEEE Transactions on Cybernetics, 2019, 49, 481-494.	9.5	26
41	Postboosting Using Extended G-Mean for Online Sequential Multiclass Imbalance Learning. IEEE Transactions on Neural Networks and Learning Systems, 2018, 29, 6163-6177.	11.3	24
42	Online extreme learning machine based modeling and optimization for point-by-point engine calibration. Neurocomputing, 2018, 277, 187-197.	5.9	23
43	Accurate and efficient sequential ensemble learning for highly imbalanced multi-class data. Neural Networks, 2020, 128, 268-278.	5.9	23
44	Case-based expert system using wavelet packet transform and kernel-based feature manipulation for engine ignition system diagnosis. Engineering Applications of Artificial Intelligence, 2011, 24, 1281-1294.	8.1	21
45	Short-Term Prediction of Air Pollution in Macau Using Support Vector Machines. Journal of Control Science and Engineering, 2012, 2012, 1-11.	1.0	21
46	Imbalanced Learning for Air Pollution by Meta-Cognitive Online Sequential Extreme Learning Machine. Cognitive Computation, 2015, 7, 381-391.	5.2	21
47	Case-based adaptation for automotive engine electronic control unit calibration. Expert Systems With Applications, 2010, 37, 3184-3194.	7.6	20
48	Fast and accurate face detection by sparse Bayesian extreme learning machine. Neural Computing and Applications, 2015, 26, 1149-1156.	5.6	20
49	Efficient extreme learning machine via very sparse random projection. Soft Computing, 2018, 22, 3563-3574.	3.6	20
50	Simultaneous-Fault Diagnosis of Gas Turbine Generator Systems Using a Pairwise-Coupled Probabilistic Classifier. Mathematical Problems in Engineering, 2013, 2013, 1-14.	1.1	19
51	A novel meta-cognitive fuzzy-neural model with backstepping strategy for adaptive control of uncertain nonlinear systems. Neurocomputing, 2017, 230, 332-344.	5.9	19
52	Robust Online Multilabel Learning Under Dynamic Changes in Data Distribution With Labels. IEEE Transactions on Cybernetics, 2020, 50, 374-385.	9.5	19
53	Scale-adaptive super-feature based MetricUNet for brain tumor segmentation. Biomedical Signal Processing and Control, 2022, 73, 103442.	5.7	19
54	Fuzzy KNN Method With Adaptive Nearest Neighbors. IEEE Transactions on Cybernetics, 2022, 52, 5380-5393.	9.5	18

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55	Adaptive Control Using Fully Online Sequential-Extreme Learning Machine and a Case Study on Engine Air-Fuel Ratio Regulation. Mathematical Problems in Engineering, 2014, 2014, 1-11.	1.1	17
56	Light-weight network for real-time adaptive stereo depth estimation. Neurocomputing, 2021, 441, 118-127.	5.9	17
57	Post-boosting of classification boundary for imbalanced data using geometric mean. Neural Networks, 2017, 96, 101-114.	5.9	16
58	Parameter-Free Loss for Class-Imbalanced Deep Learning in Image Classification. IEEE Transactions on Neural Networks and Learning Systems, 2023, 34, 3234-3240.	11.3	16
59	Adaptive control of rapidly time-varying discrete-time system using initial-training-free online extreme learning machine. Neurocomputing, 2016, 194, 117-125.	5.9	15
60	Data preprocessing and modelling of electronically-controlled automotive engine power performance using kernel principal components analysis and least squares support vector machines. International Journal of Vehicle Systems Modelling and Testing, 2008, 3, 312.	0.1	14
61	Framework of vehicle emission inspection and control through RFID and traffic lights. , 2011, , .		14
62	Simultaneous-Fault Diagnosis of Automotive Engine Ignition Systems Using Prior Domain Knowledge and Relevance Vector Machine. Mathematical Problems in Engineering, 2013, 2013, 1-19.	1.1	12
63	Efficient point-by-point engine calibration using machine learning and sequential design of experiment strategies. Journal of the Franklin Institute, 2018, 355, 1517-1538.	3.4	12
64	An intelligent propagation distance estimation algorithm based on fundamental frequency energy distribution for periodic vibration localization. Journal of the Franklin Institute, 2018, 355, 1539-1558.	3.4	12
65	Multinomial Bayesian extreme learning machine for sparse and accurate classification model. Neurocomputing, 2021, 423, 24-33.	5.9	12
66	A Novel Multiple Feature-Based Engine Knock Detection System using Sparse Bayesian Extreme Learning Machine. Cognitive Computation, 2022, 14, 828-851.	5.2	12
67	Extreme Learning Machine for Huge Hypotheses Re-ranking in Statistical Machine Translation. Cognitive Computation, 2017, 9, 285-294.	5.2	11
68	Real-Time Response-Based Fault Analysis and Prognostics Techniques of Nonisolated DCâ€“DC Converters. IEEE Access, 2019, 7, 67996-68009.	4.2	11
69	Application of RFID technology and the maximum spanning tree algorithm for solving vehicle emissions in cities on Internet of Things. , 2014, , .		10
70	Efficient Outdoor Video Semantic Segmentation Using Feedback-Based Fully Convolution Neural Network. IEEE Transactions on Industrial Informatics, 2020, 16, 5128-5136.	11.3	10
71	Supervised Extreme Learning Machine-Based Auto-Encoder for Discriminative Feature Learning. IEEE Access, 2020, 8, 11700-11709.	4.2	10
72	Model Predictive Engine Air-Ratio Control Using Online Sequential Relevance Vector Machine. Journal of Control Science and Engineering, 2012, 2012, 1-15.	1.0	9

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73	A new framework for intelligent simultaneous-fault diagnosis of rotating machinery using pairwise-coupled sparse Bayesian extreme learning committee machine. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2017, 231, 1146-1161.	2.1	9
74	Adaptive Self-Learning Fuzzy Autopilot Design for Uncertain Bank-to-Turn Missiles. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2017, 139, .	1.6	9
75	A novel distance estimation algorithm for periodic surface vibrations based on frequency band energy percentage feature. Mechanical Systems and Signal Processing, 2018, 113, 222-236.	8.0	9
76	Inspection and control of vehicle emissions through Internet of Things and traffic lights. , 2013, , .		8
77	An Enhanced Hierarchical Extreme Learning Machine with Random Sparse Matrix Based Autoencoder. , 2019, , .		8
78	Adaptive neural tracking control for automotive engine idle speed regulation using extreme learning machine. Neural Computing and Applications, 2020, 32, 14399-14409.	5.6	8
79	Ground Plane Context Aggregation Network for Day-and-Night on Vehicular Pedestrian Detection. IEEE Transactions on Intelligent Transportation Systems, 2021, 22, 6395-6406.	8.0	8
80	DIESEL ENGINE MODELLING USING EXTREME LEARNING MACHINE UNDER SCARCE AND EXPONENTIAL DATA SETS. International Journal of Uncertainty, Fuzziness and Knowlege-Based Systems, 2013, 21, 87-98.	1.9	7
81	An Analytical Study on Reasoning of Extreme Learning Machine for Classification from Its Inductive Bias. Cognitive Computation, 2016, 8, 746-756.	5.2	7
82	Online wavelet least-squares support vector machine fuzzy predictive control for engine lambda regulation. International Journal of Engine Research, 2016, 17, 866-885.	2.3	7
83	Advances in extreme learning machines (ELM2015). Neurocomputing, 2017, 261, 1-3.	5.9	7
84	Initial-training-free online sequential extreme learning machine based adaptive engine airâ€“fuel ratio control. International Journal of Machine Learning and Cybernetics, 2019, 10, 2245-2256.	3.6	7
85	Extreme semi-supervised learning for multiclass classification. Neurocomputing, 2020, 376, 103-118.	5.9	7
86	Homo-ELM: fully homomorphic extreme learning machine. International Journal of Machine Learning and Cybernetics, 2020, 11, 1531-1540.	3.6	7
87	Easy Domain Adaptation for cross-subject multi-view emotion recognition. Knowledge-Based Systems, 2022, 239, 107982.	7.1	7
88	Fast Training of Adversarial Deep Fuzzy Classifier by Downsizing Fuzzy Rules With Gradient Guided Learning. IEEE Transactions on Fuzzy Systems, 2022, 30, 1967-1980.	9.8	6
89	Accurate and Efficient Large-Scale Multi-Label Learning With Reduced Feature Broad Learning System Using Label Correlation. IEEE Transactions on Neural Networks and Learning Systems, 2023, 34, 10240-10253.	11.3	6
90	Fault Tolerance Automotive Air-Ratio Control Using Extreme Learning Machine Model Predictive Controller. Mathematical Problems in Engineering, 2015, 2015, 1-10.	1.1	5

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91	Efficient shape classification using region descriptors. Multimedia Tools and Applications, 2017, 76, 83-102.	3.9	5
92	Ignition Pattern Analysis for Automotive Engine Trouble Diagnosis Using Wavelet Packet Transform and Support Vector Machines. Chinese Journal of Mechanical Engineering (English Edition), 2011, 24, 870.	3.7	5
93	Modelling of Petrol Engine Power Using Incremental Least-Square Support Vector Machines for ECU Calibration. , 2010, , .		4
94	Modelling and prediction of automotive engine airratio using relevance vector machine. , 2012, , .		4
95	Efficient Outdoor 3D Point Cloud Semantic Segmentation for Critical Road Objects and Distributed Contexts. Lecture Notes in Computer Science, 2020, , 499-514.	1.3	4
96	Persistent Homology based Graph Convolution Network for Fine-grained 3D Shape Segmentation. , 2021, , .		3
97	Variation-Oriented Data Filtering for Improvement in Model Complexity of Air Pollutant Prediction Model. Mathematical Problems in Engineering, 2014, 2014, 1-14.	1.1	1
98	Approximate empirical kernel map-based iterative extreme learning machine for clustering. Neural Computing and Applications, 2020, 32, 8031-8046.	5.6	1
99	An Inverse-Free and Scalable Sparse Bayesian Extreme Learning Machine for Classification Problems. IEEE Access, 2021, 9, 87543-87551.	4.2	1
100	Case-Based Design for Hydraulic Power Circuit. Communications in Computer and Information Science, 2011, , 269-275.	0.5	1
101	Flexibility study on telemetric vehicle emission examination. International Journal of Satellite Communications Policy and Management, 2012, 1, 220.	0.0	0
102	Hybrid model predictive controller for engine air-ratio control. , 2014, , .		0
103	Intelligent monitoring, diagnosis and control in mechanical engineering. Advances in Mechanical Engineering, 2018, 10, 168781401881211.	1.6	0
104	Preliminary Study on Telemetric Vehicle Emission Examination. Lecture Notes in Electrical Engineering, 2012, , 443-451.	0.4	0
105	Fast AUC Maximization Learning Machine With Simultaneous Outlier Detection. IEEE Transactions on Cybernetics, 2023, 53, 6843-6857.	9.5	0