

# Yoan Miche

## List of Publications by Year in descending order

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Version: 2024-02-01

165  
papers

38,127  
citations

34016

52  
h-index

19136

118  
g-index

167  
all docs

167  
docs citations

167  
times ranked

15790  
citing authors

#	ARTICLE	IF	CITATIONS
1	Extreme learning machine: Theory and applications. <i>Neurocomputing</i> , 2006, 70, 489-501.	3.5	10,570
2	Extreme Learning Machine for Regression and Multiclass Classification. <i>IEEE Transactions on Systems, Man, and Cybernetics</i> , 2012, 42, 513-529.	5.5	4,557
3	Universal Approximation Using Incremental Constructive Feedforward Networks With Random Hidden Nodes. <i>IEEE Transactions on Neural Networks</i> , 2006, 17, 879-892.	4.8	2,219
4	A Fast and Accurate Online Sequential Learning Algorithm for Feedforward Networks. <i>IEEE Transactions on Neural Networks</i> , 2006, 17, 1411-1423.	4.8	1,753
5	Extreme learning machines: a survey. <i>International Journal of Machine Learning and Cybernetics</i> , 2011, 2, 107-122.	2.3	1,625
6	Trends in extreme learning machines: A review. <i>Neural Networks</i> , 2015, 61, 32-48.	3.3	1,454
7	Extreme learning machine: a new learning scheme of feedforward neural networks. , 0, , .		1,082
8	Convex incremental extreme learning machine. <i>Neurocomputing</i> , 2007, 70, 3056-3062.	3.5	1,012
9	An Insight into Extreme Learning Machines: Random Neurons, Random Features and Kernels. <i>Cognitive Computation</i> , 2014, 6, 376-390.	3.6	822
10	Enhanced random search based incremental extreme learning machine. <i>Neurocomputing</i> , 2008, 71, 3460-3468.	3.5	809
11	Optimization method based extreme learning machine for classification. <i>Neurocomputing</i> , 2010, 74, 155-163.	3.5	799
12	OP-ELM: Optimally Pruned Extreme Learning Machine. <i>IEEE Transactions on Neural Networks</i> , 2010, 21, 158-162.	4.8	657
13	Learning capability and storage capacity of two-hidden-layer feedforward networks. <i>IEEE Transactions on Neural Networks</i> , 2003, 14, 274-281.	4.8	641
14	A Generalized Growing and Pruning RBF (GGAP-RBF) Neural Network for Function Approximation. <i>IEEE Transactions on Neural Networks</i> , 2005, 16, 57-67.	4.8	584
15	Error Minimized Extreme Learning Machine With Growth of Hidden Nodes and Incremental Learning. <i>IEEE Transactions on Neural Networks</i> , 2009, 20, 1352-1357.	4.8	562
16	Upper bounds on the number of hidden neurons in feedforward networks with arbitrary bounded nonlinear activation functions. <i>IEEE Transactions on Neural Networks</i> , 1998, 9, 224-229.	4.8	432
17	What are Extreme Learning Machines? Filling the Gap Between Frank Rosenblatt's Dream and John von Neumann's Puzzle. <i>Cognitive Computation</i> , 2015, 7, 263-278.	3.6	386
18	Fully complex extreme learning machine. <i>Neurocomputing</i> , 2005, 68, 306-314.	3.5	368

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19	Compressed-Domain Ship Detection on Spaceborne Optical Image Using Deep Neural Network and Extreme Learning Machine. IEEE Transactions on Geoscience and Remote Sensing, 2015, 53, 1174-1185.	2.7	350
20	Extreme Learning Machines [Trends & Controversies]. IEEE Intelligent Systems, 2013, 28, 30-59.	4.0	329
21	An Efficient Sequential Learning Algorithm for Growing and Pruning RBF (GAP-RBF) Networks. IEEE Transactions on Systems, Man, and Cybernetics, 2004, 34, 2284-2292.	5.5	325
22	Voting based extreme learning machine. Information Sciences, 2012, 185, 66-77.	4.0	311
23	Online Sequential Fuzzy Extreme Learning Machine for Function Approximation and Classification Problems. IEEE Transactions on Systems, Man, and Cybernetics, 2009, 39, 1067-1072.	5.5	306
24	Ensemble of online sequential extreme learning machine. Neurocomputing, 2009, 72, 3391-3395.	3.5	302
25	Incremental extreme learning machine with fully complex hidden nodes. Neurocomputing, 2008, 71, 576-583.	3.5	283
26	High-Performance Extreme Learning Machines: A Complete Toolbox for Big Data Applications. IEEE Access, 2015, 3, 1011-1025.	2.6	283
27	TROP-ELM: A double-regularized ELM using LARS and Tikhonov regularization. Neurocomputing, 2011, 74, 2413-2421.	3.5	257
28	Self-Adaptive Evolutionary Extreme Learning Machine. Neural Processing Letters, 2012, 36, 285-305.	2.0	251
29	Can threshold networks be trained directly?. IEEE Transactions on Circuits and Systems Part 2: Express Briefs, 2006, 53, 187-191.	2.3	235
30	Exploiting AIS Data for Intelligent Maritime Navigation: A Comprehensive Survey From Data to Methodology. IEEE Transactions on Intelligent Transportation Systems, 2018, 19, 1559-1582.	4.7	232
31	Regularized extreme learning machine for regression with missing data. Neurocomputing, 2013, 102, 45-51.	3.5	211
32	Prototyping a Digital Twin for Real Time Remote Control Over Mobile Networks: Application of Remote Surgery. IEEE Access, 2019, 7, 20325-20336.	2.6	204
33	GPU-accelerated and parallelized ELM ensembles for large-scale regression. Neurocomputing, 2011, 74, 2430-2437.	3.5	194
34	Face recognition based on extreme learning machine. Neurocomputing, 2011, 74, 2541-2551.	3.5	191
35	Universal Approximation of Extreme Learning Machine With Adaptive Growth of Hidden Nodes. IEEE Transactions on Neural Networks and Learning Systems, 2012, 23, 365-371.	7.2	187
36	Real-Time Learning Capability of Neural Networks. IEEE Transactions on Neural Networks, 2006, 17, 863-878.	4.8	182

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37	Towards an intelligent framework for multimodal affective data analysis. <i>Neural Networks</i> , 2015, 63, 104-116.	3.3	173
38	Driver Distraction Detection Using Semi-Supervised Machine Learning. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2016, 17, 1108-1120.	4.7	167
39	Multiple kernel extreme learning machine. <i>Neurocomputing</i> , 2015, 149, 253-264.	3.5	157
40	Long-term time series prediction using OP-ELM. <i>Neural Networks</i> , 2014, 51, 50-56.	3.3	138
41	Constructive hidden nodes selection of extreme learning machine for regression. <i>Neurocomputing</i> , 2010, 73, 3191-3199.	3.5	120
42	Bankruptcy prediction using Extreme Learning Machine and financial expertise. <i>Neurocomputing</i> , 2014, 128, 296-302.	3.5	114
43	Extreme learning machine for missing data using multiple imputations. <i>Neurocomputing</i> , 2016, 174, 220-231.	3.5	90
44	Large-Scale Automated Sleep Staging. <i>Sleep</i> , 2017, 40, .	0.6	86
45	Extreme learning machine: RBF network case. , 0, , .		83
46	Extended sequential adaptive fuzzy inference system for classification problems. <i>Evolving Systems</i> , 2011, 2, 71-82.	2.4	77
47	A New Machine Learning Paradigm for Terrain Reconstruction. <i>IEEE Geoscience and Remote Sensing Letters</i> , 2006, 3, 382-386.	1.4	69
48	Feature selection for nonlinear models with extreme learning machines. <i>Neurocomputing</i> , 2013, 102, 111-124.	3.5	69
49	NMF-Based Image Quality Assessment Using Extreme Learning Machine. <i>IEEE Transactions on Cybernetics</i> , 2017, 47, 232-243.	6.2	68
50	Adaptive Ensemble Models of Extreme Learning Machines for Time Series Prediction. <i>Lecture Notes in Computer Science</i> , 2009, , 305-314.	1.0	63
51	Fast and Accurate Spatiotemporal Fusion Based Upon Extreme Learning Machine. <i>IEEE Geoscience and Remote Sensing Letters</i> , 2016, 13, 2039-2043.	1.4	62
52	Adaptive and online network intrusion detection system using clustering and Extreme Learning Machines. <i>Journal of the Franklin Institute</i> , 2018, 355, 1752-1779.	1.9	62
53	OP-ELM: Theory, Experiments and a Toolbox. <i>Lecture Notes in Computer Science</i> , 2008, , 145-154.	1.0	60
54	Using FCMC, FVS, and PCA Techniques for Feature Extraction of Multispectral Images. <i>IEEE Geoscience and Remote Sensing Letters</i> , 2005, 2, 108-112.	1.4	58

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55	Extreme learning machine towards dynamic model hypothesis in fish ethology research. Neurocomputing, 2014, 128, 273-284.	3.5	51
56	Minimal Learning Machine: A novel supervised distance-based approach for regression and classification. Neurocomputing, 2015, 164, 34-44.	3.5	51
57	An extreme learning machine approach for speaker recognition. Neural Computing and Applications, 2013, 22, 417-425.	3.2	48
58	Unsupervised feature selection based extreme learning machine for clustering. Neurocomputing, 2020, 386, 198-207.	3.5	48
59	Extreme learning machines for intrusion detection. , 2012, , .		47
60	Anomaly-Based Intrusion Detection Using Extreme Learning Machine and Aggregation of Network Traffic Statistics in Probability Space. Cognitive Computation, 2018, 10, 848-863.	3.6	44
61	Generating Word Embeddings from an Extreme Learning Machine for Sentiment Analysis and Sequence Labeling Tasks. Cognitive Computation, 2018, 10, 625-638.	3.6	42
62	Fast Modular Network Implementation for Support Vector Machines. IEEE Transactions on Neural Networks, 2005, 16, 1651-1663.	4.8	38
63	Extreme learning machine for multi-categories classification applications. , 2008, , .		36
64	Protein sequence classification using extreme learning machine. , 0, , .		35
65	Binary/ternary extreme learning machines. Neurocomputing, 2015, 149, 187-197.	3.5	35
66	Composite Function Wavelet Neural Networks with Differential Evolution and Extreme Learning Machine. Neural Processing Letters, 2011, 33, 251-265.	2.0	34
67	A Fast SVD-Hidden-nodes based Extreme Learning Machine for Large-Scale Data Analytics. Neural Networks, 2016, 77, 14-28.	3.3	34
68	A Feature Selection Methodology for Steganalysis. Lecture Notes in Computer Science, 2006, , 49-56.	1.0	33
69	Learning to Rank with Extreme Learning Machine. Neural Processing Letters, 2014, 39, 155-166.	2.0	32
70	A Two-Stage Methodology Using K-NN and False-Positive Minimizing ELM for Nominal Data Classification. Cognitive Computation, 2014, 6, 432-445.	3.6	32
71	Hierarchical Extreme Learning Machine for unsupervised representation learning. , 2015, , .		31
72	Learning Representations With Local and Global Geometries Preserved for Machine Fault Diagnosis. IEEE Transactions on Industrial Electronics, 2020, 67, 2360-2370.	5.2	31

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73	Ensemble delta test-extreme learning machine (DT-ELM) for regression. Neurocomputing, 2014, 129, 153-158.	3.5	30
74	Patient Outcome Prediction with Heart Rate Variability and Vital Signs. Journal of Signal Processing Systems, 2011, 64, 265-278.	1.4	28
75	Reply to "Comments on "The Extreme Learning Machine". IEEE Transactions on Neural Networks, 2008, 19, 1495-1496.	4.8	24
76	Advances in extreme learning machines (ELM2010). Neurocomputing, 2011, 74, 2411-2412.	3.5	22
77	Fast Face Recognition Via Sparse Coding and Extreme Learning Machine. Cognitive Computation, 2014, 6, 264.	3.6	21
78	Arbitrary Category Classification of Websites Based on Image Content. IEEE Computational Intelligence Magazine, 2015, 10, 30-41.	3.4	20
79	ELMVIS+: Fast nonlinear visualization technique based on cosine distance and extreme learning machines. Neurocomputing, 2016, 205, 247-263.	3.5	20
80	Brain MRI morphological patterns extraction tool based on Extreme Learning Machine and majority vote classification. Neurocomputing, 2016, 174, 344-351.	3.5	19
81	ELM embedded discriminative dictionary learning for image classification. Neural Networks, 2020, 123, 331-342.	3.3	19
82	Time series study of GGAP-RBF network: predictions of Nasdaq stock and nitrate contamination of drinking water. , 0, , .		18
83	OPELM and OPKNN in long-term prediction of time series using projected input data. Neurocomputing, 2010, 73, 1976-1986.	3.5	18
84	SOM-ELM"Self-Organized Clustering using ELM. Neurocomputing, 2015, 165, 238-254.	3.5	18
85	Performance Evaluation of GAP-RBF Network in Channel Equalization. Neural Processing Letters, 2005, 22, 223-233.	2.0	17
86	Extreme Learning Machine: A Robust Modeling Technique? Yes!. Lecture Notes in Computer Science, 2013, , 17-35.	1.0	17
87	Long-term prediction of time series using NNE-based projection and OP-ELM. , 2008, , .		16
88	Methodology for Behavioral-based Malware Analysis and Detection Using Random Projections and K-Nearest Neighbors Classifiers. , 2011, , .		16
89	A fast learning algorithm for multi-layer extreme learning machine. , 2014, , .		16
90	R-ELMNet: Regularized extreme learning machine network. Neural Networks, 2020, 130, 49-59.	3.3	16

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91	MD-ELM: Originally Mislabeled Samples Detection using OP-ELM Model. Neurocomputing, 2015, 159, 242-250.	3.5	13
92	Minimal Learning Machine: A New Distance-Based Method for Supervised Learning. Lecture Notes in Computer Science, 2013, , 408-416.	1.0	12
93	Efficient Parallel Feature Selection for Steganography Problems. Lecture Notes in Computer Science, 2009, , 1224-1231.	1.0	11
94	Reliable Steganalysis Using a Minimum Set of Samples and Features. Eurasip Journal on Information Security, 2009, 2009, 1-13.	2.2	11
95	Smile detection using Pair-wise Distance Vector and Extreme Learning Machine. , 2016, , .		11
96	Quantitative Analysis of Gas Phase IR Spectra Based on Extreme Learning Machine Regression Model. Sensors, 2019, 19, 5535.	2.1	11
97	General approximation theorem on feedforward networks. , 0, , .		10
98	Mahalanobis Ellipsoidal Learning Machine for One Class Classification. , 2007, , .		10
99	FUZZY EXTREME LEARNING MACHINE FOR A CLASS OF FUZZY INFERENCE SYSTEMS. International Journal of Uncertainty, Fuzziness and Knowledge-Based Systems, 2013, 21, 51-61.	0.9	10
100	Extreme Learning Machines for Multiclass Classification: Refining Predictions with Gaussian Mixture Models. Lecture Notes in Computer Science, 2015, , 153-164.	1.0	10
101	Investigation on driver stress utilizing ECG signals with on-board navigation systems in use. , 2016, , .		10
102	Singular Value Decomposition update and its application to (Inc)-OP-ELM. Neurocomputing, 2016, 174, 99-108.	3.5	10
103	ELM-SOM+: A continuous mapping for visualization. Neurocomputing, 2019, 365, 147-156.	3.5	10
104	A constructive enhancement for Online Sequential Extreme Learning Machine. , 2009, , .		9
105	Cluster Regularized Extreme Learning Machine for Detecting Mixed-Type Distraction in Driving. , 2015, , .		9
106	Security policies definition and enforcement utilizing policy control function framework in 5G. Computer Communications, 2021, 172, 226-237.	3.1	9
107	Advantages of Using Feature Selection Techniques on Steganalysis Schemes. , 2007, , 606-613.		8
108	Computation using mismatch: Neuromorphic extreme learning machines. , 2013, , .		8

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109	Learning Polychronous Neuronal Groups Using Joint Weight-Delay Spike-Timing-Dependent Plasticity. <i>Neural Computation</i> , 2016, 28, 2181-2212.	1.3	8
110	ELM-SOM: A Continuous Self-Organizing Map for Visualization. , 2018, , .		8
111	Content-Insensitive Blind Image Blurriness Assessment Using Weibull Statistics and Sparse Extreme Learning Machine. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , 2019, 49, 516-527.	5.9	8
112	Ordering of Self-Organizing Maps in Multidimensional Cases. <i>Neural Computation</i> , 1998, 10, 19-23.	1.3	7
113	Extreme Learning Machine based bacterial protein subcellular localization prediction. , 2008, , .		7
114	Credit risk evaluation with extreme learning machine. , 2012, , .		7
115	Two-stage structured learning approach for stable occupancy detection. , 2016, , .		7
116	Simultaneously learning affinity matrix and data representations for machine fault diagnosis. <i>Neural Networks</i> , 2020, 122, 395-406.	3.3	7
117	Robust Real-time Face Tracking for People Wearing Face Masks. , 2020, , .		7
118	Real-Time Illegal Parking Detection Algorithm in Urban Environments. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2022, 23, 20572-20587.	4.7	7
119	The Evolution of Networks and Management in a 6G World: An Inventorâ€™s View. <i>IEEE Transactions on Network and Service Management</i> , 2022, 19, 5395-5407.	3.2	7
120	Fuzzy Fault Tolerant Controller for Actuator Failures during Aircraft Autoland. , 2006, , .		5
121	Voting base online sequential extreme learning machine for multi-class classification. , 2013, , .		5
122	Adding reliability to ELM forecasts by confidence intervals. <i>Neurocomputing</i> , 2017, 219, 232-241.	3.5	5
123	Per-sample prediction intervals for extreme learning machines. <i>International Journal of Machine Learning and Cybernetics</i> , 2019, 10, 991-1001.	2.3	5
124	Unsupervised feature learning with sparse Bayesian auto-encoding based extreme learning machine. <i>International Journal of Machine Learning and Cybernetics</i> , 2020, 11, 1557-1569.	2.3	5
125	ELMVIS+: Improved Nonlinear Visualization Technique Using Cosine Distance and Extreme Learning Machines. <i>Proceedings in Adaptation, Learning and Optimization</i> , 2016, , 357-369.	1.5	5
126	Sparse Linear Combination of SOMs for Data Imputation: Application to Financial Database. <i>Lecture Notes in Computer Science</i> , 2009, , 290-297.	1.0	5



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127	Efficient joint model learning, segmentation and model updating for visual tracking. Neural Networks, 2022, 147, 175-185.	3.3	5
128	An efficient sequential RBF network for bio-medical classification problems. , 0, , .		4
129	Optimal Pruned K-Nearest Neighbors: OP-KNN Application to Financial Modeling. , 2008, , .		4
130	Introduction to the special issue on deep reinforcement learning:An editorial. Neural Networks, 2018, 107, 1-2.	3.3	4
131	Deformable Surface Registration with Extreme Learning Machines. Proceedings in Adaptation, Learning and Optimization, 2019, , 304-316.	1.5	4
132	Data Anonymization as a Vector Quantization Problem: Control Over Privacy for Health Data. Lecture Notes in Computer Science, 2016, , 193-203.	1.0	4
133	OP-KNN: Method and Applications. Advances in Artificial Neural Systems, 2010, 2010, 1-6.	1.0	3
134	Meme representations for game agents. World Wide Web, 2015, 18, 215-234.	2.7	3
135	Combined nonlinear visualization and classification: ELMVIS++C. , 2016, , .		3
136	Brute-force Missing Data Extreme Learning Machine for Predicting Huntington's Disease. , 2017, , .		3
137	A theoretical study of the relationship between an ELM network and its subnetworks. , 2017, , .		3
138	End-to-end novel visual categories learning via auxiliary self-supervision. Neural Networks, 2021, 139, 24-32.	3.3	3
139	Label propagation via local geometry preserving for deep semi-supervised image recognition. Neural Networks, 2021, 143, 303-313.	3.3	3
140	Learning Flow Characteristics Distributions with ELM for Distributed Denial of Service Detection and Mitigation. Proceedings in Adaptation, Learning and Optimization, 2018, , 129-143.	1.5	3
141	A fast constructive learning algorithm for single-hidden-layer neural networks. , 0, , .		2
142	Receding Horizon Cache and Extreme Learning Machine based Reinforcement Learning. , 2012, , .		2
143	A novel NMF-based image quality assessment metric using extreme learning machine. , 2013, , .		2
144	On the Development of a Metric for Quality of Information Content over Anonymised Data-Sets. , 2016, , .		2

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145	Data Driven Convolutional Sparse Coding for Visual Recognition. , 2018, , .		2
146	Mobile Subscriber Profile Data Privacy Breach via 4GDiameter Interconnection. Journal of ICT Standardization, 2018, 6, 245-262.	0.6	2
147	A Framework for Privacy Quantification: Measuring the Impact of Privacy Techniques Through Mutual Information, Distance Mapping, and Machine Learning. Cognitive Computation, 2019, 11, 241-261.	3.6	2
148	A Real-Time Learning Algorithm for Two-Hidden-Layer Feedforward Networks. , 2003, , .		1
149	Excerpts of research in brain sciences and neural networks in Singapore. , 0, , .		1
150	An Efficient Sequential RBF Network for Gene Expression-Based Multi-category classification. , 2005, , .		1
151	Extending the Minimal Learning Machine for Pattern Classification. , 2013, , .		1
152	Multifeature Extreme Ordinal Ranking Machine for Facial Age Estimation. Mathematical Problems in Engineering, 2015, 2015, 1-9.	0.6	1
153	Evaluating Confidence Intervals for ELM Predictions. Proceedings in Adaptation, Learning and Optimization, 2016, , 413-422.	1.5	1
154	Extreme Learning Machines for VISualization+R: Mastering Visualization with Target Variables. Cognitive Computation, 2018, 10, 464-477.	3.6	1
155	Practical Estimation of Mutual Information on Non-Euclidean Spaces. Lecture Notes in Computer Science, 2017, , 123-136.	1.0	1
156	Time constrain optimal method to find the minimum architectures for feedforward neural networks. , 0, , .		0
157	A fast modular implementation for neural networks. , 0, , .		0
158	Terrain Modeling Using Machine Learning Methods. , 2006, , .		0
159	Patient classification based on pre-hospital heart rate variability. , 2008, , .		0
160	Fast variable selection for memetracker phrases time series prediction. , 2012, , .		0
161	Deformable and Occluded Object Tracking via Graph Learning. , 2017, , .		0
162	Texture Recognition on Metal Surface using Order-Less Scale Invariant GLAC. , 2019, , .		0

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163	On Mutual Information over Non-Euclidean Spaces, Data Mining and Data Privacy Levels. Proceedings in Adaptation, Learning and Optimization, 2016, , 371-383.	1.5	0
164	On Distance Mapping from non-Euclidean Spaces to Euclidean Spaces. Lecture Notes in Computer Science, 2017, , 3-13.	1.0	0
165	Incremental ELMVIS for Unsupervised Learning. Proceedings in Adaptation, Learning and Optimization, 2018, , 183-193.	1.5	0