Chi-Man Vong

List of Publications by Year
in descending order

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Version: 2024-02-01

105 papers	3,518 citations	196777 29 h-index	175968 55 g-index
107 all docs	107 docs citations	107 times ranked	3824 citing authors

#	Article	IF	Citations
1	Parameter-Free Loss for Class-Imbalanced Deep Learning in Image Classification. IEEE Transactions on Neural Networks and Learning Systems, 2023, 34, 3234-3240.	7.2	16
2	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.	7.2	6
3	Fast AUC Maximization Learning Machine With Simultaneous Outlier Detection. IEEE Transactions on Cybernetics, 2023, 53, 6843-6857.	6.2	0
4	Fuzzy KNN Method With Adaptive Nearest Neighbors. IEEE Transactions on Cybernetics, 2022, 52, 5380-5393.	6.2	18
5	Fast Training of Adversarial Deep Fuzzy Classifier by Downsizing Fuzzy Rules With Gradient Guided Learning. IEEE Transactions on Fuzzy Systems, 2022, 30, 1967-1980.	6.5	6
6	Scale-adaptive super-feature based MetricUNet for brain tumor segmentation. Biomedical Signal Processing and Control, 2022, 73, 103442.	3.5	19
7	Easy Domain Adaptation for cross-subject multi-view emotion recognition. Knowledge-Based Systems, 2022, 239, 107982.	4.0	7
8	A Novel Multiple Feature-Based Engine Knock Detection System using Sparse Bayesian Extreme Learning Machine. Cognitive Computation, 2022, 14, 828-851.	3.6	12
9	Ground Plane Context Aggregation Network for Day-and-Night on Vehicular Pedestrian Detection. IEEE Transactions on Intelligent Transportation Systems, 2021, 22, 6395-6406.	4.7	8
10	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.	6.2	97
11	Multinomial Bayesian extreme learning machine for sparse and accurate classification model. Neurocomputing, 2021, 423, 24-33.	3.5	12
12	A Deep Forest-Based Fault Diagnosis Scheme for Electronics-Rich Analog Circuit Systems. IEEE Transactions on Industrial Electronics, 2021, 68, 10087-10096.	5.2	33
13	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.	2.2	30
14	Light-weight network for real-time adaptive stereo depth estimation. Neurocomputing, 2021, 441, 118-127.	3.5	17
15	An Inverse-Free and Scalable Sparse Bayesian Extreme Learning Machine for Classification Problems. IEEE Access, 2021, 9, 87543-87551.	2.6	1
16	Persistent Homology based Graph Convolution Network for Fine-grained 3D Shape Segmentation. , 2021, , .		3
17	Robust Online Multilabel Learning Under Dynamic Changes in Data Distribution With Labels. IEEE Transactions on Cybernetics, 2020, 50, 374-385.	6.2	19
18	Approximate empirical kernel map-based iterative extreme learning machine for clustering. Neural Computing and Applications, 2020, 32, 8031-8046.	3.2	1

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19	Adaptive neural tracking control for automotive engine idle speed regulation using extreme learning machine. Neural Computing and Applications, 2020, 32, 14399-14409.	3.2	8
20	Extreme semi-supervised learning for multiclass classification. Neurocomputing, 2020, 376, 103-118.	3.5	7
21	Homo-ELM: fully homomorphic extreme learning machine. International Journal of Machine Learning and Cybernetics, 2020, 11, 1531-1540.	2.3	7
22	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.	3.9	31
23	Novel up-scale feature aggregation for object detection in aerial images. Neurocomputing, 2020, 411, 364-374.	3.5	30
24	Efficient Outdoor Video Semantic Segmentation Using Feedback-Based Fully Convolution Neural Network. IEEE Transactions on Industrial Informatics, 2020, 16, 5128-5136.	7.2	10
25	Supervised Extreme Learning Machine-Based Auto-Encoder for Discriminative Feature Learning. IEEE Access, 2020, 8, 11700-11709.	2.6	10
26	Accurate and efficient sequential ensemble learning for highly imbalanced multi-class data. Neural Networks, 2020, 128, 268-278.	3.3	23
27	Efficient Outdoor 3D Point Cloud Semantic Segmentation for Critical Road Objects and Distributed Contexts. Lecture Notes in Computer Science, 2020, , 499-514.	1.0	4
28	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.	2.3	7
29	Scale adaptive image cropping for UAV object detection. Neurocomputing, 2019, 366, 305-313.	3.5	33
30	A Rotating Machinery Fault Diagnosis Method Based on Feature Learning of Thermal Images. IEEE Access, 2019, 7, 12348-12359.	2.6	73
31	An Enhanced Hierarchical Extreme Learning Machine with Random Sparse Matrix Based Autoencoder. , 2019, , .		8
32	Real-Time Response-Based Fault Analysis and Prognostics Techniques of Nonisolated DCâ€“DC Converters. IEEE Access, 2019, 7, 67996-68009.	2.6	11
33	3D2SeqViews: Aggregating Sequential Views for 3D Global Feature Learning by CNN With Hierarchical Attention Aggregation. IEEE Transactions on Image Processing, 2019, 28, 3986-3999.	6.0	105
34	SeqViews2SeqLabels: Learning 3D Global Features via Aggregating Sequential Views by RNN With Attention. IEEE Transactions on Image Processing, 2019, 28, 658-672.	6.0	148
35	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.	6.2	26
36	3DViewGraph: Learning Global Features for 3D Shapes from A Graph of Unordered Views with Attention. , 2019, , .		29

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37	A Patent Analysis of Prognostics and Health Management (PHM) Innovations for Electrical Systems. IEEE Access, 2018, 6, 18088-18107.	2.6	46
38	Efficient extreme learning machine via very sparse random projection. Soft Computing, 2018, 22, 3563-3574.	2.1	20
39	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.	6.0	37
40	Kernel-Based Multilayer Extreme Learning Machines for Representation Learning. IEEE Transactions on Neural Networks and Learning Systems, 2018, 29, 757-762.	7.2	141
41	Efficient point-by-point engine calibration using machine learning and sequential design of experiment strategies. Journal of the Franklin Institute, 2018, 355, 1517-1538.	1.9	12
42	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.	1.9	12
43	An improved feature extraction algorithm for automatic defect identification based on eddy current pulsed thermography. Mechanical Systems and Signal Processing, 2018, 113, 5-21.	4.4	27
44	Online extreme learning machine based modeling and optimization for point-by-point engine calibration. Neurocomputing, 2018, 277, 187-197.	3.5	23
45	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.	4.4	9
46	Intelligent monitoring, diagnosis and control in mechanical engineering. Advances in Mechanical Engineering, 2018, 10, 168781401881211.	0.8	0
47	Empirical kernel map-based multilayer extreme learning machines for representation learning. Neurocomputing, 2018, 310, 265-276.	3.5	27
48	Postboosting Using Extended G-Mean for Online Sequential Multiclass Imbalance Learning. IEEE Transactions on Neural Networks and Learning Systems, 2018, 29, 6163-6177.	7.2	24
49	Efficient shape classification using region descriptors. Multimedia Tools and Applications, 2017, 76, 83-102.	2.6	5
50	Encrypted image classification based on multilayer extreme learning machine. Multidimensional Systems and Signal Processing, 2017, 28, 851-865.	1.7	28
51	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.	1.1	9
52	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.	7.2	41
53	Self-evolving fuzzy model-based controller with online structure and parameter learning for hypersonic vehicle. Aerospace Science and Technology, 2017, 64, 1-15.	2.5	26
54	Extreme Learning Machine for Huge Hypotheses Re-ranking in Statistical Machine Translation. Cognitive Computation, 2017, 9, 285-294.	3.6	11

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55	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, .	0.9	9
56	Advances in extreme learning machines (ELM2015). Neurocomputing, 2017, 261, 1-3.	3.5	7
57	BoSCC: Bag of Spatial Context Correlations for Spatially Enhanced 3D Shape Representation. IEEE Transactions on Image Processing, 2017, 26, 3707-3720.	6.0	29
58	Capturing High-Discriminative Fault Features for Electronics-Rich Analog System via Deep Learning. IEEE Transactions on Industrial Informatics, 2017, 13, 1213-1226.	7.2	99
59	A novel meta-cognitive fuzzy-neural model with backstepping strategy for adaptive control of uncertain nonlinear systems. Neurocomputing, 2017, 230, 332-344.	3.5	19
60	Post-boosting of classification boundary for imbalanced data using geometric mean. Neural Networks, 2017, 96, 101-114.	3.3	16
61	Drug screening of cancer cell lines and human primary tumors using droplet microfluidics. Scientific Reports, 2017, 7, 9109.	1.6	69
62	Fast detection of impact location using kernel extreme learning machine. Neural Computing and Applications, 2016, 27, 121-130.	3.2	53
63	Model predictive engine air-ratio control using online sequential extreme learning machine. Neural Computing and Applications, 2016, 27, 79-92.	3.2	33
64	An Analytical Study on Reasoning of Extreme Learning Machine for Classification from Its Inductive Bias. Cognitive Computation, 2016, 8, 746-756.	3.6	7
65	Ensemble extreme learning machine and sparse representation classification. Journal of the Franklin Institute, 2016, 353, 4526-4541.	1.9	59
66	Unsupervised 3D Local Feature Learning by Circle Convolutional Restricted Boltzmann Machine. IEEE Transactions on Image Processing, 2016, 25, 5331-5344.	6.0	35
67	Online wavelet least-squares support vector machine fuzzy predictive control for engine lambda regulation. International Journal of Engine Research, 2016, 17, 866-885.	1.4	7
68	Adaptive control of rapidly time-varying discrete-time system using initial-training-free online extreme learning machine. Neurocomputing, 2016, 194, 117-125.	3.5	15
69	Sparse Bayesian extreme learning committee machine for engine simultaneous fault diagnosis. Neurocomputing, 2016, 174, 331-343.	3.5	63
70	Fault Tolerance Automotive Air-Ratio Control Using Extreme Learning Machine Model Predictive Controller. Mathematical Problems in Engineering, 2015, 2015, 1-10.	0.6	5
71	Local Receptive Fields Based Extreme Learning Machine. IEEE Computational Intelligence Magazine, 2015, 10, 18-29.	3.4	299
72	Fast and accurate face detection by sparse Bayesian extreme learning machine. Neural Computing and Applications, 2015, 26, 1149-1156.	3.2	20

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73	Imbalanced Learning for Air Pollution by Meta-Cognitive Online Sequential Extreme Learning Machine. Cognitive Computation, 2015, 7, 381-391.	3.6	21
74	Sparse Bayesian extreme learning machine and its application to biofuel engine performance prediction. Neurocomputing, 2015, 149, 397-404.	3.5	45
75	Modeling and optimization of biodiesel engine performance using kernel-based extreme learning machine and cuckoo search. Renewable Energy, 2015, 74, 640-647.	4.3	134
76	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.	0.6	17
77	Hybrid model predictive controller for engine air-ratio control. , 2014, , .		0
78	Variation-Oriented Data Filtering for Improvement in Model Complexity of Air Pollutant Prediction Model. Mathematical Problems in Engineering, 2014, 2014, 1-14.	0.6	1
79	Sparse Bayesian Extreme Learning Machine for Multi-classification. IEEE Transactions on Neural Networks and Learning Systems, 2014, 25, 836-843.	7.2	161
80	Predicting minority class for suspended particulate matters level by extreme learning machine. Neurocomputing, 2014, 128, 136-144.	3.5	51
81	Application of RFID technology and the maximum spanning tree algorithm for solving vehicle emissions in cities on Internet of Things. , 2014, , .		10
82	Real-time fault diagnosis for gas turbine generator systems using extreme learning machine. Neurocomputing, 2014, 128, 249-257.	3.5	128
83	Simultaneous-fault detection based on qualitative symptom descriptions for automotive engine diagnosis. Applied Soft Computing Journal, 2014, 22, 238-248.	4.1	28
84	Modelling of diesel engine performance using advanced machine learning methods under scarce and exponential data set. Applied Soft Computing Journal, 2013, 13, 4428-4441.	4.1	72
85	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.	5.2	61
86	Modeling and optimization of biodiesel engine performance using advanced machine learning methods. Energy, 2013, 55, 519-528.	4.5	104
87	Simultaneous-Fault Diagnosis of Automotive Engine Ignition Systems Using Prior Domain Knowledge and Relevance Vector Machine. Mathematical Problems in Engineering, 2013, 2013, 1-19.	0.6	12
88	Simultaneous-Fault Diagnosis of Gas Turbine Generator Systems Using a Pairwise-Coupled Probabilistic Classifier. Mathematical Problems in Engineering, 2013, 2013, 1-14.	0.6	19
89	Inspection and control of vehicle emissions through Internet of Things and traffic lights. , 2013, , .		8
90	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.	0.9	7

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91	Short-Term Prediction of Air Pollution in Macau Using Support Vector Machines. Journal of Control Science and Engineering, 2012, 2012, 1-11.	0.8	21
92	Model Predictive Engine Air-Ratio Control Using Online Sequential Relevance Vector Machine. Journal of Control Science and Engineering, 2012, 2012, 1-15.	0.8	9
93	Modelling and prediction of automotive engine airratio using relevance vector machine. , 2012, , .		4
94	Flexibility study on telemetric vehicle emission examination. International Journal of Satellite Communications Policy and Management, 2012, 1, 220.	0.0	0
95	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.	5.2	148
96	Preliminary Study on Telemetric Vehicle Emission Examination. Lecture Notes in Electrical Engineering, 2012, , 443-451.	0.3	0
97	Framework of vehicle emission inspection and control through RFID and traffic lights. , 2011, , .		14
98	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.	4.3	21
99	Case-Based Design for Hydraulic Power Circuit. Communications in Computer and Information Science, 2011, , 269-275.	0.4	1
100	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.	1.9	5
101	Case-based adaptation for automotive engine electronic control unit calibration. Expert Systems With Applications, 2010, 37, 3184-3194.	4.4	20
102	Modelling of Petrol Engine Power Using Incremental Least-Square Support Vector Machines for ECU Calibration. , 2010, , .		4
103	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
104	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.	4.3	125
105	Case-based reasoning and adaptation in hydraulic production machine design. Engineering Applications of Artificial Intelligence, 2002, 15, 567-585.	4.3	36