Ioannis E Livieris

List of Publications by Year in Descending Order

56 papers	599 citations	15 h-index	22 g-index
59 ext. papers	921 ext. citations	2.3 avg, IF	5.4 L-index

#	Paper	IF	Citations
56	A Convolutional Autoencoder Topology for Classification in High-Dimensional Noisy Image Datasets. *Sensors*, **2021**, 21,	3.8	2
55	Smoothing and stationarity enforcement framework for deep learning time-series forecasting. *Neural Computing and Applications*, **2021**, 33, 1-15	4.8	3
54	Automatic classification of solitary pulmonary nodules in PET/CT imaging employing transfer learning techniques. *Medical and Biological Engineering and Computing*, **2021**, 59, 1299-1310	3.1	5
53	A novel explainable image classification framework: case study on skin cancer and plant disease prediction. *Neural Computing and Applications*, **2021**, 33, 15171	4.8	4
52	On ensemble techniques of weight-constrained neural networks. *Evolving Systems*, **2021**, 12, 155-167	2.1	12
51	An Advanced CNN-LSTM Model for Cryptocurrency Forecasting. *Electronics (Switzerland)*, **2021**, 10, 287	2.6	22
50	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	0.5	
49	A Multiple-Input Neural Network Model for Predicting Cotton Production Quantity: A Case Study. *Algorithms*, **2020**, 13, 273	1.8	3
48	Fuzzy Information Diffusion in Twitter by Considering User$ Influence. *International Journal on Artificial Intelligence Tools*, **2020**, 29, 2040003	0.9	2
47	Ensemble Deep Learning Models for Forecasting Cryptocurrency Time-Series. *Algorithms*, **2020**, 13, 121	1.8	25
46	Explainable Machine Learning Framework for Image Classification Problems: Case Study on Glioma Cancer Prediction. *Journal of Imaging*, **2020**, 6,	3.1	18
45	A novel validation framework to enhance deep learning models in time-series forecasting. *Neural Computing and Applications*, **2020**, 32, 17149-17167	4.8	16
44	An advanced active set L-BFGS algorithm for training weight-constrained neural networks. *Neural Computing and Applications*, **2020**, 32, 6669-6684	4.8	9
43	Apache Spark Implementations for String Patterns in DNA Sequences. *Advances in Experimental Medicine and Biology*, **2020**, 1194, 439-453	3.6	
42	A Grey-Box Ensemble Model Exploiting Black-Box Accuracy and White-Box Intrinsic Interpretability. *Algorithms*, **2020**, 13, 17	1.8	23
41	An Improved Self-Labeled Algorithm for Cancer Prediction. *Advances in Experimental Medicine and Biology*, **2020**, 1194, 331-342	3.6	0
40	DTCo: An Ensemble SSL Algorithm for X-ray Classification. *Advances in Experimental Medicine and Biology*, **2020**, 1194, 263-274	3.6	

39	High Performance Machine Learning Models of Large Scale Air Pollution Data in Urban Area. *Cybernetics and Information Technologies*, **2020**, 20, 49-60	1.3	1
38	Investigating the Problem of Cryptocurrency Price Prediction: A Deep Learning Approach. *IFIP Advances in Information and Communication Technology*, **2020**, 99-110	0.5	12
37	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	0.5	9
36	An Alternating Sum of Fibonacci and Lucas Numbers of Order k. *Mathematics*, **2020**, 8, 1487	2.3	2
35	An improved weight-constrained neural network training algorithm. *Neural Computing and Applications*, **2020**, 32, 4177-4185	4.8	7
34	A CNN-LSTM model for gold price time-series forecasting. *Neural Computing and Applications*, **2020**, 32, 17351-17360	4.8	108
33	Weight-Constrained Neural Networks in Forecasting Tourist Volumes: A Case Study. *Electronics (Switzerland)*, **2019**, 8, 1005	2.6	7
32	Detecting Lung Abnormalities From X-rays Using an Improved SSL Algorithm. *Electronic Notes in Theoretical Computer Science*, **2019**, 343, 19-33	0.7	2
31	Prediction of Students Graduation Time Using a Two-Level Classification Algorithm. *Communications in Computer and Information Science*, **2019**, 553-565	0.3	3
30	Improving the Classification Efficiency of an ANN Utilizing a New Training Methodology. *Informatics*, **2019**, 6, 1	2.2	30
29	Forecasting Students Performance Using an Ensemble SSL Algorithm. *Communications in Computer and Information Science*, **2019**, 566-581	0.3	2
28	An adaptive nonmonotone active set weight constrained neural network training algorithm. *Neurocomputing*, **2019**, 360, 294-303	5.4	7
27	Employing Constrained Neural Networks for Forecasting New Products Sales Increase. *IFIP Advances in Information and Communication Technology*, **2019**, 161-172	0.5	1
26	Forecasting Economy-Related Data Utilizing Weight-Constrained Recurrent Neural Networks. *Algorithms*, **2019**, 12, 85	1.8	10
25	A Weighted Voting Ensemble Self-Labeled Algorithm for the Detection of Lung Abnormalities from X-Rays. *Algorithms*, **2019**, 12, 64	1.8	17
24	Gender Recognition by Voice using an Improved Self-Labeled Algorithm. *Machine Learning and Knowledge Extraction*, **2019**, 1, 492-503	3.1	16
23	A new ensemble self-labeled semi-supervised algorithm. *Informatica (Slovenia)*, **2019**, 43,	2.3	12
22	Predicting Secondary School Students' Performance Utilizing a Semi-supervised Learning Approach. *Journal of Educational Computing Research*, **2019**, 57, 448-470	3.8	28

21	A descent hybrid conjugate gradient method based on the memoryless BFGS update. *Numerical Algorithms*, **2018**, 79, 1169-1185	2.1	8
20	Identification of Blood Cell Subtypes from Images Using an Improved SSL Algorithm. *Biomedical Journal of Scientific & Technical Research*, **2018**, 9,	1.6	4
19	On Ensemble SSL Algorithms for Credit Scoring Problem. *Informatics*, **2018**, 5, 40	2.2	9
18	An Ensemble SSL Algorithm for Efficient Chest X-Ray Image Classification. *Journal of Imaging*, **2018**, 4, 95	3.1	19
17	Decision Support Software for Forecasting Patient Length of Stay. *Algorithms*, **2018**, 11, 199	1.8	6
16	Predicting length of stay in hospitalized patients using SSL algorithms **2018**,		3
15	An identity relating Fibonacci and Lucas numbers of order k. *Electronic Notes in Discrete Mathematics*, **2018**, 70, 37-42	0.3	1
14	An Ensemble-Based Semi-Supervised Approach for Predicting Students Performance **2018**, 25-42		9
13	An Auto-Adjustable Semi-Supervised Self-Training Algorithm. *Algorithms*, **2018**, 11, 139	1.8	9
12	Enhancing high school students' performance based on semi-supervised methods **2017**,		2
11	A limited memory descent Perry conjugate gradient method. *Optimization Letters*, **2016**, 10, 1725-1742	1.1	2
10	A new class of nonmonotone conjugate gradient training algorithms. *Applied Mathematics and Computation*, **2015**, 266, 404-413	2.7	5
9	A modified Perry conjugate gradient method and its global convergence. *Optimization Letters*, **2015**, 9, 999-1015	1.1	3
8	A new conjugate gradient algorithm for training neural networks based on a modified secant equation. *Applied Mathematics and Computation*, **2013**, 221, 491-502	2.7	24
7	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	2.4	15
6	AN IMPROVED SPECTRAL CONJUGATE GRADIENT NEURAL NETWORK TRAINING ALGORITHM. *International Journal on Artificial Intelligence Tools*, **2012**, 21, 1250009	0.9	6
5	Globally convergent modified Perry conjugate gradient method. *Applied Mathematics and Computation*, **2012**, 218, 9197-9207	2.7	22
4	A Descent Dai-Liao Conjugate Gradient Method Based on a Modified Secant Equation and Its Global Convergence **2012**, 2012, 1-8		10

List of Publications

3	An Advanced Conjugate Gradient Training Algorithm Based on a Modified Secant Equation **2012**, 2012, 1-9		3
2	A dropout weight-constrained recurrent neural network model for forecasting the price of major cryptocurrencies and CCi30 index. *Evolving Systems*,1	2.1	3
1	A novel multi-step forecasting strategy for enhancing deep learning models performance. *Neural Computing and Applications*,1	4.8	0