

# CITATION REPORT

List of articles citing

## Semi-supervised and unsupervised extreme learning machines

DOI: 10.1109/tcyb.2014.2307349

IEEE Transactions on Cybernetics, 2014, 44, 2405-17.

**Source:** <https://exaly.com/paper-pdf/59562687/citation-report.pdf>

**Version:** 2024-04-24

This report has been generated based on the citations recorded by exaly.com for the above article. For the latest version of this publication list, visit the link given above.

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

#	Paper	IF	Citations
589	Modeling and Optimization for Piercing Efficiency and Energy Consumption Based on Mean Value Substaged KELM-PLS and GA Method. <b>2014</b> , 2014, 1-12		1
588	Robust extreme learning machine for regression problems with its application to wifi based indoor positioning system. <b>2014</b> ,		
587	An Insight into Extreme Learning Machines: Random Neurons, Random Features and Kernels. <b>2014</b> , 6, 376-390		666
586	Robust activation function and its application: Semi-supervised kernel extreme learning method. <i>Neurocomputing</i> , <b>2014</b> , 144, 318-328	5.4	29
585	Framework for combination aware AU intensity recognition. <b>2015</b> ,		2
584	Extreme learning machine based novelty detection for incremental semi-supervised learning. <b>2015</b> ,		6
583	Real-Time and Accurate Indoor Localization with Fusion Model of Wi-Fi Fingerprint and Motion Particle Filter. <b>2015</b> , 2015, 1-13		4
582	Spontaneous Up states in vitro: a single-metric index of the functional maturation and regional differentiation of the cerebral cortex. <b>2015</b> , 9, 59		12
581	Your Brain on Art: Emergent Cortical Dynamics During Aesthetic Experiences. <b>2015</b> , 9, 626		29
580	Distributed Learning over Massive XML Documents in ELM Feature Space. <b>2015</b> , 2015, 1-13		2
579	Modeling, Prediction, and Control of Heating Temperature for Tube Billet. <b>2015</b> , 2015, 1-10		2
578	Enhancement of ELM by Clustering Discrimination Manifold Regularization and Multiobjective FOA for Semisupervised Classification. <i>Computational Intelligence and Neuroscience</i> , <b>2015</b> , 2015, 731494	3	6
577	What are Extreme Learning Machines? Filling the Gap Between Frank Rosenblatt's Dream and John von Neumann's Puzzle. <b>2015</b> , 7, 263-278		327
576	Label transfer and propagation for domain adaptation. <b>2015</b> ,		
575	Cluster Regularized Extreme Learning Machine for Detecting Mixed-Type Distraction in Driving. <b>2015</b> ,		7
574	A Bayesian approach for extreme learning machine-based subspace learning. <b>2015</b> ,		0
573	On the Distributed Implementation of Unsupervised Extreme Learning Machines for Big Data. <b>2015</b> , 53, 167-174		4

572	Kernel fusion refinement for semi-supervised nonlinear dimension reduction. <b>2015</b> , 63, 16-22		2
571	Discriminative clustering via extreme learning machine. <i>Neural Networks</i> , <b>2015</b> , 70, 1-8	9.1	39
570	. <b>2015</b> , 10, 18-29		231
569	DropELM: Fast neural network regularization with Dropout and DropConnect. <i>Neurocomputing</i> , <b>2015</b> , 162, 57-66	5.4	28
568	SOM-ELM Self-Organized Clustering using ELM. <i>Neurocomputing</i> , <b>2015</b> , 165, 238-254	5.4	18
567	High-dimensional semi-supervised learning via a fusion-refinement procedure. <b>2015</b> , 114, 171-182		4
566	Approximate policy iteration with unsupervised feature learning based on manifold regularization. <b>2015</b> ,		2
565	Maximum margin semi-supervised learning with irrelevant data. <i>Neural Networks</i> , <b>2015</b> , 70, 90-102	9.1	6
564	Unsupervised neighborhood component analysis for clustering. <i>Neurocomputing</i> , <b>2015</b> , 168, 609-617	5.4	40
563	Domain Adaptation Extreme Learning Machines for Drift Compensation in E-Nose Systems. <i>IEEE Transactions on Instrumentation and Measurement</i> , <b>2015</b> , 64, 1790-1801	5.2	213
562	Trends in extreme learning machines: a review. <i>Neural Networks</i> , <b>2015</b> , 61, 32-48	9.1	1109
561	Semi-supervised extreme learning machine with wavelet kernel. <b>2016</b> , 1, 298		
560	Manifold regularization based approximate value iteration for learning control. <b>2016</b> ,		
559	Multi-view clustering with extreme learning machine. <i>Neurocomputing</i> , <b>2016</b> , 214, 483-494	5.4	28
558	Data analysis to predictive modeling of marine engine performance using machine learning. <b>2016</b> ,		2
557	Differential Evolution Based Selective Ensemble of Extreme Learning Machine. <b>2016</b> ,		2
556	GPU-based genome-wide SNP-SNP interactions detection and pancreatic cancer susceptibility analysis. <b>2016</b> ,		0
555	A review of approximate methods for kernel-based big media data analysis. <b>2016</b> ,		2

554	ELM variants comparison on applications of time series data forecasting. <b>2016,</b>			2
553	Harmonic extreme learning machine for data clustering. <b>2016,</b>			2
552	Less Annotation on Personalized Activity Recognition Using Context Data. <b>2016,</b>			11
551	Self-adaptive Extreme Learning Machine Optimized by Rough Set Theory and Affinity Propagation Clustering. <b>2016, 8, 720-728</b>			12
550	Dimension Reduction With Extreme Learning Machine. <b>2016, 25, 3906-18</b>			144
549	An Analytical Study on Reasoning of Extreme Learning Machine for Classification from Its Inductive Bias. <b>2016, 8, 746-756</b>			7
548	Hessian semi-supervised extreme learning machine. <i>Neurocomputing</i> , <b>2016, 207, 560-567</b>	5-4		13
547	Preliminary study on Wilcoxon-norm-based robust extreme learning machine. <i>Neurocomputing</i> , <b>2016, 198, 20-26</b>	5-4		4
546	ASELM: Adaptive semi-supervised ELM with application in question subjectivity identification. <i>Neurocomputing</i> , <b>2016, 207, 599-609</b>	5-4		10
545	Discriminative manifold extreme learning machine and applications to image and EEG signal classification. <i>Neurocomputing</i> , <b>2016, 174, 265-277</b>	5-4		34
544	Semi-supervised learning using multiple clusterings with limited labeled data. <i>Information Sciences</i> , <b>2016, 361-362, 48-65</b>	7-7		27
543	Estimating Evapotranspiration Using an Extreme Learning Machine Model: Case Study in North Bihar, India. <b>2016, 142, 04016032</b>			23
542	Extreme learning machine via free sparse transfer representation optimization. <b>2016, 8, 85-95</b>			7
541	Multi-category EEG signal classification developing time-frequency texture features based Fisher Vector encoding method. <i>Neurocomputing</i> , <b>2016, 218, 251-258</b>	5-4		37
540	Kernel fuzzy c-means clustering on energy detection based cooperative spectrum sensing. <b>2016, 2, 196-205</b>			21
539	Deep semi-supervised learning using Multi-Layered Extreme Learning Machines. <b>2016,</b>			
538	Semi Supervised Autoencoder. <i>Lecture Notes in Computer Science</i> , <b>2016, 82-89</b>	0.9		11
537	Robust Visual Knowledge Transfer via Extreme Learning Machine Based Domain Adaptation. <b>2016, 25, 4959-4973</b>			124

536	Anomaly detection in aviation data using extreme learning machines. <b>2016,</b>		15
535	Video anomaly detection based on ULGP-OF descriptor and one-class ELM. <b>2016,</b>		3
534	AAMI Based ECG Heart-Beat Time-Series Clustering Using Unsupervised ELM and Decision Rule. <b>2016,</b>		1
533	Correlation Based Extreme Learning Machine. <b>2016,</b>		1
532	Improving semi-supervised learning through optimum connectivity. <i>Pattern Recognition</i> , <b>2016</b> , 60, 72-85	7.7	31
531	Scalability in Pattern Mining. <b>2016</b> , 177-190		1
530	Volatility forecasting for interbank offered rate using grey extreme learning machine: The case of China. <b>2016</b> , 89, 249-254		9
529	FP-ELM: An online sequential learning algorithm for dealing with concept drift. <i>Neurocomputing</i> , <b>2016</b> , 207, 322-334	5.4	28
528	A semi-supervised online sequential extreme learning machine method. <i>Neurocomputing</i> , <b>2016</b> , 174, 168-178	5.4	26
527	Pattern Mining with Evolutionary Algorithms. <b>2016,</b>		40
526	. <b>2016</b> , 9, 3439-3451		50
525	SAR Image Change Detection Based on Correlation Kernel and Multistage Extreme Learning Machine. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , <b>2016</b> , 54, 5993-6006	8.1	19
524	Extreme Learning Machine for Multilayer Perceptron. <b>2016</b> , 27, 809-21		783
523	Computational intelligence in wave energy: Comprehensive review and case study. <b>2016</b> , 58, 1223-1246		48
522	SVM and ELM: Who Wins? Object Recognition with Deep Convolutional Features from ImageNet. <i>Proceedings in Adaptation, Learning and Optimization</i> , <b>2016</b> , 249-263	0.2	14
521	Local and Global Unsupervised Kernel Extreme Learning Machine and Its Application in Nonlinear Process Fault Detection. <i>Proceedings in Adaptation, Learning and Optimization</i> , <b>2016</b> , 65-75	0.2	1
520	Speeding-Up Association Rule Mining With Inverted Index Compression. <i>IEEE Transactions on Cybernetics</i> , <b>2016</b> , 46, 3059-3072	10.2	26
519	Semi-Supervised SVM With Extended Hidden Features. <i>IEEE Transactions on Cybernetics</i> , <b>2016</b> , 46, 2924-2937	10.37	21

518	Multilayer Extreme Learning Machine With Subnetwork Nodes for Representation Learning. <i>IEEE Transactions on Cybernetics</i> , <b>2016</b> , 46, 2570-2583	10.2	83
517	Cluster-Based Outlier Detection Using Unsupervised Extreme Learning Machines. <i>Proceedings in Adaptation, Learning and Optimization</i> , <b>2016</b> , 135-146	0.2	1
516	A review of Computational Intelligence techniques in coral reef-related applications. <b>2016</b> , 32, 107-123		9
515	Extreme Learning Machine With Subnetwork Hidden Nodes for Regression and Classification. <i>IEEE Transactions on Cybernetics</i> , <b>2016</b> , 46, 2885-2898	10.2	34
514	Driver Distraction Detection Using Semi-Supervised Machine Learning. <b>2016</b> , 17, 1108-1120		105
513	An Efficient High-Dimensional Big Data Storage Structure Based on US-ELM. <i>Proceedings in Adaptation, Learning and Optimization</i> , <b>2016</b> , 489-500	0.2	
512	The Distance-Based Representative Skyline Calculation Using Unsupervised Extreme Learning Machines. <i>Proceedings in Adaptation, Learning and Optimization</i> , <b>2016</b> , 107-119	0.2	
511	Constraint Co-Projections for Semi-Supervised Co-Clustering. <i>IEEE Transactions on Cybernetics</i> , <b>2016</b> , 46, 3047-3058	10.2	14
510	A fast training algorithm for extreme learning machine based on matrix decomposition. <i>Neurocomputing</i> , <b>2016</b> , 173, 1951-1958	5.4	7
509	Inductive bias for semi-supervised extreme learning machine. <i>Neurocomputing</i> , <b>2016</b> , 174, 154-167	5.4	7
508	Incremental extreme learning machine based on deep feature embedded. <b>2016</b> , 7, 111-120		41
507	An unsupervised discriminative extreme learning machine and its applications to data clustering. <i>Neurocomputing</i> , <b>2016</b> , 174, 250-264	5.4	25
506	Semi-Supervised Text Classification With Universum Learning. <i>IEEE Transactions on Cybernetics</i> , <b>2016</b> , 46, 462-73	10.2	50
505	Denoising Laplacian multi-layer extreme learning machine. <i>Neurocomputing</i> , <b>2016</b> , 171, 1066-1074	5.4	33
504	Robust Extreme Learning Machine With its Application to Indoor Positioning. <i>IEEE Transactions on Cybernetics</i> , <b>2016</b> , 46, 194-205	10.2	69
503	Extend semi-supervised ELM and a frame work. <b>2016</b> , 27, 205-213		4
502	Unsupervised extreme learning machine with representational features. <b>2017</b> , 8, 587-595		61
501	Unsupervised Feature Learning Classification With Radial Basis Function Extreme Learning Machine Using Graphic Processors. <i>IEEE Transactions on Cybernetics</i> , <b>2017</b> , 47, 224-231	10.2	18

500	Blind Domain Adaptation With Augmented Extreme Learning Machine Features. <i>IEEE Transactions on Cybernetics</i> , <b>2017</b> , 47, 651-660	10.2	43
499	A Semi-Supervised Method for Surveillance-Based Visual Location Recognition. <i>IEEE Transactions on Cybernetics</i> , <b>2017</b> , 47, 3719-3732	10.2	10
498	Remote sensing image classification using extreme learning machine-guided collaborative coding. <b>2017</b> , 28, 835-850		
497	NMR image segmentation based on Unsupervised Extreme Learning Machine. <b>2017</b> , 28, 1013-1030		3
496	Unsupervised extreme learning machine and support vector regression hybrid model for predicting energy commodity futures index. <b>2017</b> , 9, 333-346		15
495	Ensemble weighted extreme learning machine for imbalanced data classification based on differential evolution. <b>2017</b> , 28, 259-267		25
494	Highly Efficient Framework for Predicting Interactions Between Proteins. <i>IEEE Transactions on Cybernetics</i> , <b>2017</b> , 47, 731-743	10.2	85
493	Unsupervised and semi-supervised extreme learning machine with wavelet kernel for high dimensional data. <b>2017</b> , 9, 129-139		26
492	An Extreme Learning Machine Approach to Density Estimation Problems. <i>IEEE Transactions on Cybernetics</i> , <b>2017</b> , 47, 3254-3265	10.2	10
491	Online sequential ELM algorithm with forgetting factor for real applications. <i>Neurocomputing</i> , <b>2017</b> , 261, 144-152	5.4	26
490	On the construction of extreme learning machine for online and offline one-class classification: An expanded toolbox. <i>Neurocomputing</i> , <b>2017</b> , 261, 126-143	5.4	25
489	Deep object recognition across domains based on adaptive extreme learning machine. <i>Neurocomputing</i> , <b>2017</b> , 239, 194-203	5.4	38
488	HB-File: An efficient and effective high-dimensional big data storage structure based on US-ELM. <i>Neurocomputing</i> , <b>2017</b> , 261, 184-192	5.4	4
487	Very short-term reactive forecasting of the solar ultraviolet index using an extreme learning machine integrated with the solar zenith angle. <b>2017</b> , 155, 141-166		55
486	Universum Autoencoder-Based Domain Adaptation for Speech Emotion Recognition. <b>2017</b> , 24, 500-504		63
485	A parallel approximate SS-ELM algorithm based on MapReduce for large-scale datasets. <b>2017</b> , 108, 85-94		10
484	Class-specific cost regulation extreme learning machine for imbalanced classification. <i>Neurocomputing</i> , <b>2017</b> , 261, 70-82	5.4	76
483	Semisupervised Incremental Support Vector Machine Learning Based on Neighborhood Kernel Estimation. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , <b>2017</b> , 47, 2677-2687	7.3	17

482	Gaussian Mixture Model Using Semisupervised Learning for Probabilistic Fault Diagnosis Under New Data Categories. <i>IEEE Transactions on Instrumentation and Measurement</i> , <b>2017</b> , 66, 723-733	5.2	32
481	Discriminative extreme learning machine with supervised sparsity preserving for image classification. <i>Neurocomputing</i> , <b>2017</b> , 261, 242-252	5.4	59
480	Decay-weighted extreme learning machine for balance and optimization learning. <b>2017</b> , 28, 743-753		2
479	A Jacobian Matrix-Based Learning Machine and Its Applications in Medical Diagnosis. <i>IEEE Access</i> , <b>2017</b> , 5, 20036-20045	3.5	1
478	Online Performance Monitoring and Modeling Paradigm Based on Just-in-Time Learning and Extreme Learning Machine for a Non-Gaussian Chemical Process. <b>2017</b> , 56, 6671-6684		29
477	Common Subspace Learning via Cross-Domain Extreme Learning Machine. <b>2017</b> , 9, 555-563		17
476	Neuron Pruning-Based Discriminative Extreme Learning Machine for Pattern Classification. <b>2017</b> , 9, 581-595		32
475	Online Spatiotemporal Extreme Learning Machine for Complex Time-Varying Distributed Parameter Systems. <i>IEEE Transactions on Industrial Informatics</i> , <b>2017</b> , 13, 1753-1762	11.9	26
474	GPU-Accelerated Parallel Hierarchical Extreme Learning Machine on Flink for Big Data. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , <b>2017</b> , 47, 2740-2753	7.3	62
473	Twin extreme learning machines for pattern classification. <i>Neurocomputing</i> , <b>2017</b> , 260, 235-244	5.4	25
472	Blind modulation classification algorithm based on machine learning for spatially correlated MIMO system. <b>2017</b> , 11, 1000-1007		13
471	Orthogonal extreme learning machine for image classification. <i>Neurocomputing</i> , <b>2017</b> , 266, 458-464	5.4	20
470	MST-GEN: An Efficient Parameter Selection Method for One-Class Extreme Learning Machine. <i>IEEE Transactions on Cybernetics</i> , <b>2017</b> , 47, 3266-3279	10.2	7
469	An analytical method for diseases prediction using machine learning techniques. <b>2017</b> , 106, 212-223		86
468	Extreme Learning Machine and Its Applications in Big Data Processing. <b>2017</b> , 117-150		9
467	The selection of input weights of extreme learning machine: A sample structure preserving point of view. <i>Neurocomputing</i> , <b>2017</b> , 261, 28-36	5.4	13
466	Physical-Layer Authentication Based on Extreme Learning Machine. <b>2017</b> , 21, 1557-1560		58
465	Towards next-generation heterogeneous mobile data stream mining applications: Opportunities, challenges, and future research directions. <b>2017</b> , 79, 1-24		31



464	Hypercolumn-array based image representation and its application to shape-based object detection. <i>Applied Soft Computing Journal</i> , <b>2017</b> , 52, 333-347	7.5	2
463	Mental Workload Classification Based on Semi-Supervised Extreme Learning Machine. <i>Lecture Notes in Computer Science</i> , <b>2017</b> , 297-304	0.9	
462	Hybrid Feature Subset Selection Approach for Fuzzy-Extreme Learning Machine. <b>2017</b> , 1, 1		2
461	Adapting Remote Sensing to New Domain With ELM Parameter Transfer. <b>2017</b> , 14, 1618-1622		10
460	Hybrid particle swarm optimization and semi-supervised extreme learning machine for cellular network localization. <b>2017</b> , 13, 155014771771719		1
459	Hybrid Structure-Adaptive RBF-ELM Network Classifier. <i>IEEE Access</i> , <b>2017</b> , 5, 16539-16554	3.5	12
458	A theoretical study of the relationship between an ELM network and its subnetworks. <b>2017</b> ,		1
457	Extreme learning machine based transfer learning algorithms: A survey. <i>Neurocomputing</i> , <b>2017</b> , 267, 516-524	5.4	48
456	A novel target tracking method based on OSELM. <b>2017</b> , 28, 1091-1108		1
455	Semi-supervised Learning for Affective Common-Sense Reasoning. <b>2017</b> , 9, 18-42		14
454	Learning With Label Proportions via NPSVM. <i>IEEE Transactions on Cybernetics</i> , <b>2017</b> , 47, 3293-3305	10.2	8
453	H-MRST: A Novel Framework For Supporting Probability Degree Range Query Using Extreme Learning Machine. <b>2017</b> , 9, 68-80		10
452	Comparison of machine learning models for predicting fluoride contamination in groundwater. <b>2017</b> , 31, 2705-2718		52
451	One-Class Classification Based on Extreme Learning and Geometric Class Information. <b>2017</b> , 45, 577-592		18
450	RETRACTED: UFuzzy: Fuzzy Models with Universum. <i>Applied Soft Computing Journal</i> , <b>2017</b> , 52, 1296-1315	7.5	3
449	Detecting invasive species with a bio-inspired semi-supervised neurocomputing approach: the case of <i>Lagocephalus sceleratus</i> . <b>2017</b> , 28, 1225-1234		9
448	Evaluation of extreme learning machine for classification of individual and combined finger movements using electromyography on amputees and non-amputees. <i>Neural Networks</i> , <b>2017</b> , 85, 51-68	9.1	37
447	Summit-Training: A hybrid Semi-Supervised technique and its application to classification tasks. <i>Applied Soft Computing Journal</i> , <b>2017</b> , 50, 1-20	7.5	6

446	Effective pixel classification of Mars images based on ant colony optimization feature selection and extreme learning machine. <i>Neurocomputing</i> , <b>2017</b> , 226, 66-79	5-4	29
445	An Optimization Strategy for Weighted Extreme Learning Machine based on PSO. <b>2017</b> , 31, 1751001		10
444	A Hybrid Scheme for Fault Diagnosis with Partially Labeled Sets of Observations. <b>2017</b> ,		7
443	Network intrusion detection for cyber security using unsupervised deep learning approaches. <b>2017</b> ,		35
442	Online transfer learning with extreme learning machine. <b>2017</b> ,		1
441	Optimization of Stacked Unsupervised Extreme Learning Machine to improve classifier performance. <b>2017</b> ,		6
440	Enhance generalized learning vector quantization using unsupervised extreme learning machine and intelligent K-means clustering. <b>2017</b> ,		3
439	Improving the robustness of prediction model by transfer learning for interference suppression of electronic nose. <b>2017</b> , 1-1		15
438	Large-scale WiFi indoor localization via extreme learning machine. <b>2017</b> ,		10
437	Motor imagery signal classification using semi supervised and unsupervised extreme learning machines. <b>2017</b> ,		1
436	. <b>2017</b> ,		3
435	Improved short-term electricity load forecasting using extreme learning machines. <b>2017</b> ,		1
434	Multi-fault diagnosis for rolling bearing based on double parallel extreme learning machine & kurtosis spectral entropy. <b>2017</b> ,		
433	Scalable Graph-Based Semi-Supervised Learning through Sparse Bayesian Model. <b>2017</b> , 29, 2758-2771		31
432	A Comparison Study of Machine Learning Based Algorithms for Fatigue Crack Growth Calculation. <b>2017</b> , 10,		25
431	Intelligent RFID Indoor Localization System Using a Gaussian Filtering Based Extreme Learning Machine. <i>Symmetry</i> , <b>2017</b> , 9, 30	2-7	9
430	Urban Traffic Congestion Evaluation Based on Kernel the Semi-Supervised Extreme Learning Machine. <i>Symmetry</i> , <b>2017</b> , 9, 70	2-7	9
429	A Distributed Algorithm for the Cluster-Based Outlier Detection Using Unsupervised Extreme Learning Machines. <b>2017</b> , 2017, 1-12		0

428	. <i>IEEE Access</i> , <b>2018</b> , 6, 16176-16188	3.5	11
427	Mining Context-Aware Association Rules Using Grammar-Based Genetic Programming. <i>IEEE Transactions on Cybernetics</i> , <b>2018</b> , 48, 3030-3044	10.2	18
426	A Joint Unsupervised Cross-Domain Model via Scalable Discriminative Extreme Learning Machine. <b>2018</b> , 10, 577-590		5
425	Online Game Bot Detection Based on Extreme Learning Machine. <i>Lecture Notes in Computer Science</i> , <b>2018</b> , 155-165	0.9	
424	Online semi-supervised support vector machine. <i>Information Sciences</i> , <b>2018</b> , 439-440, 125-141	7.7	14
423	Computational Deep Intelligence Vision Sensing for Nutrient Content Estimation in Agricultural Automation. <b>2018</b> , 15, 1243-1257		25
422	Network intrusion detection using equality constrained-optimization-based extreme learning machines. <b>2018</b> , 147, 68-80		28
421	An Extended Reinforcement Learning Framework to Model Cognitive Development With Enactive Pattern Representation. <b>2018</b> , 10, 738-750		7
420	An adaptive graph learning method based on dual data representations for clustering. <i>Pattern Recognition</i> , <b>2018</b> , 77, 126-139	7.7	18
419	Integration of weighted LS-SVM and manifold learning for fuzzy modeling. <i>Neurocomputing</i> , <b>2018</b> , 282, 184-191	5.4	6
418	Dropout training for SVMs with data augmentation. <b>2018</b> , 12, 694-713		4
417	. <b>2018</b> ,		6
416	Representative Skyline Queries With Total and Partial Order Domains Using US-ELM. <i>IEEE Access</i> , <b>2018</b> , 6, 10410-10420	3.5	
415	Learner support in MOOCs: Identifying variables linked to completion. <b>2018</b> , 122, 153-168		44
414	Semisupervised Negative Correlation Learning. <b>2018</b> , 29, 5366-5379		5
413	Information discriminative extreme learning machine. <b>2018</b> , 22, 677-689		10
412	WoCE: A framework for Clustering Ensemble by Exploiting the Wisdom of Crowds Theory. <i>IEEE Transactions on Cybernetics</i> , <b>2018</b> , 48, 486-499	10.2	20
411	A Parallel Multiclassification Algorithm for Big Data Using an Extreme Learning Machine. <b>2018</b> , 29, 2337-2351		91

410	Manifold Regularized Reinforcement Learning. <b>2018</b> , 29, 932-943		15
409	Progressive Semisupervised Learning of Multiple Classifiers. <i>IEEE Transactions on Cybernetics</i> , <b>2018</b> , 48, 689-702	10.2	30
408	A robust density peaks clustering algorithm using fuzzy neighborhood. <b>2018</b> , 9, 1131-1140		36
407	Detecting users' anomalous emotion using social media for business intelligence. <b>2018</b> , 25, 193-200		20
406	Local kernel alignment based multi-view clustering using extreme learning machine. <i>Neurocomputing</i> , <b>2018</b> , 275, 1099-1111	5-4	13
405	A hybrid intelligent system for the prediction of Parkinson's Disease progression using machine learning techniques. <b>2018</b> , 38, 1-15		64
404	Semi-supervised multi-graph classification using optimal feature selection and extreme learning machine. <i>Neurocomputing</i> , <b>2018</b> , 277, 89-100	5-4	8
403	A review on neural networks with random weights. <i>Neurocomputing</i> , <b>2018</b> , 275, 278-287	5-4	220
402	On the application of reservoir computing networks for noisy image recognition. <i>Neurocomputing</i> , <b>2018</b> , 277, 237-248	5-4	33
401	Extreme Learning Machine for Joint Embedding and Clustering. <i>Neurocomputing</i> , <b>2018</b> , 277, 78-88	5-4	23
400	Probabilistic Regularized Extreme Learning Machine for Robust Modeling of Noise Data. <i>IEEE Transactions on Cybernetics</i> , <b>2018</b> , 48, 2368-2377	10.2	15
399	A weighted accent classification using multiple words. <i>Neurocomputing</i> , <b>2018</b> , 277, 120-128	5-4	4
398	Adaboost-LLP: A Boosting Method for Learning With Label Proportions. <b>2018</b> , 29, 3548-3559		17
397	Deep Learning of Semisupervised Process Data With Hierarchical Extreme Learning Machine and Soft Sensor Application. <b>2018</b> , 65, 1490-1498		154
396	BELMKN: Bayesian Extreme Learning Machines Kohonen Network. <b>2018</b> , 11, 56		4
395	EObjCount: An Evolving Spectral and Spatial Approach for Tree Count using Multispectral Satellite Images. <b>2018</b> ,		
394	Network Traffic Classification Based on AR-ELM Algorithm*. <b>2018</b> ,		
393	Canonical ELM: Improving the Performance of Extreme Learning Machines on Multivariate Regression Tasks Using Canonical Correlations. <b>2018</b> ,		

392	Semi-Supervised Online Elastic Extreme Learning Machine for Data Classification. <b>2018,</b>	1
391	Modeling of Piercing Based on DEFORM-3D and the Ensemble OSC-PLS-ELM Method. <i>IEEE Access,</i> <b>2018,</b> 6, 63537-63545	3-5
390	. <b>2018,</b>	
389	A Novel Sparse Extreme Learning Machine based Classifier. <b>2018,</b>	
388	PET Viscosity Prediction Using JIT-based Extreme Learning Machine. <i>IFAC-PapersOnLine,</i> <b>2018,</b> 51, 608-613	4
387	Object Tracking Method Based on Semi Supervised Extreme Learning. <b>2018,</b>	
386	Adaptive Detection Method for Organic Contamination Events in Water Distribution Systems Using the UV-Vis Spectrum Based on Semi-Supervised Learning. <b>2018,</b> 10, 1566	3
385	Multimodal student attendance management system (MSAMS). <b>2018,</b> 9, 2917-2929	5
384	Two-stage Unsupervised Multiple Kernel Extreme Learning Machine. <b>2018,</b>	0
383	Improving Principal Component Analysis Performance for Reducing Spectral Dimension in Hyperspectral Image Classification. <b>2018,</b>	1
382	Physical Layer Authentication Enhancement Using a Gaussian Mixture Model. <i>IEEE Access,</i> <b>2018,</b> 6, 53583-53592	8
381	Eshopping Scam Identification using Machine Learning. <b>2018,</b>	12
380	LerGAN: A Zero-Free, Low Data Movement and PIM-Based GAN Architecture. <b>2018,</b>	13
379	Review and big data perspectives on robust data mining approaches for industrial process modeling with outliers and missing data. <b>2018,</b> 46, 107-133	121
378	Safe Semi-Supervised Extreme Learning Machine for EEG Signal Classification. <i>IEEE Access,</i> <b>2018,</b> 6, 49399-49407	2
377	Parameter Transfer Extreme Learning Machine based on Projective Model. <b>2018,</b>	7
376	Discriminative Pixel-Pairwise Constraint-Guided Extreme Learning Machine for Semi-Supervised Hyperspectral Image Classification. <b>2018,</b>	
375	An Auto-Adjustable Semi-Supervised Self-Training Algorithm. <b>2018,</b> 11, 139	9

374	A Self-Supervised Learning Method for Shadow Detection in Remote Sensing Imagery. <b>2018</b> , 9, 1		2
373	Electronic Nose: Algorithmic Challenges. <b>2018</b> ,		7
372	Parallel one-class extreme learning machine for imbalance learning based on Bayesian approach. <b>2018</b> , 1		12
371	A positive and unlabeled learning framework based on extreme learning machine for drug-drug interactions discovery. <b>2018</b> , 1		9
370	Optimum, projected, and regularized extreme learning machine methods with singular value decomposition and L 2 -Tikhonov regularization. <b>2018</b> , 26, 1685-1697		
369	Domain Adaptation Guided Drift Compensation. <b>2018</b> , 147-171		1
368	Learning EEG synchronization patterns for epileptic seizure prediction using bag-of-wave features. <b>2018</b> , 1		15
367	DMP-ELMs: Data and model parallel extreme learning machines for large-scale learning tasks. <i>Neurocomputing</i> , <b>2018</b> , 320, 85-97	5.4	10
366	Residual compensation extreme learning machine for regression. <i>Neurocomputing</i> , <b>2018</b> , 311, 126-136	5.4	43
365	Domain Invariant and Class Discriminative Feature Learning for Visual Domain Adaptation. <b>2018</b> , 27, 4260-4273		100
364	Improved lung nodule diagnosis accuracy using lung CT images with uncertain class. <b>2018</b> , 162, 197-209		21
363	Community detection in complex networks using deep auto-encoded extreme learning machine. <b>2018</b> , 32, 1850180		6
362	Approximate linear dependence criteria with active learning for smart soft sensor design. <b>2018</b> , 180, 88-95		8
361	Dissolved Gas Analysis Principle-Based Intelligent Approaches to Fault Diagnosis and Decision Making for Large Oil-Immersed Power Transformers: A Survey. <b>2018</b> , 11, 913		34
360	Robust semi-supervised extreme learning machine. <b>2018</b> , 159, 203-220		20
359	GSOS-ELM: An RFID-Based Indoor Localization System Using GSO Method and Semi-Supervised Online Sequential ELM. <i>Sensors</i> , <b>2018</b> , 18,	3.8	9
358	Vision-Based Defect Detection for Mobile Phone Cover Glass using Deep Neural Networks. <b>2018</b> , 19, 801-810		25
357	Spoken language identification based on the enhanced self-adjusting extreme learning machine approach. <b>2018</b> , 13, e0194770		17

356	A fast and efficient conformal regressor with regularized extreme learning machine. <i>Neurocomputing</i> , <b>2018</b> , 304, 1-11	5.4	9
355	Conditional Random Mapping for Effective ELM Feature Representation. <b>2018</b> , 10, 827-847		6
354	A socially responsible consumption index based on non-linear dimensionality reduction and global sensitivity analysis. <i>Applied Soft Computing Journal</i> , <b>2018</b> , 69, 599-609	7.5	8
353	Self-adaptive differential evolutionary extreme learning machines for long-term solar radiation prediction with remotely-sensed MODIS satellite and Reanalysis atmospheric products in solar-rich cities. <b>2018</b> , 212, 176-198		51
352	Distributed online semi-supervised support vector machine. <i>Information Sciences</i> , <b>2018</b> , 466, 236-257	7.7	20
351	Laplacian twin extreme learning machine for semi-supervised classification. <i>Neurocomputing</i> , <b>2018</b> , 321, 17-27	5.4	19
350	An Extreme Learning Machine-Based Community Detection Algorithm in Complex Networks. <b>2018</b> , 2018, 1-10		4
349	Fast dimensionality reduction and classification of hyperspectral images with extreme learning machines. <b>2018</b> , 15, 439-462		24
348	Blind equalization of QAM signals via extreme learning machine. <b>2018</b> ,		2
347	VPSO-Based CCR-ELM for Imbalanced Classification. <i>Lecture Notes in Computer Science</i> , <b>2018</b> , 361-369	0.9	
346	Optimizing Extreme Learning Machine via Generalized Hebbian Learning and Intrinsic Plasticity Learning. <b>2019</b> , 49, 1593-1609		2
345	A hierarchical semi-supervised extreme learning machine method for EEG recognition. <b>2019</b> , 57, 147-157		30
344	Segmentation of Sidescan Sonar Imagery Using Markov Random Fields and Extreme Learning Machine. <b>2019</b> , 44, 502-513		10
343	Multiview, Few-Labeled Object Categorization by Predicting Labels With View Consistency. <i>IEEE Transactions on Cybernetics</i> , <b>2019</b> , 49, 3834-3843	10.2	10
342	Neural-Response-Based Extreme Learning Machine for Image Classification. <b>2019</b> , 30, 539-552		11
341	. <i>IEEE Transactions on Industrial Informatics</i> , <b>2019</b> , 15, 1277-1286	11.9	52
340	A unified distributed ELM framework with supervised, semi-supervised and unsupervised big data learning. <b>2019</b> , 11, 305-315		2
339	Active Learning with Spatial Distribution based Semi-Supervised Extreme Learning Machine for Multiclass Classification. <b>2019</b> ,		

338	Semi-supervised learning with convolutional neural networks for UAV images automatic recognition. <b>2019</b> , 164, 104932		18
337	Semi-supervised learning with connectivity-driven convolutional neural networks. <b>2019</b> , 128, 16-22		3
336	Globality-Locality Preserving Maximum Variance Extreme Learning Machine. <b>2019</b> , 2019, 1-18		2
335	Nonlinear industrial soft sensor development based on semi-supervised probabilistic mixture of extreme learning machines. <b>2019</b> , 91, 104098		25
334	Static Hand Gesture Recognition for Human Robot Interaction. <i>Lecture Notes in Computer Science</i> , <b>2019</b> , 417-430	0.9	1
333	A Survey of Machine Learning Applications for Power System Analytics. <b>2019</b> ,		8
332	Adaptive Safe Semi-Supervised Extreme Machine Learning. <i>IEEE Access</i> , <b>2019</b> , 7, 76176-76184	3.5	8
331	Spoken language identification based on optimised genetic algorithm-extreme learning machine approach. <b>2019</b> , 22, 711-727		17
330	. <i>IEEE Access</i> , <b>2019</b> , 7, 30102-30111	3.5	7
329	Nonlinear Process Monitoring Based on Global Preserving Unsupervised Kernel Extreme Learning Machine. <i>IEEE Access</i> , <b>2019</b> , 7, 106053-106064	3.5	5
328	Unsupervised Shape Co-segmentation Based on Transformation Network. <b>2019</b> , 44, 9029-9041		1
327	Target-Induced 3D DNA Network Structure as a Novel Signal Amplifier for Ultrasensitive Electrochemiluminescence Detection of MicroRNAs. <b>2019</b> , 91, 14368-14374		30
326	Extreme Learning Machines to Combat Phase Noise in RoF-OFDM Schemes. <i>Electronics (Switzerland)</i> , <b>2019</b> , 8, 921	2.6	9
325	Multi-View Fusion with Extreme Learning Machine for Clustering. <b>2019</b> , 10, 1-23		9
324	On the driving forces of historical changes in the fatalities of tropical cyclone disasters in China from 1951 to 2014. <b>2019</b> , 98, 507-533		2
323	Comparisons of Various ELM Based Multi-View Clustering Methods for WDSNs. <b>2019</b> ,		
322	Semi-supervised variational Bayesian Student-t mixture regression and robust inferential sensor application. <b>2019</b> , 92, 104155		8
321	Reversible Data Hiding by Using Adaptive Pixel Value Prediction and Adaptive Embedding Bin Selection. <b>2019</b> , 26, 1713-1717		11



320	Optimization of the richardson integration over fluctuations of its step sizes. <b>2019</b> , 6, 1643438		
319	Extreme Self-Paced Learning Machine for On-Orbit SAR Images Change Detection. <i>IEEE Access</i> , <b>2019</b> , 7, 116413-116423	3-5	6
318	Hyperspectral Image Clustering Based on Unsupervised Broad Learning. <b>2019</b> , 16, 1741-1745		22
317	Analysis of Information Dissemination Based on Emotional and the Evolution Life Cycle of Public Opinion. <b>2019</b> ,		0
316	PICO and OS-ELM-LRF Based Online Learning System for Object Detection. <b>2019</b> ,		1
315	Breast Cancer Detection Using Extreme Learning Machine Based on Feature Fusion With CNN Deep Features. <i>IEEE Access</i> , <b>2019</b> , 7, 105146-105158	3-5	81
314	Joint Domain Matching and Classification for cross-domain adaptation via ELM. <i>Neurocomputing</i> , <b>2019</b> , 349, 314-325	5-4	8
313	ELM-MHC: An Improved MHC Identification Method with Extreme Learning Machine Algorithm. <b>2019</b> , 18, 1392-1401		39
312	An unsupervised parameter learning model for RVFL neural network. <i>Neural Networks</i> , <b>2019</b> , 112, 85-97	9-1	54
311	An ELM based local topology preserving hashing. <b>2019</b> , 10, 2691-2708		1
310	Application of quasi-oppositional symbiotic organisms search based extreme learning machine for stock market prediction. <b>2019</b> , 12, 175-193		2
309	Towards a more efficient and cost-sensitive extreme learning machine: A state-of-the-art review of recent trend. <i>Neurocomputing</i> , <b>2019</b> , 350, 70-90	5-4	20
308	A novel fault diagnosis algorithm for rotating machinery based on a sparsity and neighborhood preserving deep extreme learning machine. <i>Neurocomputing</i> , <b>2019</b> , 350, 261-270	5-4	33
307	Breast mass detection and diagnosis using fused features with density. <b>2019</b> , 27, 321-342		2
306	Fast and unsupervised outlier removal by recurrent adaptive reconstruction extreme learning machine. <b>2019</b> , 10, 3539-3556		
305	. <i>IEEE Access</i> , <b>2019</b> , 7, 13433-13444	3-5	7
304	Manifold regularization based distributed semi-supervised learning algorithm using extreme learning machine over time-varying network. <i>Neurocomputing</i> , <b>2019</b> , 355, 24-34	5-4	6
303	Probabilistic Linear Discriminant Analysis With Vectorial Representation for Tensor Data. <b>2019</b> , 30, 2938-2950		2

302	Spatial Crowdsourcing Quality Control Model Based on K-Anonymity Location Privacy Protection and ELM Spammer Detection. <b>2019</b> , 2019, 1-10		1
301	Convolutional neural network based on an extreme learning machine for image classification. <i>Neurocomputing</i> , <b>2019</b> , 339, 66-76	5.4	22
300	Mobile Robot Indoor Positioning System Based on K-ELM. <b>2019</b> , 2019, 1-11		8
299	Arbitrary norm semi-supervised extreme learning machine. <b>2019</b> , 37, 835-845		
298	An Improved Random Forest Algorithm of Fault Diagnosis for Rotating Machinery. <b>2019</b> ,		1
297	Instantaneous Mental Workload Classification Using Semi-Supervised Learning*. <b>2019</b> ,		1
296	Bio inspired Ensemble Feature Selection (BEFS) Model with Machine Learning and Data Mining Algorithms for Disease Risk Prediction. <b>2019</b> ,		1
295	Semisupervised Bayesian Gaussian Mixture Models for Non-Gaussian Soft Sensor. <i>IEEE Transactions on Cybernetics</i> , <b>2021</b> , 51, 3455-3468	10.2	6
294	An Incremental Broad Learning Approach for Semi-Supervised Classification. <b>2019</b> ,		5
293	Multi-Scale Remote Sensing Semantic Analysis Based on a Global Perspective. <i>ISPRS International Journal of Geo-Information</i> , <b>2019</b> , 8, 417	2.9	4
292	An Efficient Classification of Fuzzy XML Documents Based on Kernel ELM. <b>2019</b> , 23, 515		1
291	Mineral Mapping of Drill Core Hyperspectral Data with Extreme Learning Machines. <b>2019</b> ,		
290	Multi-modal Recognition of Mental Workload Using Empirical Mode Decomposition and Semi-Supervised Learning. <b>2019</b> ,		
289	Multi-Class Learning from Label Proportions for Bank Customer Classification. <b>2019</b> , 162, 421-428		2
288	Semi-Supervised Online Elastic Extreme Learning Machine with Forgetting Parameter to deal with concept drift in data streams. <b>2019</b> ,		1
287	Gender identification based on human brain structural MRI with a multi-layer 3D convolution extreme learning machine. <b>2019</b> , 1, 91-96		3
286	. <b>2019</b> , 21, 795-808		17
285	Lagrangian supervised and semi-supervised extreme learning machine. <i>Applied Intelligence</i> , <b>2019</b> , 49, 303-318	4.9	14

284	A Soft Sensing Scheme of Gas Utilization Ratio Prediction for Blast Furnace Via Improved Extreme Learning Machine. <b>2019</b> , 50, 1191-1213		10
283	Multi-label learning method based on ML-RBF and laplacian ELM. <i>Neurocomputing</i> , <b>2019</b> , 331, 213-219	5.4	8
282	A distributed semi-supervised learning algorithm based on manifold regularization using wavelet neural network. <i>Neural Networks</i> , <b>2019</b> , 118, 300-309	9.1	6
281	Parallel Computing and SGD-Based DPMM For Soft Sensor Development With Large-Scale Semisupervised Data. <b>2019</b> , 66, 6362-6373		27
280	Image Classification Using Low-Rank Regularized Extreme Learning Machine. <i>IEEE Access</i> , <b>2019</b> , 7, 877-883	3	
279	Disentangled Variational Auto-Encoder for semi-supervised learning. <i>Information Sciences</i> , <b>2019</b> , 482, 73-85	7.7	22
278	Semi-supervised feature learning for improving writer identification. <i>Information Sciences</i> , <b>2019</b> , 482, 156-170	7.7	24
277	Enhancing unsupervised neural networks based text summarization with word embedding and ensemble learning. <i>Expert Systems With Applications</i> , <b>2019</b> , 123, 195-211	7.8	38
276	An analytical method for measuring the Parkinson disease progression: A case on a Parkinson telemonitoring dataset. <i>Measurement: Journal of the International Measurement Confederation</i> , <b>2019</b> , 136, 545-557	4.6	21
275	. <b>2019</b> , 66, 6331-6342		82
274	Adaptive Semi-Supervised Classifier Ensemble for High Dimensional Data Classification. <i>IEEE Transactions on Cybernetics</i> , <b>2019</b> , 49, 366-379	10.2	31
273	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
272	Spatial extreme learning machines: An application on prediction of disease counts. <b>2019</b> , 28, 2583-2594		2
271	Multiobjective Semisupervised Classifier Ensemble. <i>IEEE Transactions on Cybernetics</i> , <b>2019</b> , 49, 2280-2293	10.2	14
270	Dynamic emotion modelling and anomaly detection in conversation based on emotional transition tensor. <b>2019</b> , 46, 11-22		14
269	Domain Space Transfer Extreme Learning Machine for Domain Adaptation. <i>IEEE Transactions on Cybernetics</i> , <b>2019</b> , 49, 1909-1922	10.2	50
268	Image classification based on sparse-coded features using sparse coding technique for aerial imagery: a hybrid dictionary approach. <b>2019</b> , 31, 3587-3607		5
267	User-centered recommendation using US-ELM based on dynamic graph model in E-commerce. <b>2019</b> , 10, 693-703		8

266	Cross-Domain Extreme Learning Machines for Domain Adaptation. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , <b>2019</b> , 49, 1194-1207	7.3	17
265	RETRACTED ARTICLE: Detecting anomalous emotion through big data from social networks based on a deep learning method. <b>2020</b> , 79, 9687-9687		3
264	Clustering Based on Supervised Learning of Exemplar Discriminative Information. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , <b>2020</b> , 50, 5255-5270	7.3	4
263	Automatic optic disc detection using low-rank representation based semi-supervised extreme learning machine. <b>2020</b> , 11, 55-69		14
262	Deep Wavelet Extreme Learning Machine for Data Classification. <i>Advances in Intelligent Systems and Computing</i> , <b>2020</b> , 105-113	0.4	2
261	International Joint Conference: 12th International Conference on Computational Intelligence in Security for Information Systems (CISIS 2019) and 10th International Conference on European Transnational Education (ICEUTE 2019). <i>Advances in Intelligent Systems and Computing</i> , <b>2020</b> ,	0.4	
260	Density-based semi-supervised online sequential extreme learning machine. <b>2020</b> , 32, 7747-7758		3
259	Robust Online Multilabel Learning Under Dynamic Changes in Data Distribution With Labels. <i>IEEE Transactions on Cybernetics</i> , <b>2020</b> , 50, 374-385	10.2	7
258	Approximate empirical kernel map-based iterative extreme learning machine for clustering. <b>2020</b> , 32, 8031-8046		1
257	Twin minimax probability extreme learning machine for pattern recognition. <b>2020</b> , 187, 104806		9
256	Adaptive Online Learning With Regularized Kernel for One-Class Classification. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , <b>2020</b> , 1-16	7.3	8
255	. <i>IEEE Transactions on Industrial Informatics</i> , <b>2020</b> , 16, 2965-2976	11.9	23
254	Discriminative globality-locality preserving extreme learning machine for image classification. <i>Neurocomputing</i> , <b>2020</b> , 387, 13-21	5.4	3
253	Ensemble extreme learning machines for compound-fault diagnosis of rotating machinery. <b>2020</b> , 188, 105012		28
252	Regularized correntropy criterion based semi-supervised ELM. <i>Neural Networks</i> , <b>2020</b> , 122, 117-129	9.1	20
251	A hybrid data mining approach for identifying the temporal effects of variables associated with breast cancer survival. <i>Expert Systems With Applications</i> , <b>2020</b> , 139, 112863	7.8	23
250	Performance Management of Integrated Systems and its Applications in Software Engineering. <b>2020</b> ,		
249	LERI: Local Exploration for Rare-Category Identification. <b>2020</b> , 1-1		

248	Extreme semi-supervised learning for multiclass classification. <i>Neurocomputing</i> , <b>2020</b> , 376, 103-118	5.4	5
247	Fuzzy granularity neighborhood extreme clustering. <i>Neurocomputing</i> , <b>2020</b> , 379, 236-249	5.4	3
246	Deep learning and big data technologies for IoT security. <b>2020</b> , 151, 495-517		108
245	Unsupervised feature selection based extreme learning machine for clustering. <i>Neurocomputing</i> , <b>2020</b> , 386, 198-207	5.4	20
244	Unsupervised feature learning with sparse Bayesian auto-encoding based extreme learning machine. <b>2020</b> , 11, 1557-1569		2
243	. <b>2020</b> , 35, 7086-7099		24
242	Weight-and-Universum-based semi-supervised multi-view learning machine. <b>2020</b> , 24, 10657-10679		4
241	Multi-parallel Extreme Learning Machine with Excitatory and Inhibitory Neurons for Regression. <b>2020</b> , 51, 1579-1597		1
240	An Optimal Weight Semi-Supervised Learning Machine for Neural Networks with Time Delay. <b>2020</b> , 37, 656-670		
239	A hybrid wavelet decomposer and GMDH-ELM ensemble model for Network function virtualization workload forecasting in cloud computing. <i>Applied Soft Computing Journal</i> , <b>2020</b> , 88, 105940	7.5	21
238	A semi-supervised Laplacian extreme learning machine and feature fusion with CNN for industrial superheat identification. <i>Neurocomputing</i> , <b>2020</b> , 381, 186-195	5.4	20
237	ELM embedded discriminative dictionary learning for image classification. <i>Neural Networks</i> , <b>2020</b> , 123, 331-342	9.1	8
236	Correntropy induced loss based sparse robust graph regularized extreme learning machine for cancer classification. <b>2020</b> , 21, 445		6
235	A Sensorless Adaptive Optics Control System for Microscopy Based on Extreme Learning Machine. <b>2020</b> ,		
234	A joint optimization framework to semi-supervised RVFL and ELM networks for efficient data classification. <i>Applied Soft Computing Journal</i> , <b>2020</b> , 97, 106756	7.5	14
233	L-Extreme Learning Machine: An Efficient Robust Classifier for Tumor Classification. <b>2020</b> , 89, 107368		3
232	Intelligent Prediction of Train Delay Changes and Propagation Using RVFLNs With Improved Transfer Learning and Ensemble Learning. <b>2020</b> , 1-13		4
231	An Active Learning Methodology for Efficient Estimation of Expensive Noisy Black-Box Functions Using Gaussian Process Regression. <i>IEEE Access</i> , <b>2020</b> , 8, 111460-111474	3.5	6

230	Multi-class motor imagery EEG classification using collaborative representation-based semi-supervised extreme learning machine. <b>2020</b> , 58, 2119-2130		7
229	An Accurate and Robust Method for Spike Sorting Based on Convolutional Neural Networks. <b>2020</b> , 10,		1
228	Classification of the Complex Agricultural Planting Structure with a Semi-Supervised Extreme Learning Machine Framework. <i>Remote Sensing</i> , <b>2020</b> , 12, 3708	5	9
227	Analysing the Role of Supervised and Unsupervised Machine Learning in IoT. <b>2020</b> ,		5
226	Fuzzy ELM for classification based on feature space. <b>2020</b> , 79, 27439-27464		1
225	The Application of Image Style Transformation Based on GAN in the Intelligent Mobile Terminal. <b>2020</b> ,		
224	Decomposition Based Cloud Resource Demand Prediction Using Extreme Learning Machines. <b>2020</b> , 28, 1775-1793		3
223	Graph Convolutional Extreme Learning Machine. <b>2020</b> ,		3
222	Mixture Correntropy-Based Kernel Extreme Learning Machines. <b>2020</b> , PP,		4
221	A Novel Model on Reinforce K-Means Using Location Division Model and Outlier of Initial Value for Lowering Data Cost. <b>2020</b> , 22,		3
220	Fisher-regularized supervised and semi-supervised extreme learning machine. <b>2020</b> , 62, 3995-4027		1
219	Assessment of Landslide Susceptibility Combining Deep Learning with Semi-Supervised Learning in Jiaohe County, Jilin Province, China. <b>2020</b> , 10, 5640		13
218	Multi-View Spectral Clustering via ELM-AE Ensemble Features Representations Learning. <i>IEEE Access</i> , <b>2020</b> , 8, 198679-198690	3.5	1
217	Abnormal vibration detection in the bearing-shaft system via semi-supervised classification of accelerometer signal patterns. <b>2020</b> , 51, 316-323		1
216	A joint pitch estimation and voicing detection method for melody extraction. <b>2020</b> , 166, 107338		
215	Detecting salient regions in a bi-temporal hyperspectral scene by iterating clustering and classification. <i>Applied Intelligence</i> , <b>2020</b> , 50, 3179-3200	4.9	5
214	An Advanced Pruning Method in the Architecture of Extreme Learning Machines Using L1-Regularization and Bootstrapping. <i>Electronics (Switzerland)</i> , <b>2020</b> , 9, 811	2.6	5
213	Detecting bi-level false data injection attack based on time series analysis method in smart grid. <b>2020</b> , 96, 101899		1

212	Robust Maximum Mixture Correntropy Criterion-Based Semi-Supervised ELM With Variable Center. <b>2020</b> , 67, 3572-3576		6
211	Improving graph-based label propagation algorithm with group partition for fraud detection. <i>Applied Intelligence</i> , <b>2020</b> , 50, 3291-3300	4.9	7
210	Instantaneous mental workload assessment using time-frequency analysis and semi-supervised learning. <b>2020</b> , 14, 619-642		3
209	Feature-Temporal Semi-Supervised Extreme Learning Machine for Robotic Terrain Classification. <b>2020</b> , 67, 3567-3571		15
208	Fingerprint Classification through Standard and Weighted Extreme Learning Machines. <b>2020</b> , 10, 4125		4
207	Robust TSK Fuzzy System Based on Semisupervised Learning for Label Noise Data. <b>2020</b> , 1-1		4
206	A semi-supervised linear/nonlinear least-square learning network for prediction of carbon efficiency in iron ore sintering process. <b>2020</b> , 100, 104454		8
205	Sparse representation preserving embedding based on extreme learning machine for process monitoring. <b>2020</b> , 42, 1895-1907		3
204	Distributed Semi-Supervised Learning With Missing Data. <i>IEEE Transactions on Cybernetics</i> , <b>2020</b> ,	10.2	2
203	. <b>2020</b> , 25, 2177-2187		37
202	Extreme learning machine adapted to noise based on optimization algorithms. <b>2020</b> , 1514, 012006		
201	Soft Sensing of Nonlinear and Multimode Processes Based on Semi-Supervised Weighted Gaussian Regression. <b>2020</b> , 20, 12950-12960		10
200	Deep and wide feature based extreme learning machine for image classification. <i>Neurocomputing</i> , <b>2020</b> , 412, 426-436	5.4	8
199	Non-iterative and Fast Deep Learning: Multilayer Extreme Learning Machines. <b>2020</b> , 357, 8925-8955		36
198	Graph-based boosting algorithm to learn labeled and unlabeled data. <i>Pattern Recognition</i> , <b>2020</b> , 106, 107417	7.7	3
197	Well Logging Based Lithology Identification Model Establishment Under Data Drift: A Transfer Learning Method. <i>Sensors</i> , <b>2020</b> , 20,	3.8	14
196	Gas Source Declaration With Tetrahedral Sensing Geometries and Median Value Filtering Extreme Learning Machine. <i>IEEE Access</i> , <b>2020</b> , 8, 7227-7235	3.5	1
195	Supervised Extreme Learning Machine-Based Auto-Encoder for Discriminative Feature Learning. <i>IEEE Access</i> , <b>2020</b> , 8, 11700-11709	3.5	3

194	. <i>IEEE Access</i> , <b>2020</b> , 8, 99154-99170	3.5	6
193	Learning-Driven Detection and Mitigation of DDoS Attack in IoT via SDN-Cloud Architecture. <b>2020</b> , 7, 3559-3570		64
192	Improved Spatial Information Based Semisupervised Classification of Remote Sensing Images. <b>2020</b> , 13, 329-340		4
191	Semi-supervised learning quantization algorithm with deep features for motor imagery EEG Recognition in smart healthcare application. <i>Applied Soft Computing Journal</i> , <b>2020</b> , 89, 106071	7.5	19
190	FEM Simulation-Based Generative Adversarial Networks to Detect Bearing Faults. <i>IEEE Transactions on Industrial Informatics</i> , <b>2020</b> , 16, 4961-4971	11.9	46
189	. <i>IEEE Access</i> , <b>2020</b> , 8, 14024-14035	3.5	7
188	Semi-Supervised Broad Learning System Based on Manifold Regularization and Broad Network. <b>2020</b> , 67, 983-994		115
187	Semisupervised Radial Basis Function Neural Network With an Effective Sampling Strategy. <b>2020</b> , 68, 1260-1269		8
186	Relaxation of the Radio-Frequency Linewidth for Coherent-Optical Orthogonal Frequency-Division Multiplexing Schemes by Employing the Improved Extreme Learning Machine. <i>Symmetry</i> , <b>2020</b> , 12, 632	2.7	8
185	A Deep Learning Method for Short-Term Residential Load Forecasting in Smart Grid. <i>IEEE Access</i> , <b>2020</b> , 8, 55785-55797	3.5	36
184	Variances-constrained weighted extreme learning machine for imbalanced classification. <i>Neurocomputing</i> , <b>2020</b> , 403, 45-52	5.4	7
183	Distributed semi-supervised learning algorithms for random vector functional-link networks with distributed data splitting across samples and features. <b>2020</b> , 195, 105577		4
182	Supervised and semi-supervised twin parametric-margin regularized extreme learning machine. <b>2020</b> , 23, 1603-1626		1
181	Binary Output Layer of Extreme Learning Machine for Solving Multi-class Classification Problems. <b>2020</b> , 52, 153-167		2
180	AUC-Based Extreme Learning Machines for Supervised and Semi-Supervised Imbalanced Classification. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , <b>2020</b> , 1-12	7.3	5
179	Clustering via Adaptive and Locality-constrained Graph Learning and Unsupervised ELM. <i>Neurocomputing</i> , <b>2020</b> , 401, 224-235	5.4	5
178	A novel semi-supervised support vector machine with asymmetric squared loss. <b>2021</b> , 15, 159-191		1
177	Adaptive CCR-ELM with variable-length brain storm optimization algorithm for class-imbalance learning. <b>2021</b> , 20, 11-22		12



176	Naturalistic Data-Driven Predictive Energy Management for Plug-In Hybrid Electric Vehicles. <b>2021</b> , 7, 497-508		41
175	. <b>2021</b> , 70, 1427-1442		
174	Balanced Graph-based regularized semi-supervised extreme learning machine for EEG classification. <b>2021</b> , 12, 903-916		6
173	Residual-Network-Leveraged Vehicle-Thrown-Waste Identification in Real-Time Traffic Surveillance Videos. <b>2021</b> , 22, 1817-1826		2
172	Robust Adaptive Semi-supervised Classification Method based on Dynamic Graph and Self-paced Learning. <b>2021</b> , 58, 102433		4
171	Machine Learning in Predictive Toxicology: Recent Applications and Future Directions for Classification Models. <b>2021</b> , 34, 217-239		14
170	Robust supervised and semi-supervised twin extreme learning machines for pattern classification. <b>2021</b> , 180, 107861		1
169	An ELM-Based Semi-Supervised Indoor Localization Technique With Clustering Analysis and Feature Extraction. <b>2021</b> , 21, 3635-3644		4
168	Proceedings of ELM2019. <i>Proceedings in Adaptation, Learning and Optimization</i> , <b>2021</b> ,		0.2
167	Graph Embedding-Based Dimension Reduction With Extreme Learning Machine. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , <b>2021</b> , 51, 4262-4273	7.3	5
166	Novel L1 Regularized Extreme Learning Machine for Soft-sensing of an Industrial Process. <i>IEEE Transactions on Industrial Informatics</i> , <b>2021</b> , 1-1	11.9	9
165	Regularized based implicit Lagrangian twin extreme learning machine in primal for pattern classification. <b>2021</b> , 12, 1311-1342		10
164	Joint Feature Representation and Classifier Learning Based Unsupervised Domain Adaption ELM. <b>2021</b> , 30, 109-118		0
163	Insecurity Early Warning for Large Scale Hybrid AC/DC Grids Based on Decision Tree and Semi-Supervised Deep Learning. <b>2021</b> , 1-1		7
162	Wavelet extreme learning machine and deep learning for data classification. <i>Neurocomputing</i> , <b>2021</b> , 470, 280-280	5.4	6
161	An Enhanced Unsupervised Extreme Learning Machine Based Method for the Nonlinear Fault Detection. <i>IEEE Access</i> , <b>2021</b> , 9, 48884-48898	3.5	3
160	Hybrid Unsupervised Extreme Learning Machine Applied to Facies Identification. <i>Advances in Intelligent Systems and Computing</i> , <b>2021</b> , 319-326	0.4	
159	Extreme Learning Machine Based on Double Kernel Risk-Sensitive Loss for Cancer Samples Classification. <i>Lecture Notes in Computer Science</i> , <b>2021</b> , 532-539	0.9	

158	Intelligent Data Analytics for Battery Health Forecasting Using Semi-Supervised and Unsupervised Extreme Learning Machines. <b>2021</b> , 215-241		2
157	ALBERT-Based Self-Ensemble Model With Semisupervised Learning and Data Augmentation for Clinical Semantic Textual Similarity Calculation: Algorithm Validation Study. <b>2021</b> , 9, e23086		1
156	. <i>IEEE Access</i> , <b>2021</b> , 9, 94826-94844	3.5	3
155	Research Review for Broad Learning System: Algorithms, Theory, and Applications. <i>IEEE Transactions on Cybernetics</i> , <b>2021</b> , PP,	10.2	18
154	Extreme Learning Machine for Heartbeat Classification with Hybrid Time-Domain and Wavelet Time-Frequency Features. <b>2021</b> , 2021, 6674695		3
153	A Multi-Strategy Marine Predator Algorithm and Its Application in Joint Regularization Semi-Supervised ELM. <b>2021</b> , 9, 291		4
152	Transfer Extreme Learning Machine with Output Weight Alignment. <i>Computational Intelligence and Neuroscience</i> , <b>2021</b> , 2021, 6627765	3	2
151	Application of Artificial Intelligence in Computational Fluid Dynamics. <b>2021</b> , 60, 2772-2790		4
150	Classification with ensembles and case study on functional magnetic resonance imaging. <b>2021</b> ,		2
149	LL-ELM: A regularized extreme learning machine based on ( $L_{1}$ )-norm and Liu estimator. <b>2021</b> , 33, 10469-10484		
148	Processes soft modeling based on stacked autoencoders and wavelet extreme learning machine for aluminum plant-wide application. <b>2021</b> , 108, 104706		9
147	Research for an Adaptive Classifier Based on Dynamic Graph Learning. 1		
146	A Cluster Based Classification for Imbalanced Data Using SMOTE. <b>2021</b> , 1099, 012080		
145	Transfer of semi-supervised broad learning system in electroencephalography signal classification. <b>2021</b> , 33, 10597-10613		2
144	When Old Meets New: Emotion Recognition from Speech Signals. <b>2021</b> , 13, 771		6
143	Intrusion detection methods based on integrated deep learning model. <b>2021</b> , 103, 102177		12
142	A Hybrid Method Based on Extreme Learning Machine and Wavelet Transform Denoising for Stock Prediction. <b>2021</b> , 23,		8
141	Random compact Gaussian kernel: Application to ELM classification and regression. <b>2021</b> , 217, 106848		5

140	Semi-Supervised Extreme Learning Machine Channel Estimator and Equalizer for Vehicle to Vehicle Communications. <i>Electronics (Switzerland)</i> , <b>2021</b> , 10, 968	2.6	4
139	Semi-Supervised Classification via Hypergraph Convolutional Extreme Learning Machine. <b>2021</b> , 11, 3867		1
138	Analysis and evaluation of two short-term load forecasting techniques. <b>2021</b> ,		3
137	A semi-supervised linear-nonlinear prediction system for tumbler strength of iron ore sintering process with imbalanced data in multiple working modes. <b>2021</b> , 110, 104766		2
136	Reinforcement Learning Based Hierarchical Multi-Agent Robotic Search Team in Uncertain Environment. <b>2021</b> , 40, 645-662		1
135	Adversarial Semi-Supervised Learning for Diagnosing Faults and Attacks in Power Grids. <b>2021</b> , 12, 3468-3478		24
134	Manifold regularization ensemble clustering with many objectives using unsupervised extreme learning machines. <b>2021</b> , 25, 847-862		
133	Non-iterative online sequential learning strategy for autoencoder and classifier. 1		0
132	AutoFuse: A Semi-supervised Autoencoder based Multi-Sensor Fusion Framework. <b>2021</b> ,		
131	Unsupervised Fuzzy Neural Network for Image Clustering. <b>2021</b> ,		0
130	Broad learning system for semi-supervised learning. <i>Neurocomputing</i> , <b>2021</b> , 444, 38-47	5.4	4
129	Advances in the Application of Machine Learning Techniques for Power System Analytics: A Survey. <b>2021</b> , 14, 4776		9
128	Fuzzy enhancement and deep hash layer based neural network to detect Covid-19. <b>2021</b> , 41, 1341-1351		1
127	Diagnosis Methodology Based on Deep Feature Learning for Fault Identification in Metallic, Hybrid and Ceramic Bearings. <i>Sensors</i> , <b>2021</b> , 21,	3.8	6
126	Kernel Risk-Sensitive Loss based Hyper-graph Regularized Robust Extreme Learning Machine and Its Semi-supervised Extension for Classification. <b>2021</b> , 227, 107226		2
125	Nonlinear variational Bayesian Student-t mixture regression and inferential sensor application with semisupervised data. <b>2021</b> , 105, 141-159		4
124	Demand Forecasting for Multichannel Fashion Retailers by Integrating Clustering and Machine Learning Algorithms. <b>2021</b> , 9, 1578		3
123	Ensemble dimension reduction based on spectral disturbance for subspace clustering. <b>2021</b> , 227, 107182		1

122	Robust semi-supervised classification based on data augmented online ELMs with deep features. <b>2021</b> , 229, 107307		0
121	Graph-based broad learning system for classification. <i>Neurocomputing</i> , <b>2021</b> , 463, 535-544	5.4	0
120	Broad learning system with manifold regularized sparse features for semi-supervised classification. <i>Neurocomputing</i> , <b>2021</b> , 463, 133-143	5.4	2
119	A constructive approach to data-driven randomized learning for feedforward neural networks. <i>Applied Soft Computing Journal</i> , <b>2021</b> , 112, 107797	7.5	2
118	A novel WWH problem-based semi-supervised online method for sensor drift compensation in E-nose. <b>2021</b> , 349, 130727		1
117	Incremental semi-supervised Extreme Learning Machine for Mixed data stream classification. <i>Expert Systems With Applications</i> , <b>2021</b> , 185, 115591	7.8	4
116	Breast Cancer Detection Through Feature Clustering and Deep Learning. <b>2022</b> , 31, 1273-1286		0
115	Feature recognition of irregular pellet images by regularized Extreme Learning Machine in combination with fractal theory. <b>2022</b> , 127, 92-108		0
114	Droughts across China: Drought factors, prediction and impacts. <b>2022</b> , 803, 150018		7
113	Identity Authentication with Association Behavior Sequence in Machine-to-Machine Mobile Terminals. 1		
112	Supervised Learning Algorithm: A Survey. <b>2021</b> , 71-78		
111	Breast cancer detection using active contour and classification by deep belief network. <b>2021</b> , 45, 2721-2724		3
110	An Inverse-Free and Scalable Sparse Bayesian Extreme Learning Machine for Classification Problems. <i>IEEE Access</i> , <b>2021</b> , 9, 87543-87551	3.5	1
109	3D Shape Co-segmentation by Combining Sparse Representation with Extreme Learning Machine. <i>Lecture Notes in Computer Science</i> , <b>2018</b> , 570-581	0.9	2
108	A Systematic Review on Supervised and Unsupervised Machine Learning Algorithms for Data Science. <b>2020</b> , 3-21		62
107	Back Propagation Convex Extreme Learning Machine. <i>Proceedings in Adaptation, Learning and Optimization</i> , <b>2018</b> , 259-272	0.2	6
106	Performance Evaluation of Learners for Analyzing the Hotel Customer Sentiments Based on Text Reviews. <b>2020</b> , 199-209		2
105	Incremental laplacian regularization extreme learning machine for online learning. <i>Applied Soft Computing Journal</i> , <b>2017</b> , 59, 546-555	7.5	11

104	A semi-supervised dynamic ensemble algorithm for IoT anomaly detection. <b>2020,</b>	1
103	An Adaptive Social Spammer Detection Model with Semi-supervised Broad Learning. <b>2020,</b> 1-1	8
102	An Improved Local Coupled Extreme Learning Machine. <b>2016,</b> 11, 745-755	1
101	Pseudoinverse Matrix Decomposition Based Incremental Extreme Learning Machine with Growth of Hidden Nodes. <b>2016,</b> 16, 125-130	6
100	An Evolutionary Multi-Layer Extreme Learning Machine for Data Clustering Problems. <b>2021,</b>	0
99	An Unsupervised Discriminative Random Vector Functional Link Network for Efficient Data Clustering. <b>2021,</b>	
98	An Overview on Supervised Semi-structured Data Classification. <b>2021,</b>	1
97	Laplacian Generalized Eigenvalues Extreme Learning Machine. 1	
96	Fault Classification System for Switchgear CBM from an Ultrasound Analysis Technique Using Extreme Learning Machine. <b>2021,</b> 14, 6279	2
95	Graph-based semi-supervised random forest for rotating machinery gearbox fault diagnosis. <b>2021,</b> 117, 104952	4
94	Modeling Based on the Extreme Learning Machine for Raw Cement Mill Grinding Process. <b>2015,</b> 129-138	2
93	NMR Image Segmentation Based on Unsupervised Extreme Learning Machine. <i>Proceedings in Adaptation, Learning and Optimization, 2016,</i> 333-346	0.2
92	A Multiway Semi-supervised Online Sequential Extreme Learning Machine for Facial Expression Recognition with Kinect RGB-D Images. <i>Lecture Notes in Computer Science, 2017,</i> 240-253	0.9
91	Evaluation of Randomized Variable Translation Wavelet Neural Networks. <b>2017,</b> 3-12	
90	Detection of Cellular Spikes and Classification of Cells from Raw Nanoscale Biosensor Data. <i>Proceedings in Adaptation, Learning and Optimization, 2018,</i> 75-87	0.2
89	Multi-kernel Transfer Extreme Learning Classification. <i>Proceedings in Adaptation, Learning and Optimization, 2018,</i> 159-170	0.2 1
88	Behavior-learning based semi-supervised kernel extreme learning machine for classification. <b>2017,</b> 511-514	
87	Improving the Speed and Quality of Extreme Learning Machine by Conjugate Gradient Method. <i>Advances in Intelligent Systems and Computing, 2018,</i> 128-137	0.4

86	Domain Correction-Based Adaptive Extreme Learning Machine. <b>2018</b> , 209-224		
85	Data Clustering Based On Key Identification. <i>Signal and Data Processing</i> , <b>2018</b> , 14, 31-42	0	1
84	Hierarchical Pruning Discriminative Extreme Learning Machine. <i>Proceedings in Adaptation, Learning and Optimization</i> , <b>2019</b> , 230-239	0.2	
83	Protecting User Privacy in Mobile Environment Using ELM-UPP. <i>Proceedings in Adaptation, Learning and Optimization</i> , <b>2019</b> , 22-34	0.2	
82	Robust Multi-feature Extreme Learning Machine. <i>Proceedings in Adaptation, Learning and Optimization</i> , <b>2019</b> , 150-161	0.2	
81	Application Study of Extreme Learning Machine in Image Edge Extraction. <i>Proceedings in Adaptation, Learning and Optimization</i> , <b>2019</b> , 35-45	0.2	
80	Extreme Latent Representation Learning for Visual Classification. <i>Proceedings in Adaptation, Learning and Optimization</i> , <b>2020</b> , 65-75	0.2	
79	Research on Quality Control of Marine Monitoring Data Based on Extreme Learning Machine. <i>Lecture Notes in Computer Science</i> , <b>2020</b> , 327-338	0.9	
78	Kernel risk-sensitive mean p-power loss based hyper-graph regularized robust extreme learning machine and its semi-supervised extension for sample classification. <i>Applied Intelligence</i> , 1	4.9	
77	Unsupervised Assisted Directional Design of Chemical Reactions. <i>Cell Reports Physical Science</i> , <b>2020</b> , 1, 100269	6.1	0
76	Dimensionality Reduction with Extreme Learning Machine Based on Manifold Preserving. <i>Lecture Notes in Computer Science</i> , <b>2020</b> , 128-138	0.9	
75	Classifying Mental Workload Levels Using Semi-Supervised Learning Technique. <i>IFAC-PapersOnLine</i> , <b>2020</b> , 53, 10242-10249	0.7	
74	Robust Graph Regularized Extreme Learning Machine Auto Encoder and Its Application to Single-Cell Samples Classification. <i>Lecture Notes in Computer Science</i> , <b>2020</b> , 537-545	0.9	
73	A study of the conversion of different evaporation pans in South China based on the extreme learning machine model. <i>Hydrological Sciences Journal</i> ,	3.5	1
72	ALBERT-Based Self-Ensemble Model With Semisupervised Learning and Data Augmentation for Clinical Semantic Textual Similarity Calculation: Algorithm Validation Study (Preprint).		
71	The Modeling of Decomposable Gene Regulatory Network Using US-ELM. <i>Proceedings in Adaptation, Learning and Optimization</i> , <b>2021</b> , 141-150	0.2	
70	A Vortex Identification Method Based on Extreme Learning Machine. <i>International Journal of Aerospace Engineering</i> , <b>2020</b> , 2020, 1-10	0.9	1
69	. <i>IEEE Access</i> , <b>2021</b> , 9, 152379-152396	3.5	4

68	Machine learning and deep learning strategies in drug repositioning. <i>Current Bioinformatics</i> , <b>2021</b> , 16,	4.7	
67	Superpixel-level Global and Local Similarity Graph-based Clustering for Large Hyperspectral Images. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , <b>2021</b> , 1-1	8.1	1
66	Consistent-Contrastive Network with Temporality-Awareness for Robust-to-Anomaly Industrial Soft Sensor. <i>IEEE Transactions on Instrumentation and Measurement</i> , <b>2021</b> , 1-1	5.2	1
65	Trend-guided Small Hydropower System Power Prediction Based on Extreme Learning Machine. <b>2020</b> ,		0
64	Class Imbalance SS-ELM for Regional Air Pollution Prediction. <b>2020</b> ,		
63	Modified Lanczos Algorithm for L2,1 norm Regularization Extreme Learning Machine. <b>2021</b> ,		
62	Efficient joint model learning, segmentation and model updating for visual tracking.. <i>Neural Networks</i> , <b>2022</b> , 147, 175-185	9.1	0
61	Semi-supervised learning-assisted imaging method for electrical capacitance tomography. <i>Applied Mathematical Modelling</i> , <b>2022</b> ,	4.5	
60	Demagnetization Fault Diagnosis of Permanent Magnet Synchronous Motors Using Magnetic Leakage Signals. <i>IEEE Transactions on Industrial Informatics</i> , <b>2022</b> , 1-1	11.9	3
59	Evolution-Driven Randomized Graph Convolutional Networks. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , <b>2022</b> , 1-11	7.3	4
58	A novel approach for flip chip inspection based on improved SDELM and vibration signals. <i>Science China Technological Sciences</i> , 1	3.5	0
57	Manifold semi-supervised learning for aluminum electrolysis temperature identification based on regularized hierarchical extreme learning machine. <i>Proceedings of the Institution of Mechanical Engineers Part I: Journal of Systems and Control Engineering</i> , 095965182210828	1	1
56	Keeping continuous diagnostic data continuous: Application of Bayesian latent class models in veterinary research.. <i>Preventive Veterinary Medicine</i> , <b>2022</b> , 201, 105596	3.1	
55	Graph-based sparse bayesian broad learning system for semi-supervised learning. <i>Information Sciences</i> , <b>2022</b> , 597, 193-210	7.7	1
54	Some remarks on activation function design in complex extreme learning using Schwarz lemma. <i>Neurocomputing</i> , <b>2022</b> , 492, 23-33	5.4	0
53	Facial Nerve Paralysis Assessment based on Regularized Correntropy Criterion SSELMLvc and Cascade CNN. <b>2021</b> ,		
52	Speech Emotion Recognition Using Multi-Layer Sparse Auto-Encoder Extreme Learning Machine and Spectral/Spectro-Temporal Features with New Weighting Method for Data Imbalance. <b>2021</b> ,		0
51	An Adaptive Deep Ensemble Learning Method for Dynamic Evolving Diagnostic Task Scenarios.. <i>Diagnostics</i> , <b>2021</b> , 11,	3.8	0

50	Hydrological time series prediction by extreme learning machine and sparrow search algorithm. <i>Water Science and Technology: Water Supply</i> , <b>2022</b> , 22, 3143-3157	1.4	1
49	Quantum beetle swarm algorithm optimized extreme learning machine for intrusion detection. <i>Quantum Information Processing</i> , <b>2022</b> , 21, 1	1.6	1
48	Role of Artificial Intelligence and Machine Learning in Product Design and Manufacturing. <b>2022</b> ,		
47	Prototype Regularized Manifold Regularization Technique for Semi-Supervised Online Extreme Learning Machine.. <i>Sensors</i> , <b>2022</b> , 22,	3.8	0
46	Remote Sensing Satellite Image-Based Monitoring of Agricultural Ecosystem. <i>Wireless Communications and Mobile Computing</i> , <b>2022</b> , 2022, 1-12	1.9	0
45	Local Gravitation Clustering-Based Semisupervised Online Sequential Extreme Learning Machine. <i>Security and Communication Networks</i> , <b>2022</b> , 2022, 1-15	1.9	
44	Representation learning using deep random vector functional link networks for clustering. <i>Pattern Recognition</i> , <b>2022</b> , 129, 108744	7.7	1
43	Learning robust graph for clustering. <i>International Journal of Intelligent Systems</i> ,	8.4	
42	A Novel Key Features Screening Method Based on Extreme Learning Machine for Alzheimer's Disease Study. <i>Frontiers in Aging Neuroscience</i> , <b>2022</b> , 14,	5.3	0
41	Diagnosis of unbalanced rolling bearing fault sample based on adaptive sparse contrastive Auto-encoder and IGWO-USELM. <i>Measurement: Journal of the International Measurement Confederation</i> , <b>2022</b> , 198, 111353	4.6	0
40	Block-Wise Parallel Semisupervised Linear Dynamical System for Massive and Inconsecutive Time-Series Data With Application to Soft Sensing. <i>IEEE Transactions on Instrumentation and Measurement</i> , <b>2022</b> , 71, 1-14	5.2	1
39	Application of multi-angle millimeter-wave radar detection in human motion behavior and micro-action recognition. <i>Measurement Science and Technology</i> ,	2	0
38	An extreme learning machine for unsupervised online anomaly detection in multivariate time series. <i>Neurocomputing</i> , <b>2022</b> ,	5.4	0
37	Online Sequential Extreme Learning Machine-Based Active Interference Activity Prediction for Cognitive Radar. <i>Remote Sensing</i> , <b>2022</b> , 14, 2737	5	
36	Lagrangian Regularized Twin Extreme Learning Machine for Supervised and Semi-Supervised Classification. <i>Symmetry</i> , <b>2022</b> , 14, 1186	2.7	
35	A Fusion Decision-Making Architecture for COVID-19 Crisis Analysis and Management. <i>Electronics (Switzerland)</i> , <b>2022</b> , 11, 1793	2.6	
34	A binary dandelion algorithm using seeding and chaos population strategies for feature selection. <i>Applied Soft Computing Journal</i> , <b>2022</b> , 125, 109166	7.5	0
33	A Transferable Feature-based Classifier to Improve Transferability of Electronic Nose Systems. <b>2022</b> , 1-4		



32	TSTEML: Two-Stage Transfer Extreme Learning Machine for Unsupervised Domain Adaptation. <i>Computational Intelligence and Neuroscience</i> , <b>2022</b> , 2022, 1-18	3	1
31	Landslide Susceptibility Prediction Based on High-Trust Non-Landslide Point Selection. <i>ISPRS International Journal of Geo-Information</i> , <b>2022</b> , 11, 398	2.9	1
30	A GPU-based accelerated ELM and deep-ELM training algorithms for traditional and deep neural networks classifiers. <i>Intelligent Systems With Applications</i> , <b>2022</b> , 15, 200098		
29	A hybrid framework based on extreme learning machine, discrete wavelet transform, and autoencoder with feature penalty for stock prediction. <i>Expert Systems With Applications</i> , <b>2022</b> , 207, 118006	7.8	0
28	A Study on the Applicability of the Impact-Echo Test Using Semi-Supervised Learning Based on Dynamic Preconditions. <b>2022</b> , 22, 5484		0
27	An accuracy-maximization learning framework for supervised and semi-supervised imbalanced data. <b>2022</b> , 109678		1
26	Jointly optimized ensemble deep random vector functional link network for semi-supervised classification. <b>2022</b> , 115, 105214		3
25	Detecting and recognizing driver distraction through various data modality using machine learning: A review, recent advances, simplified framework and open challenges (2014-2021). <b>2022</b> , 115, 105309		0
24	A fisher score-based multi-instance learning method assisted by mixture of factor analysis. <b>2022</b> , 507, 358-368		0
23	Quantum-Inspired Machine Learning for 6G: Fundamentals, Security, Resource Allocations, Challenges, and Future Research Directions. <b>2022</b> , 3, 375-387		1
22	Fault Detection and Classification for Wide Area Backup Protection of Power Transmission Lines Using Weighted Extreme Learning Machine. <b>2022</b> , 10, 82407-82417		0
21	A Semi-Supervised Progressive Learning Algorithm for Brain-Computer Interface. <b>2022</b> , 30, 2067-2076		0
20	A Novel Ellipsoidal Semisupervised Extreme Learning Machine Algorithm and Its Application in Wind Turbine Blade Icing Fault Detection. <b>2022</b> , 71, 1-16		0
19	Day Ahead Solar Irradiation Forecasting Based on Extreme Learning Machine. <b>2022</b> ,		0
18	Semi-Supervised Online Kernel Extreme Learning Machine for Multi-Label Data Stream Classification. <b>2022</b> ,		0
17	Training of an Extreme Learning Machine Autoencoder Based on an Iterative Shrinkage-Thresholding Optimization Algorithm. <b>2022</b> , 12, 9021		0
16	Improvement of accuracy of under-performing classifier in decision making using discrete memoryless channel model and Particle Swarm Optimization. <b>2022</b> , 118929		0
15	Discriminative Extreme Learning Machine with Cross-Domain Mean Approximation for Unsupervised Domain Adaptation. <b>2022</b> , 2022, 1-22		0

- 14 Structure parameter estimation method for microwave device using dimension reduction network. ○
- 13 Could artificial intelligence revolutionize the development of nanovectors for gene therapy and mRNA vaccines?. **2022**, 47, 101665 ○
- 12 Semi-supervised learning with graph convolutional extreme learning machines. **2023**, 213, 119164 ○
- 11 Unsupervised multilayer fuzzy neural networks for image clustering. **2023**, 622, 682-709 2
- 10 Multiscale laplacian learning. ○
- 9 Surface Feature Prediction for Laser Ablated 40Cr13 Stainless Steel Based on Extreme Learning Machine. **2023**, 16, 505 ○
- 8 A Semisupervised Concept Drift Adaptation via Prototype-Based Manifold Regularization Approach with Knowledge Transfer. **2023**, 11, 355 ○
- 7 An integrated Extreme learning machine based on kernel risk-sensitive loss of q-Gaussian and voting mechanism for sample classification. **2022**, ○
- 6 An Analysis of Artificial Intelligence Techniques in Surveillance Video Anomaly Detection: A Comprehensive Survey. **2023**, 13, 4956 ○
- 5 A dual-model semi-supervised self-organizing fuzzy inference system for data stream classification. **2023**, 136, 110053 ○
- 4 AM-RP Stacking PILers: Random projection stacking pseudoinverse learning algorithm based on attention mechanism. ○
- 3 Past, present and future of the applications of machine learning in soil science and hydrology. ○
- 2 Transfer Extreme Learning Machine with Cross Domain Mean Approximation Projection. **2022**, ○
- 1 A Generalized Adaptive Robust Distance Metric Driven Smooth Regularization Learning Framework for Pattern Recognition. **2023**, 109102 ○