

# Yoan Miche

## List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

151  
papers

28,729  
citations

49  
h-index

167  
g-index

167  
ext. papers

34,115  
ext. citations

4.2  
avg, IF

7.68  
L-index

#	Paper	IF	Citations
151	Extreme learning machine: Theory and applications. <i>Neurocomputing</i> , <b>2006</b> , 70, 489-501	5.4	7695
150	Extreme learning machine for regression and multiclass classification. <i>IEEE Transactions on Systems, Man, and Cybernetics</i> , <b>2012</b> , 42, 513-29		3499
149	Universal approximation using incremental constructive feedforward networks with random hidden nodes. <i>IEEE Transactions on Neural Networks</i> , <b>2006</b> , 17, 879-92		1806
148	A fast and accurate online sequential learning algorithm for feedforward networks. <i>IEEE Transactions on Neural Networks</i> , <b>2006</b> , 17, 1411-23		1335
147	Extreme learning machines: a survey. <i>International Journal of Machine Learning and Cybernetics</i> , <b>2011</b> , 2, 107-122	3.8	1288
146	Trends in extreme learning machines: a review. <i>Neural Networks</i> , <b>2015</b> , 61, 32-48	9.1	1109
145	Convex incremental extreme learning machine. <i>Neurocomputing</i> , <b>2007</b> , 70, 3056-3062	5.4	848
144	Enhanced random search based incremental extreme learning machine. <i>Neurocomputing</i> , <b>2008</b> , 71, 3460-3468	5.4	679
143	An Insight into Extreme Learning Machines: Random Neurons, Random Features and Kernels. <i>Cognitive Computation</i> , <b>2014</b> , 6, 376-390	4.4	666
142	Optimization method based extreme learning machine for classification. <i>Neurocomputing</i> , <b>2010</b> , 74, 155-163	5.4	640
141	OP-ELM: optimally pruned extreme learning machine. <i>IEEE Transactions on Neural Networks</i> , <b>2010</b> , 21, 158-62		562
140	Error minimized extreme learning machine with growth of hidden nodes and incremental learning. <i>IEEE Transactions on Neural Networks</i> , <b>2009</b> , 20, 1352-7		472
139	Learning capability and storage capacity of two-hidden-layer feedforward networks. <i>IEEE Transactions on Neural Networks</i> , <b>2003</b> , 14, 274-81		470
138	Extreme learning machine: a new learning scheme of feedforward neural networks		459
137	A generalized growing and pruning RBF (GGAP-RBF) neural network for function approximation. <i>IEEE Transactions on Neural Networks</i> , <b>2005</b> , 16, 57-67		421
136	Upper bounds on the number of hidden neurons in feedforward networks with arbitrary bounded nonlinear activation functions. <i>IEEE Transactions on Neural Networks</i> , <b>1998</b> , 9, 224-9		340
135	What are Extreme Learning Machines? Filling the Gap Between Frank Rosenblatt's Dream and John von Neumann's Puzzle. <i>Cognitive Computation</i> , <b>2015</b> , 7, 263-278	4.4	327

134	Fully complex extreme learning machine. <i>Neurocomputing</i> , <b>2005</b> , 68, 306-314	5.4	302
133	Compressed-Domain Ship Detection on Spaceborne Optical Image Using Deep Neural Network and Extreme Learning Machine. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , <b>2015</b> , 53, 1174-1185	8.1	274
132	Online sequential fuzzy extreme learning machine for function approximation and classification problems. <i>IEEE Transactions on Systems, Man, and Cybernetics</i> , <b>2009</b> , 39, 1067-72		265
131	Ensemble of online sequential extreme learning machine. <i>Neurocomputing</i> , <b>2009</b> , 72, 3391-3395	5.4	252
130	Extreme Learning Machines [Trends & Controversies]. <i>IEEE Intelligent Systems</i> , <b>2013</b> , 28, 30-59	4.2	249
129	Voting based extreme learning machine. <i>Information Sciences</i> , <b>2012</b> , 185, 66-77	7.7	247
128	An efficient sequential learning algorithm for growing and pruning RBF (GAP-RBF) networks. <i>IEEE Transactions on Systems, Man, and Cybernetics</i> , <b>2004</b> , 34, 2284-92		247
127	Incremental extreme learning machine with fully complex hidden nodes. <i>Neurocomputing</i> , <b>2008</b> , 71, 576-583	5.4	230
126	Can threshold networks be trained directly?. <i>IEEE Transactions on Circuits and Systems Part 2: Express Briefs</i> , <b>2006</b> , 53, 187-191		201
125	. <i>IEEE Access</i> , <b>2015</b> , 3, 1011-1025	3.5	200
124	TROP-ELM: A double-regularized ELM using LARS and Tikhonov regularization. <i>Neurocomputing</i> , <b>2011</b> , 74, 2413-2421	5.4	197
123	Self-Adaptive Evolutionary Extreme Learning Machine. <i>Neural Processing Letters</i> , <b>2012</b> , 36, 285-305	2.4	192
122	Universal approximation of extreme learning machine with adaptive growth of hidden nodes. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , <b>2012</b> , 23, 365-71	10.3	157
121	Face recognition based on extreme learning machine. <i>Neurocomputing</i> , <b>2011</b> , 74, 2541-2551	5.4	153
120	GPU-accelerated and parallelized ELM ensembles for large-scale regression. <i>Neurocomputing</i> , <b>2011</b> , 74, 2430-2437	5.4	147
119	Regularized extreme learning machine for regression with missing data. <i>Neurocomputing</i> , <b>2013</b> , 102, 45-51	5.4	144
118	Real-time learning capability of neural networks. <i>IEEE Transactions on Neural Networks</i> , <b>2006</b> , 17, 863-78		142
117	Towards an intelligent framework for multimodal affective data analysis. <i>Neural Networks</i> , <b>2015</b> , 63, 104-16	9.1	127

116	Exploiting AIS Data for Intelligent Maritime Navigation: A Comprehensive Survey From Data to Methodology. <i>IEEE Transactions on Intelligent Transportation Systems</i> , <b>2018</b> , 19, 1559-1582	6.1	126
115	Multiple kernel extreme learning machine. <i>Neurocomputing</i> , <b>2015</b> , 149, 253-264	5.4	122
114	Driver Distraction Detection Using Semi-Supervised Machine Learning. <i>IEEE Transactions on Intelligent Transportation Systems</i> , <b>2016</b> , 17, 1108-1120	6.1	105
113	Constructive hidden nodes selection of extreme learning machine for regression. <i>Neurocomputing</i> , <b>2010</b> , 73, 3191-3199	5.4	103
112	Long-term time series prediction using OP-ELM. <i>Neural Networks</i> , <b>2014</b> , 51, 50-6	9.1	96
111	. <i>IEEE Access</i> , <b>2019</b> , 7, 20325-20336	3.5	95
110	Bankruptcy prediction using Extreme Learning Machine and financial expertise. <i>Neurocomputing</i> , <b>2014</b> , 128, 296-302	5.4	89
109	Extreme learning machine for missing data using multiple imputations. <i>Neurocomputing</i> , <b>2016</b> , 174, 220-231	3.1	69
108	Extended sequential adaptive fuzzy inference system for classification problems. <i>Evolving Systems</i> , <b>2011</b> , 2, 71-82	2.1	65
107	NMF-Based Image Quality Assessment Using Extreme Learning Machine. <i>IEEE Transactions on Cybernetics</i> , <b>2017</b> , 47, 232-243	10.2	61
106	Feature selection for nonlinear models with extreme learning machines. <i>Neurocomputing</i> , <b>2013</b> , 102, 111-124	5.4	58
105	Large-Scale Automated Sleep Staging. <i>Sleep</i> , <b>2017</b> , 40,	1.1	55
104	A new machine learning paradigm for terrain reconstruction. <i>IEEE Geoscience and Remote Sensing Letters</i> , <b>2006</b> , 3, 382-386	4.1	55
103	OP-ELM: Theory, Experiments and a Toolbox. <i>Lecture Notes in Computer Science</i> , <b>2008</b> , 145-154	0.9	50
102	Adaptive Ensemble Models of Extreme Learning Machines for Time Series Prediction. <i>Lecture Notes in Computer Science</i> , <b>2009</b> , 305-314	0.9	48
101	Using FCMC, FVS, and PCA techniques for feature extraction of multispectral images. <i>IEEE Geoscience and Remote Sensing Letters</i> , <b>2005</b> , 2, 108-112	4.1	48
100	Fast and Accurate Spatiotemporal Fusion Based Upon Extreme Learning Machine. <i>IEEE Geoscience and Remote Sensing Letters</i> , <b>2016</b> , 13, 2039-2043	4.1	46
99	Adaptive and online network intrusion detection system using clustering and Extreme Learning Machines. <i>Journal of the Franklin Institute</i> , <b>2018</b> , 355, 1752-1779	4	41

98	An extreme learning machine approach for speaker recognition. <i>Neural Computing and Applications</i> , <b>2013</b> , 22, 417-425	4.8	41
97	Extreme learning machine towards dynamic model hypothesis in fish ethology research. <i>Neurocomputing</i> , <b>2014</b> , 128, 273-284	5.4	40
96	Extreme learning machine: RBF network case		35
95	Minimal Learning Machine: A novel supervised distance-based approach for regression and classification. <i>Neurocomputing</i> , <b>2015</b> , 164, 34-44	5.4	33
94	Anomaly-Based Intrusion Detection Using Extreme Learning Machine and Aggregation of Network Traffic Statistics in Probability Space. <i>Cognitive Computation</i> , <b>2018</b> , 10, 848-863	4.4	32
93	Extreme learning machine for multi-categories classification applications <b>2008</b> ,		32
92	Ensemble delta test-extreme learning machine (DT-ELM) for regression. <i>Neurocomputing</i> , <b>2014</b> , 129, 153-158	5.4	30
91	Extreme learning machines for intrusion detection <b>2012</b> ,		30
90	Binary/ternary extreme learning machines. <i>Neurocomputing</i> , <b>2015</b> , 149, 187-197	5.4	28
89	Learning to Rank with Extreme Learning Machine. <i>Neural Processing Letters</i> , <b>2014</b> , 39, 155-166	2.4	28
88	Composite Function Wavelet Neural Networks with Differential Evolution and Extreme Learning Machine. <i>Neural Processing Letters</i> , <b>2011</b> , 33, 251-265	2.4	28
87	Fast modular network implementation for support vector machines. <i>IEEE Transactions on Neural Networks</i> , <b>2005</b> , 16, 1651-63		28
86	Generating Word Embeddings from an Extreme Learning Machine for Sentiment Analysis and Sequence Labeling Tasks. <i>Cognitive Computation</i> , <b>2018</b> , 10, 625-638	4.4	27
85	A Fast SVD-Hidden-nodes based Extreme Learning Machine for Large-Scale Data Analytics. <i>Neural Networks</i> , <b>2016</b> , 77, 14-28	9.1	27
84	Hierarchical Extreme Learning Machine for unsupervised representation learning <b>2015</b> ,		27
83	A Two-Stage Methodology Using K-NN and False-Positive Minimizing ELM for Nominal Data Classification. <i>Cognitive Computation</i> , <b>2014</b> , 6, 432-445	4.4	26
82	Patient Outcome Prediction with Heart Rate Variability and Vital Signs. <i>Journal of Signal Processing Systems</i> , <b>2011</b> , 64, 265-278	1.4	24
81	Learning Representations With Local and Global Geometries Preserved for Machine Fault Diagnosis. <i>IEEE Transactions on Industrial Electronics</i> , <b>2020</b> , 67, 2360-2370	8.9	22

80	Advances in extreme learning machines (ELM2010). <i>Neurocomputing</i> , <b>2011</b> , 74, 2411-2412	5.4	21
79	A Feature Selection Methodology for Steganalysis. <i>Lecture Notes in Computer Science</i> , <b>2006</b> , 49-56	0.9	20
78	Unsupervised feature selection based extreme learning machine for clustering. <i>Neurocomputing</i> , <b>2020</b> , 386, 198-207	5.4	20
77	Reply to "Comments on "The Extreme Learning Machine" <i>IEEE Transactions on Neural Networks</i> , <b>2008</b> , 19, 1495-1496		19
76	. <i>IEEE Computational Intelligence Magazine</i> , <b>2015</b> , 10, 30-41	5.6	18
75	SOM-ELM Self-Organized Clustering using ELM. <i>Neurocomputing</i> , <b>2015</b> , 165, 238-254	5.4	18
74	Brain MRI morphological patterns extraction tool based on Extreme Learning Machine and majority vote classification. <i>Neurocomputing</i> , <b>2016</b> , 174, 344-351	5.4	16
73	Extreme Learning Machine: A Robust Modeling Technique? Yes!. <i>Lecture Notes in Computer Science</i> , <b>2013</b> , 17-35	0.9	16
72	Protein sequence classification using extreme learning machine		16
71	ELMVIS+: Fast nonlinear visualization technique based on cosine distance and extreme learning machines. <i>Neurocomputing</i> , <b>2016</b> , 205, 247-263	5.4	16
70	Long-term prediction of time series using NNE-based projection and OP-ELM <b>2008</b> ,		15
69	Performance Evaluation of GAP-RBF Network in Channel Equalization. <i>Neural Processing Letters</i> , <b>2005</b> , 22, 223-233	2.4	14
68	OPELM and OPKNN in long-term prediction of time series using projected input data. <i>Neurocomputing</i> , <b>2010</b> , 73, 1976-1986	5.4	13
67	Fast Face Recognition Via Sparse Coding and Extreme Learning Machine. <i>Cognitive Computation</i> , <b>2013</b> , 6, 264	4.4	11
66	A fast learning algorithm for multi-layer extreme learning machine <b>2014</b> ,		11
65	Extreme Learning Machines for Multiclass Classification: Refining Predictions with Gaussian Mixture Models. <i>Lecture Notes in Computer Science</i> , <b>2015</b> , 153-164	0.9	10
64	MD-ELM: Originally Mislabeled Samples Detection using OP-ELM Model. <i>Neurocomputing</i> , <b>2015</b> , 159, 242-250	5.4	10
63	FUZZY EXTREME LEARNING MACHINE FOR A CLASS OF FUZZY INFERENCE SYSTEMS. <i>International Journal of Uncertainty, Fuzziness and Knowledge-Based Systems</i> , <b>2013</b> , 21, 51-61	0.8	9

62	Methodology for Behavioral-based Malware Analysis and Detection Using Random Projections and K-Nearest Neighbors Classifiers <b>2011</b> ,		9
61	Time series study of GGAP-RBF network: predictions of Nasdaq stock and nitrate contamination of drinking water		9
60	Smile detection using Pair-wise Distance Vector and Extreme Learning Machine <b>2016</b> ,		8
59	Computation using mismatch: Neuromorphic extreme learning machines <b>2013</b> ,		8
58	Minimal Learning Machine: A New Distance-Based Method for Supervised Learning. <i>Lecture Notes in Computer Science</i> , <b>2013</b> , 408-416	0.9	8
57	ELM embedded discriminative dictionary learning for image classification. <i>Neural Networks</i> , <b>2020</b> , 123, 331-342	9.1	8
56	Singular Value Decomposition update and its application to (Inc)-OP-ELM. <i>Neurocomputing</i> , <b>2016</b> , 174, 99-108	5.4	7
55	Cluster Regularized Extreme Learning Machine for Detecting Mixed-Type Distraction in Driving <b>2015</b> ,		7
54	Credit risk evaluation with extreme learning machine <b>2012</b> ,		7
53	Efficient Parallel Feature Selection for Steganography Problems. <i>Lecture Notes in Computer Science</i> , <b>2009</b> , 1224-1231	0.9	7
52	Mahalanobis Ellipsoidal Learning Machine for One Class Classification <b>2007</b> ,		7
51	Investigation on driver stress utilizing ECG signals with on-board navigation systems in use <b>2016</b> ,		7
50	Content-Insensitive Blind Image Blurriness Assessment Using Weibull Statistics and Sparse Extreme Learning Machine. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , <b>2019</b> , 49, 516-527	7.3	7
49	ELM-SOM: A Continuous Self-Organizing Map for Visualization <b>2018</b> ,		7
48	R-ELMNet: Regularized extreme learning machine network. <i>Neural Networks</i> , <b>2020</b> , 130, 49-59	9.1	6
47	Two-stage structured learning approach for stable occupancy detection <b>2016</b> ,		6
46	ELM-SOM+: A continuous mapping for visualization. <i>Neurocomputing</i> , <b>2019</b> , 365, 147-156	5.4	6
45	Reliable Steganalysis Using a Minimum Set of Samples and Features. <i>Eurasip Journal on Information Security</i> , <b>2009</b> , 2009, 1-13		6

44	Ordering of Self-Organizing Maps in Multidimensional Cases. <i>Neural Computation</i> , <b>1998</b> , 10, 19-23	2.9	6
43	Learning Polychronous Neuronal Groups Using Joint Weight-Delay Spike-Timing-Dependent Plasticity. <i>Neural Computation</i> , <b>2016</b> , 28, 2181-212	2.9	5
42	Adding reliability to ELM forecasts by confidence intervals. <i>Neurocomputing</i> , <b>2017</b> , 219, 232-241	5.4	5
41	ELMVIS+: Improved Nonlinear Visualization Technique Using Cosine Distance and Extreme Learning Machines. <i>Proceedings in Adaptation, Learning and Optimization</i> , <b>2016</b> , 357-369	0.2	5
40	Simultaneously learning affinity matrix and data representations for machine fault diagnosis. <i>Neural Networks</i> , <b>2020</b> , 122, 395-406	9.1	5
39	Security policies definition and enforcement utilizing policy control function framework in 5G. <i>Computer Communications</i> , <b>2021</b> , 172, 226-237	5.1	5
38	Quantitative Analysis of Gas Phase IR Spectra Based on Extreme Learning Machine Regression Model. <i>Sensors</i> , <b>2019</b> , 19,	3.8	5
37	Sparse Linear Combination of SOMs for Data Imputation: Application to Financial Database. <i>Lecture Notes in Computer Science</i> , <b>2009</b> , 290-297	0.9	4
36	Meme representations for game agents. <i>World Wide Web</i> , <b>2015</b> , 18, 215-234	2.9	3
35	OP-KNN: Method and Applications. <i>Advances in Artificial Neural Systems</i> , <b>2010</b> , 2010, 1-6		3
34	A constructive enhancement for Online Sequential Extreme Learning Machine <b>2009</b> ,		3
33	Optimal Pruned K-Nearest Neighbors: OP-KNN Application to Financial Modeling <b>2008</b> ,		3
32	Extreme Learning Machine based bacterial protein subcellular localization prediction <b>2008</b> ,		3
31	Deformable Surface Registration with Extreme Learning Machines. <i>Proceedings in Adaptation, Learning and Optimization</i> , <b>2019</b> , 304-316	0.2	3
30	Combined nonlinear visualization and classification: ELMVIS++C <b>2016</b> ,		3
29	Per-sample prediction intervals for extreme learning machines. <i>International Journal of Machine Learning and Cybernetics</i> , <b>2019</b> , 10, 991-1001	3.8	2
28	Receding Horizon Cache and Extreme Learning Machine based Reinforcement Learning <b>2012</b> ,		2
27	General approximation theorem on feedforward networks		2



26	Fuzzy Fault Tolerant Controller for Actuator Failures during Aircraft Autolanding <b>2006,</b>		2
25	Advantages of Using Feature Selection Techniques on Steganalysis Schemes <b>2007,</b> 606-613		2
24	An efficient sequential RBF network for bio-medical classification problems		2
23	Robust Real-time Face Tracking for People Wearing Face Masks <b>2020,</b>		2
22	Data Anonymization as a Vector Quantization Problem: Control Over Privacy for Health Data. <i>Lecture Notes in Computer Science, 2016,</i> 193-203	0.9	2
21	Learning Flow Characteristics Distributions with ELM for Distributed Denial of Service Detection and Mitigation. <i>Proceedings in Adaptation, Learning and Optimization, 2018,</i> 129-143	0.2	2
20	Unsupervised feature learning with sparse Bayesian auto-encoding based extreme learning machine. <i>International Journal of Machine Learning and Cybernetics, 2020,</i> 11, 1557-1569	3.8	2
19	Data Driven Convolutional Sparse Coding for Visual Recognition <b>2018,</b>		2
18	Mobile Subscriber Profile Data Privacy Breach via 4GDiameter Interconnection. <i>Journal of ICT Standardization, 2018,</i> 6, 245-262	1.6	2
17	Extreme Learning Machines for VISualization+R: Mastering Visualization with Target Variables. <i>Cognitive Computation, 2018,</i> 10, 464-477	4.4	1
16	Extending the Minimal Learning Machine for Pattern Classification <b>2013,</b>		1
15	Brute-force Missing Data Extreme Learning Machine for Predicting Huntington's Disease <b>2017,</b>		1
14	A theoretical study of the relationship between an ELM network and its subnetworks <b>2017,</b>		1
13	Voting base online sequential extreme learning machine for multi-class classification <b>2013,</b>		1
12	Excerpts of research in brain sciences and neural networks in Singapore		1
11	An Efficient Sequential RBF Network for Gene Expression-Based Multi-category classification <b>2005,</b>		1
10	Practical Estimation of Mutual Information on Non-Euclidean Spaces. <i>Lecture Notes in Computer Science, 2017,</i> 123-136	0.9	1
9	Evaluating Confidence Intervals for ELM Predictions. <i>Proceedings in Adaptation, Learning and Optimization, 2016,</i> 413-422	0.2	0

8	Multifeature Extreme Ordinal Ranking Machine for Facial Age Estimation. <i>Mathematical Problems in Engineering</i> , <b>2015</b> , 2015, 1-9	1.1	0
7	Efficient joint model learning, segmentation and model updating for visual tracking.. <i>Neural Networks</i> , <b>2022</b> , 147, 175-185	9.1	0
6	A Framework for Privacy Quantification: Measuring the Impact of Privacy Techniques Through Mutual Information, Distance Mapping, and Machine Learning. <i>Cognitive Computation</i> , <b>2019</b> , 11, 241-261 <sup>4.4</sup>	14.4	0
5	End-to-end novel visual categories learning via auxiliary self-supervision. <i>Neural Networks</i> , <b>2021</b> , 139, 24-32	9.1	0
4	Label propagation via local geometry preserving for deep semi-supervised image recognition. <i>Neural Networks</i> , <b>2021</b> , 143, 303-313	9.1	0
3	On Mutual Information over Non-Euclidean Spaces, Data Mining and Data Privacy Levels. <i>Proceedings in Adaptation, Learning and Optimization</i> , <b>2016</b> , 371-383	0.2	
2	On Distance Mapping from non-Euclidean Spaces to Euclidean Spaces. <i>Lecture Notes in Computer Science</i> , <b>2017</b> , 3-13	0.9	
1	Incremental ELMVIS for Unsupervised Learning. <i>Proceedings in Adaptation, Learning and Optimization</i> , <b>2018</b> , 183-193	0.2	