Ioannis E Livieris

List of Publications by Year
in descending order

58	1,404	430874	361022
papers	citations	18	35
		h-index	g-index

59	59	59	863
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	A dropout weight-constrained recurrent neural network model for forecasting the price of major cryptocurrencies and CCi30 index. Evolving Systems, 2022, 13, 85-100.	3.9	12
2	A novel multi-step forecasting strategy for enhancing deep learning models' performance. Neural Computing and Applications, 2022, 34, 19453-19470.	5.6	8
3	On ensemble techniques of weight-constrained neural networks. Evolving Systems, 2021, 12, 155-167.	3.9	23
4	Smoothing and stationarity enforcement framework for deep learning time-series forecasting. Neural Computing and Applications, 2021, 33, 14021-14035.	5.6	15
5	Automatic classification of solitary pulmonary nodules in PET/CT imaging employing transfer learning techniques. Medical and Biological Engineering and Computing, 2021, 59, 1299-1310.	2.8	17
6	A novel explainable image classification framework: case study on skin cancer and plant disease prediction. Neural Computing and Applications, 2021, 33, 15171-15189.	5.6	16
7	An Advanced CNN-LSTM Model for Cryptocurrency Forecasting. Electronics (Switzerland), 2021, 10, 287.	3.1	73
8	An Autoencoder Convolutional Neural Network Framework for Sarcopenia Detection Based on Multi-frame Ultrasound Image Slices. IFIP Advances in Information and Communication Technology, 2021, , 209-219.	0.7	2
9	A Convolutional Autoencoder Topology for Classification in High-Dimensional Noisy Image Datasets. Sensors, 2021, 21, 7731.	3.8	24
10	An improved weight-constrained neural network training algorithm. Neural Computing and Applications, 2020, 32, 4177-4185.	5.6	12
11	An Alternating Sum of Fibonacci and Lucas Numbers of Order k. Mathematics, 2020, 8, 1487.	2.2	3
12	A Multiple-Input Neural Network Model for Predicting Cotton Production Quantity: A Case Study. Algorithms, 2020, 13, 273.	2.1	11
13	Fuzzy Information Diffusion in Twitter by Considering User's Influence. International Journal on Artificial Intelligence Tools, 2020, 29, 2040003.	1.0	5
14	Ensemble Deep Learning Models for Forecasting Cryptocurrency Time-Series. Algorithms, 2020, 13, 121.	2.1	69
15	Special Issue on Ensemble Learning and Applications. Algorithms, 2020, 13, 140.	2.1	45
16	Explainable Machine Learning Framework for Image Classification Problems: Case Study on Glioma Cancer Prediction. Journal of Imaging, 2020, 6, 37.	3.0	39
17	A novel validation framework to enhance deep learning models in time-series forecasting. Neural Computing and Applications, 2020, 32, 17149-17167.	5.6	42
18	An advanced active set L-BFGS algorithm for training weight-constrained neural networks. Neural Computing and Applications, 2020, 32, 6669-6684.	5.6	14

#	Article	IF	Citations
19	A CNNâ€"LSTM model for gold price time-series forecasting. Neural Computing and Applications, 2020, 32, 17351-17360.	5.6	375
20	Investigating the Problem of Cryptocurrency Price Prediction: A Deep Learning Approach. IFIP Advances in Information and Communication Technology, 2020, , 99-110.	0.7	29
21	An Advanced Deep Learning Model for Short-Term Forecasting U.S. Natural Gas Price and Movement. IFIP Advances in Information and Communication Technology, 2020, , 165-176.	0.7	15
22	A Grey-Box Ensemble Model Exploiting Black-Box Accuracy and White-Box Intrinsic Interpretability. Algorithms, 2020, 13, 17.	2.1	72
23	An Improved Self-Labeled Algorithm for Cancer Prediction. Advances in Experimental Medicine and Biology, 2020, 1194, 331-342.	1.6	3
24	DTCo: An Ensemble SSL Algorithm for X-ray Classification. Advances in Experimental Medicine and Biology, 2020, 1194, 263-274.	1.6	1
25	High Performance Machine Learning Models of Large Scale Air Pollution Data in Urban Area. Cybernetics and Information Technologies, 2020, 20, 49-60.	1.1	9
26	Apache Spark Implementations for String Patterns in DNA Sequences. Advances in Experimental Medicine and Biology, 2020, 1194, 439-453.	1.6	0
27	Weight-Constrained Neural Networks in Forecasting Tourist Volumes: A Case Study. Electronics (Switzerland), 2019, 8, 1005.	3.1	9
28	Detecting Lung Abnormalities From X-rays Using an Improved SSL Algorithm. Electronic Notes in Theoretical Computer Science, 2019, 343, 19-33.	0.9	6
29	Prediction of Studentsâ€™ Graduation Time Using a Two-Level Classification Algorithm. Communications in Computer and Information Science, 2019, , 553-565.	0.5	9
30	Improving the Classification Efficiency of an ANN Utilizing a New Training Methodology. Informatics, 2019, 6, 1.	3.9	34
31	Forecasting Studentsâ€™ Performance Using an Ensemble SSL Algorithm. Communications in Computer and Information Science, 2019, , 566-581.	0.5	3
32	An adaptive nonmonotone active set â€" weight constrained â€" neural network training algorithm. Neurocomputing, 2019, 360, 294-303.	5.9	10
33	Employing Constrained Neural Networks for Forecasting New Productâ€™s Sales Increase. IFIP Advances in Information and Communication Technology, 2019, , 161-172.	0.7	4
34	Forecasting Economy-Related Data Utilizing Weight-Constrained Recurrent Neural Networks. Algorithms, 2019, 12, 85.	2.1	13
35	A Weighted Voting Ensemble Self-Labeled Algorithm for the Detection of Lung Abnormalities from X-Rays. Algorithms, 2019, 12, 64.	2.1	31
36	Gender Recognition by Voice using an Improved Self-Labeled Algorithm. Machine Learning and Knowledge Extraction, 2019, 1, 492-503.	5.0	37

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37	Predicting Secondary School Students' Performance Utilizing a Semi-supervised Learning Approach. Journal of Educational Computing Research, 2019, 57, 448-470.	5.5	53
38	A new ensemble self-labeled semi-supervised algorithm. Informatica (Slovenia), 2019, 43, .	0.9	14
39	A descent hybrid conjugate gradient method based on the memoryless BFGS update. Numerical Algorithms, 2018, 79, 1169-1185.	1.9	19
40	On Ensemble SSL Algorithms for Credit Scoring Problem. Informatics, 2018, 5, 40.	3.9	14
41	Performance Evaluation of an SSL Algorithm for Forecasting the Dow Jones Index Stocks. , 2018, , .		2
42	An Ensemble SSL Algorithm for Efficient Chest X-Ray Image Classification. Journal of Imaging, 2018, 4, 95.	3.0	28
43	Decision Support Software for Forecasting Patientâ€™s Length of Stay. Algorithms, 2018, 11, 199.	2.1	14
44	Predicting length of stay in hospitalized patients using SSL algorithms. , 2018, , .		5
45	An identity relating Fibonacci and Lucas numbers of order k. Electronic Notes in Discrete Mathematics, 2018, 70, 37-42.	0.4	1
46	An Ensemble-Based Semi-Supervised Approach for Predicting Studentsâ€™ Performance. , 2018, , 25-42.		17
47	An Auto-Adjustable Semi-Supervised Self-Training Algorithm. Algorithms, 2018, 11, 139.	2.1	18
48	Identification of Blood Cell Subtypes from Images Using an Improved SSL Algorithm. Biomedical Journal of Scientific & Technical Research, 2018, 9, .	0.1	6
49	Enhancing high school students' performance based on semi-supervised methods. , 2017, , .		4
50	A limited memory descent Perry conjugate gradient method. Optimization Letters, 2016, 10, 1725-1742.	1.6	3
51	A new class of nonmonotone conjugate gradient training algorithms. Applied Mathematics and Computation, 2015, 266, 404-413.	2.2	5
52	A modified Perry conjugate gradient method and its global convergence. Optimization Letters, 2015, 9, 999-1015.	1.6	3
53	A new conjugate gradient algorithm for training neural networks based on a modified secant equation. Applied Mathematics and Computation, 2013, 221, 491-502.	2.2	31
54	A new class of spectral conjugate gradient methods based on a modified secant equation for unconstrained optimization. Journal of Computational and Applied Mathematics, 2013, 239, 396-405.	2.0	21

#	Article	IF	Citations
55	A Descent Dai-Liao Conjugate Gradient Method Based on a Modified Secant Equation and Its Global Convergence. , 2012, 2012, 1-8.		13
56	AN IMPROVED SPECTRAL CONJUGATE GRADIENT NEURAL NETWORK TRAINING ALGORITHM. International Journal on Artificial Intelligence Tools, 2012, 21, 1250009.	1.0	8
57	Globally convergent modified Perry's conjugate gradient method. Applied Mathematics and Computation, 2012, 218, 9197-9207.	2.2	27
58	An Advanced Conjugate Gradient Training Algorithm Based on a Modified Secant Equation. , 2012, 2012, 1-9.		6