

Amaury Lendasse

List of Publications by Citations

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143
papers

3,760
citations

30
h-index

58
g-index

162
ext. papers

4,460
ext. citations

3.1
avg, IF

5.44
L-index

#	Paper	IF	Citations
143	OP-ELM: optimally pruned extreme learning machine. <i>IEEE Transactions on Neural Networks</i> , 2010 , 21, 158-62		562
142	Extreme Learning Machines [Trends & Controversies]. <i>IEEE Intelligent Systems</i> , 2013 , 28, 30-59	4.2	249
141	Methodology for long-term prediction of time series. <i>Neurocomputing</i> , 2007 , 70, 2861-2869	5.4	235
140	. <i>IEEE Access</i> , 2015 , 3, 1011-1025	3.5	200
139	TROP-ELM: A double-regularized ELM using LARS and Tikhonov regularization. <i>Neurocomputing</i> , 2011 , 74, 2413-2421	5.4	197
138	GPU-accelerated and parallelized ELM ensembles for large-scale regression. <i>Neurocomputing</i> , 2011 , 74, 2430-2437	5.4	147
137	Regularized extreme learning machine for regression with missing data. <i>Neurocomputing</i> , 2013 , 102, 45-51	5.4	144
136	Nonlinear projection with curvilinear distances: Isomap versus curvilinear distance analysis. <i>Neurocomputing</i> , 2004 , 57, 49-76	5.4	112
135	Long-term time series prediction using OP-ELM. <i>Neural Networks</i> , 2014 , 51, 50-6	9.1	96
134	Bankruptcy prediction using Extreme Learning Machine and financial expertise. <i>Neurocomputing</i> , 2014 , 128, 296-302	5.4	89
133	Extreme learning machine for missing data using multiple imputations. <i>Neurocomputing</i> , 2016 , 174, 220-231	5.4	69
132	Extreme learning machines for soybean classification in remote sensing hyperspectral images. <i>Neurocomputing</i> , 2014 , 128, 207-216	5.4	69
131	Feature selection for nonlinear models with extreme learning machines. <i>Neurocomputing</i> , 2013 , 102, 111-124	5.4	58
130	OP-ELM: Theory, Experiments and a Toolbox. <i>Lecture Notes in Computer Science</i> , 2008 , 145-154	0.9	50
129	Adaptive Ensemble Models of Extreme Learning Machines for Time Series Prediction. <i>Lecture Notes in Computer Science</i> , 2009 , 305-314	0.9	48
128	Forecasting electricity consumption using nonlinear projection and self-organizing maps. <i>Neurocomputing</i> , 2002 , 48, 299-311	5.4	44
127	Evolving fuzzy optimally pruned extreme learning machine for regression problems. <i>Evolving Systems</i> , 2010 , 1, 43-58	2.1	42

126	Adaptive and online network intrusion detection system using clustering and Extreme Learning Machines. <i>Journal of the Franklin Institute</i> , 2018 , 355, 1752-1779	4	41
125	Mixture of Gaussians for distance estimation with missing data. <i>Neurocomputing</i> , 2014 , 131, 32-42	5.4	41
124	Extreme learning machine towards dynamic model hypothesis in fish ethology research. <i>Neurocomputing</i> , 2014 , 128, 273-284	5.4	40
123	Time series forecasting: Obtaining long term trends with self-organizing maps. <i>Pattern Recognition Letters</i> , 2005 , 26, 1795-1808	4.7	40
122	X-SOM and L-SOM: A double classification approach for missing value imputation. <i>Neurocomputing</i> , 2010 , 73, 1103-1108	5.4	37
121	Model Selection with Cross-Validations and Bootstraps [Application to Time Series Prediction with RBFN Models. <i>Lecture Notes in Computer Science</i> , 2003 , 573-580	0.9	37
120	Minimal Learning Machine: A novel supervised distance-based approach for regression and classification. <i>Neurocomputing</i> , 2015 , 164, 34-44	5.4	33
119	Anomaly-Based Intrusion Detection Using Extreme Learning Machine and Aggregation of Network Traffic Statistics in Probability Space. <i>Cognitive Computation</i> , 2018 , 10, 848-863	4.4	32
118	Residual variance estimation using a nearest neighbor statistic. <i>Journal of Multivariate Analysis</i> , 2010 , 101, 811-823	1.4	31
117	Time series prediction competition: The CATS benchmark. <i>Neurocomputing</i> , 2007 , 70, 2325-2329	5.4	31
116	On Nonparametric Residual Variance Estimation. <i>Neural Processing Letters</i> , 2008 , 28, 155-167	2.4	31
115	Ensemble delta test-extreme learning machine (DT-ELM) for regression. <i>Neurocomputing</i> , 2014 , 129, 153-158	5.4	30
114	New method for instance or prototype selection using mutual information in time series prediction. <i>Neurocomputing</i> , 2010 , 73, 2030-2038	5.4	30
113	Minimising the delta test for variable selection in regression problems. <i>International Journal of High Performance Systems Architecture</i> , 2008 , 1, 269	0.9	30
112	Direct and Recursive Prediction of Time Series Using Mutual Information Selection. <i>Lecture Notes in Computer Science</i> , 2005 , 1010-1017	0.9	30
111	Distance estimation in numerical data sets with missing values. <i>Information Sciences</i> , 2013 , 240, 115-128	7.7	29
110	Autoregressive time series prediction by means of fuzzy inference systems using nonparametric residual variance estimation. <i>Fuzzy Sets and Systems</i> , 2010 , 161, 471-497	3.7	28
109	Non-parametric Residual Variance Estimation in Supervised Learning 2007 , 63-71		28

108	Generating Word Embeddings from an Extreme Learning Machine for Sentiment Analysis and Sequence Labeling Tasks. <i>Cognitive Computation</i> , 2018 , 10, 625-638	4.4	27
107	Gaussian derivative models and ensemble extreme learning machine for texture image classification. <i>Neurocomputing</i> , 2018 , 277, 53-64	5.4	27
106	A Two-Stage Methodology Using K-NN and False-Positive Minimizing ELM for Nominal Data Classification. <i>Cognitive Computation</i> , 2014 , 6, 432-445	4.4	26
105	Long-term prediction of time series by combining direct and MIMO strategies 2009 ,		25
104	Vector quantization: a weighted version for time-series forecasting. <i>Future Generation Computer Systems</i> , 2005 , 21, 1056-1067	7.5	25
103	Bounds on the mean power-weighted nearest neighbour distance. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2008 , 464, 2293-2301	2.4	24
102	Residual variance estimation in machine learning. <i>Neurocomputing</i> , 2009 , 72, 3692-3703	5.4	22
101	. <i>IEEE Computational Intelligence Magazine</i> , 2015 , 10, 30-41	5.6	18
100	SOM-ELM Self-Organized Clustering using ELM. <i>Neurocomputing</i> , 2015 , 165, 238-254	5.4	18
99	Parameter-free image segmentation with SLIC. <i>Neurocomputing</i> , 2018 , 277, 228-236	5.4	18
98	Discriminant document embeddings with an extreme learning machine for classifying clinical narratives. <i>Neurocomputing</i> , 2018 , 277, 129-138	5.4	18
97	3D object recognition based on a geometrical topology model and extreme learning machine. <i>Neural Computing and Applications</i> , 2013 , 22, 427-433	4.8	18
96	Manifold learning in local tangent space via extreme learning machine. <i>Neurocomputing</i> , 2016 , 174, 18-30	3.4	17
95	Brain MRI morphological patterns extraction tool based on Extreme Learning Machine and majority vote classification. <i>Neurocomputing</i> , 2016 , 174, 344-351	5.4	16
94	Extreme Learning Machine: A Robust Modeling Technique? Yes!. <i>Lecture Notes in Computer Science</i> , 2013 , 17-35	0.9	16
93	Climate-related challenges in long-term management of Söylä Pyhäjärvi (SW Finland). <i>Hydrobiologia</i> , 2011 , 660, 49-58	2.4	16
92	ELMVIS+: Fast nonlinear visualization technique based on cosine distance and extreme learning machines. <i>Neurocomputing</i> , 2016 , 205, 247-263	5.4	16
91	Fast Image Recognition Based on Independent Component Analysis and Extreme Learning Machine. <i>Cognitive Computation</i> , 2014 , 6, 405-422	4.4	15

90	Long-term prediction of time series using NNE-based projection and OP-ELM 2008 ,		15
89	LARSEN-ELM: Selective ensemble of extreme learning machines using LARS for blended data. <i>Neurocomputing</i> , 2015 , 149, 285-294	5.4	14
88	Fast bootstrap methodology for regression model selection. <i>Neurocomputing</i> , 2005 , 64, 161-181	5.4	14
87	An improved methodology for filling missing values in spatiotemporal climate data set. <i>Computational Geosciences</i> , 2010 , 14, 55-64	2.7	13
86	Dimension reduction of technical indicators for the prediction of financial time series - Application to the BEL20 Market Index. <i>European Journal of Economic and Social Systems</i> , 2001 , 15, 31-48		13
85	Double quantization of the regressor space for long-term time series prediction: method and proof of stability. <i>Neural Networks</i> , 2004 , 17, 1169-81	9.1	12
84	Fast Face Recognition Via Sparse Coding and Extreme Learning Machine. <i>Cognitive Computation</i> , 2013 , 6, 264	4.4	11
83	Extreme Learning Machines for Multiclass Classification: Refining Predictions with Gaussian Mixture Models. <i>Lecture Notes in Computer Science</i> , 2015 , 153-164	0.9	10
82	MD-ELM: Originally Mislabeled Samples Detection using OP-ELM Model. <i>Neurocomputing</i> , 2015 , 159, 242-250	5.4	10
81	Fast Feature Selection in a GPU Cluster Using the Delta Test. <i>Entropy</i> , 2014 , 16, 854-869	2.8	10
80	Embedded Online Fish Detection and Tracking System via YOLOv3 and Parallel Correlation Filter 2018 ,		10
79	Methodology for Behavioral-based Malware Analysis and Detection Using Random Projections and K-Nearest Neighbors Classifiers 2011 ,		9
78	Scikit-ELM: An Extreme Learning Machine Toolbox for Dynamic and Scalable Learning. <i>Proceedings in Adaptation, Learning and Optimization</i> , 2021 , 69-78	0.2	9
77	Minimal Learning Machine: A New Distance-Based Method for Supervised Learning. <i>Lecture Notes in Computer Science</i> , 2013 , 408-416	0.9	8
76	Underwater object detection with efficient shadow-removal for side scan sonar images 2016 ,		8
75	Singular Value Decomposition update and its application to (Inc)-OP-ELM. <i>Neurocomputing</i> , 2016 , 174, 99-108	5.4	7
74	Efficient Parallel Feature Selection for Steganography Problems. <i>Lecture Notes in Computer Science</i> , 2009 , 1224-1231	0.9	7
73	A boundary corrected expansion of the moments of nearest neighbor distributions. <i>Random Structures and Algorithms</i> , 2010 , 37, 223-247	0.8	7

72	A modified Lanczos Algorithm for fast regularization of extreme learning machines. <i>Neurocomputing</i> , 2020 , 414, 172-181	5.4	7
71	ELM-SOM: A Continuous Self-Organizing Map for Visualization 2018 ,		7
70	Comparison of combining methods using Extreme Learning Machines under small sample scenario. <i>Neurocomputing</i> , 2016 , 174, 4-17	5.4	6
69	ELM-SOM+: A continuous mapping for visualization. <i>Neurocomputing</i> , 2019 , 365, 147-156	5.4	6
68	Reliable Steganalysis Using a Minimum Set of Samples and Features. <i>Eurasip Journal on Information Security</i> , 2009 , 2009, 1-13		6
67	Wavelength selection using the measure of topological relevance on the self-organizing map. <i>Journal of Chemometrics</i> , 2008 , 22, 610-620	1.6	6
66	Extreme Learning Machines for Signature Verification. <i>Proceedings in Adaptation, Learning and Optimization</i> , 2021 , 31-40	0.2	6
65	Underwater 3D object reconstruction with multiple views in video stream via structure from motion 2016 ,		6
64	Local receptive fields based extreme learning machine with hybrid filter kernels for image classification. <i>Multidimensional Systems and Signal Processing</i> , 2019 , 30, 1149-1169	1.8	5
63	The delta test: The 1-NN estimator as a feature selection criterion 2014 ,		5
62	Adding reliability to ELM forecasts by confidence intervals. <i>Neurocomputing</i> , 2017 , 219, 232-241	5.4	5
61	Evolving fuzzy Optimally Pruned Extreme Learning Machine: A comparative analysis 2010 ,		5
60	A SOM-based approach to estimating product properties from spectroscopic measurements. <i>Neurocomputing</i> , 2009 , 73, 71-79	5.4	5
59	xftsp: A tool for time series prediction by means of fuzzy inference systems 2008 ,		5
58	Fuzzy inference based autoregressors for time series prediction using nonparametric residual variance estimation 2008 ,		5
57	ELMVIS+: Improved Nonlinear Visualization Technique Using Cosine Distance and Extreme Learning Machines. <i>Proceedings in Adaptation, Learning and Optimization</i> , 2016 , 357-369	0.2	5
56	Embedded spectral descriptors: learning the point-wise correspondence metric via Siamese neural networks. <i>Journal of Computational Design and Engineering</i> , 2020 , 7, 18-29	4.6	5
55	HSR: L 1/2-regularized sparse representation for fast face recognition using hierarchical feature selection. <i>Neural Computing and Applications</i> , 2016 , 27, 305-320	4.8	4

54	Local linear regression for soft-sensor design with application to an industrial deethanizer. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2011 , 44, 2839-2844		4
53	On the Curse of Dimensionality in Supervised Learning of Smooth Regression Functions. <i>Neural Processing Letters</i> , 2011 , 34, 133-154	2.4	4
52	On the statistical estimation of Rényi entropies 2009 ,		4
51	Website Classification from Webpage Renders. <i>Proceedings in Adaptation, Learning and Optimization</i> , 2021 , 41-50	0.2	4
50	Sparse Linear Combination of SOMs for Data Imputation: Application to Financial Database. <i>Lecture Notes in Computer Science</i> , 2009 , 290-297	0.9	4
49	A machine-learning-enhanced hierarchical multiscale method for bridging from molecular dynamics to continua. <i>Neural Computing and Applications</i> , 2020 , 32, 14359-14373	4.8	4
48	Meme representations for game agents. <i>World Wide Web</i> , 2015 , 18, 215-234	2.9	3
47	Adaptive kernel smoothing regression for spatio-temporal environmental datasets. <i>Neurocomputing</i> , 2012 , 90, 59-65	5.4	3
46	Underwater image segmentation with co-saliency detection and local statistical active contour model 2017 ,		3
45	Extreme Learning Machine on High Dimensional and Large Data Applications. <i>Mathematical Problems in Engineering</i> , 2015 , 2015, 1-2	1.1	3
44	OP-KNN: Method and Applications. <i>Advances in Artificial Neural Systems</i> , 2010 , 2010, 1-6		3
43	Gaussian basis functions for chemometrics. <i>Journal of Chemometrics</i> , 2008 , 22, 701-707	1.6	3
42	Deformable Surface Registration with Extreme Learning Machines. <i>Proceedings in Adaptation, Learning and Optimization</i> , 2019 , 304-316	0.2	3
41	Extending Extreme Learning Machine with Combination Layer. <i>Lecture Notes in Computer Science</i> , 2013 , 417-426	0.9	3
40	Feature Bagging and Extreme Learning Machines: Machine Learning with Severe Memory Constraints 2020 ,		3
39	Combined nonlinear visualization and classification: ELMVIS++C 2016 ,		3
38	A new application of machine learning in health care 2016 ,		3
37	Per-sample prediction intervals for extreme learning machines. <i>International Journal of Machine Learning and Cybernetics</i> , 2019 , 10, 991-1001	3.8	2

36	A depth estimation model from a single underwater image with non-uniform illumination correction 2017 ,		2
35	Time Series Prediction as a Problem of Missing Values: Application to ESTSP2007 and NN3 Competition Benchmarks. <i>Neural Networks (IJCNN), International Joint Conference on</i> , 2007 ,		2
34	State-of-the-Art and Evolution in Public Data Sets and Competitions for System Identification, Time Series Prediction and Pattern Recognition 2007 ,		2
33	ROS-ELM: A Robust Online Sequential Extreme Learning Machine for Big Data Analytics. <i>Proceedings in Adaptation, Learning and Optimization</i> , 2015 , 325-344	0.2	2
32	Learning Flow Characteristics Distributions with ELM for Distributed Denial of Service Detection and Mitigation. <i>Proceedings in Adaptation, Learning and Optimization</i> , 2018 , 129-143	0.2	2
31	A Novel ELM Ensemble for Time Series Prediction. <i>Proceedings in Adaptation, Learning and Optimization</i> , 2020 , 283-291	0.2	2
30	Extreme Learning Machines for VISualization+R: Mastering Visualization with Target Variables. <i>Cognitive Computation</i> , 2018 , 10, 464-477	4.4	1
29	Extending the Minimal Learning Machine for Pattern Classification 2013 ,		1
28	Brute-force Missing Data Extreme Learning Machine for Predicting Huntington's Disease 2017 ,		1
27	Underwater object tracking strategy via multi-scale retinex and partial least squares analysis 2017 ,		1
26	Variable selection for regression problems using Gaussian mixture models to estimate mutual information 2014 ,		1
25	Adaptive kernel smoothing regression using vector quantization 2011 ,		1
24	Delaunay Tessellation and Topological Regression: An Application to Estimating Product Properties from Spectroscopic Measurements. <i>Computer Aided Chemical Engineering</i> , 2009 , 27, 1179-1184	0.6	1
23	Variable Scaling for Time Series Prediction: Application to the ESTSP'07 and the NN3 Forecasting Competitions. <i>Neural Networks (IJCNN), International Joint Conference on</i> , 2007 ,		1
22	High-Performance ELM for Memory Constrained Edge Computing Devices with Metal Performance Shaders. <i>Proceedings in Adaptation, Learning and Optimization</i> , 2021 , 79-88	0.2	1
21	Extreme Learning Tree. <i>Proceedings in Adaptation, Learning and Optimization</i> , 2019 , 181-185	0.2	1
20	Distance Estimation for Incomplete Data by Extreme Learning Machine. <i>Proceedings in Adaptation, Learning and Optimization</i> , 2019 , 203-209	0.2	1
19	Probabilistic Methods for Multiclass Classification Problems. <i>Proceedings in Adaptation, Learning and Optimization</i> , 2016 , 385-397	0.2	1

18	Mutual Information Based Initialization of Forward-Backward Search for Feature Selection in Regression Problems. <i>Lecture Notes in Computer Science</i> , 2009 , 1-9	0.9	1
17	Solve Classification Tasks with Probabilities. Statistically-Modeled Outputs. <i>Lecture Notes in Computer Science</i> , 2017 , 293-305	0.9	1
16	RCGA-S/RCGA-SP Methods to Minimize the Delta Test for Regression Tasks. <i>Lecture Notes in Computer Science</i> , 2009 , 359-366	0.9	1
15	Underwater non-rigid 3D shape reconstruction via structure from motion for fish ethology research 2016 ,		1
14	Underwater image enhancement strategy with virtual retina model and image quality assessment 2016 ,		1
13	Evaluating Confidence Intervals for ELM Predictions. <i>Proceedings in Adaptation, Learning and Optimization</i> , 2016 , 413-422	0.2	0
12	Predicting Huntington's Disease: Extreme Learning Machine with Missing Values. <i>Proceedings in Adaptation, Learning and Optimization</i> , 2018 , 195-206	0.2	0
11	A Framework for Privacy Quantification: Measuring the Impact of Privacy Techniques Through Mutual Information, Distance Mapping, and Machine Learning. <i>Cognitive Computation</i> , 2019 , 11, 241-261 ^{4.4}		0
10	Using machine learning to identify top predictors for nurses' willingness to report medication errors. <i>Array</i> , 2020 , 8, 100049	4.7	
9	RMSE-ELM: Recursive Model Based Selective Ensemble of Extreme Learning Machines for Robustness Improvement. <i>Mathematical Problems in Engineering</i> , 2014 , 2014, 1-12	1.1	
8	A continuous regression function for the Delaunay calibration method. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2010 , 43, 194-199		
7	ELM Feature Selection and SOM Data Visualization for Nursing Survey Datasets. <i>Proceedings in Adaptation, Learning and Optimization</i> , 2021 , 99-108	0.2	
6	Investigating Feasibility of Active Learning with Image Content on Mobile Devices Using ELM. <i>Proceedings in Adaptation, Learning and Optimization</i> , 2021 , 134-140	0.2	
5	Validating Untrained Human Annotations Using Extreme Learning Machines. <i>Proceedings in Adaptation, Learning and Optimization</i> , 2021 , 89-98	0.2	
4	On Mutual Information over Non-Euclidean Spaces, Data Mining and Data Privacy Levels. <i>Proceedings in Adaptation, Learning and Optimization</i> , 2016 , 371-383	0.2	
3	On Distance Mapping from non-Euclidean Spaces to Euclidean Spaces. <i>Lecture Notes in Computer Science</i> , 2017 , 3-13	0.9	
2	Data Fusion Using OPELM for Low-Cost Sensors in AUV. <i>Proceedings in Adaptation, Learning and Optimization</i> , 2018 , 273-285	0.2	
1	Incremental ELMVIS for Unsupervised Learning. <i>Proceedings in Adaptation, Learning and Optimization</i> , 2018 , 183-193	0.2	

