

# Hugo Valadares Siqueira

## List of Publications by Year in descending order

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Version: 2024-02-01

63  
papers

1,072  
citations

393982

19  
h-index

454577

30  
g-index

63  
all docs

63  
docs citations

63  
times ranked

820  
citing authors

#	ARTICLE	IF	CITATIONS
1	Assessing the impact of PM2.5 on respiratory disease using artificial neural networks. Environmental Pollution, 2018, 235, 394-403.	3.7	101
2	Sensors and Systems for Physical Rehabilitation and Health Monitoring—A Review. Sensors, 2020, 20, 4063.	2.1	59
3	Swarm intelligence for clustering — A systematic review with new perspectives on data mining. Engineering Applications of Artificial Intelligence, 2019, 82, 313-329.	4.3	58
4	Ensemble method based on Artificial Neural Networks to estimate air pollution health risks. Environmental Modelling and Software, 2020, 123, 104567.	1.9	56
5	A novel binary artificial bee colony algorithm. Future Generation Computer Systems, 2019, 98, 180-196.	4.9	53
6	Feature selection and dimensionality reduction: An extensive comparison in hand gesture classification by sEMG in eight channels armband approach. Biomedical Signal Processing and Control, 2020, 59, 101920.	3.5	43
7	Optimization Tools Based on Metaheuristics for Performance Enhancement in a Gaussian Adaptive PID Controller. IEEE Transactions on Cybernetics, 2020, 50, 1185-1194.	6.2	41
8	UNORGANIZED MACHINES FOR SEASONAL STREAMFLOW SERIES FORECASTING. International Journal of Neural Systems, 2014, 24, 1430009.	3.2	37
9	Neural-Based Ensembles for Particulate Matter Forecasting. IEEE Access, 2021, 9, 14470-14490.	2.6	35
10	Performance analysis of unorganized machines in streamflow forecasting of Brazilian plants. Applied Soft Computing Journal, 2018, 68, 494-506.	4.1	34
11	Multi-objective ensembles of echo state networks and extreme learning machines for streamflow series forecasting. Engineering Applications of Artificial Intelligence, 2020, 95, 103910.	4.3	34
12	Artificial Neural Networks to Estimate the Influence of Vehicular Emission Variables on Morbidity and Mortality in the Largest Metropolis in South America. Sustainability, 2020, 12, 2621.	1.6	31
13	Air pollution epidemiology: A simplified Generalized Linear Model approach optimized by bio-inspired metaheuristics. Environmental Research, 2020, 191, 110106.	3.7	28
14	Simplified binary cat swarm optimization. Integrated Computer-Aided Engineering, 2020, 28, 35-50.	2.5	28
15	Selection of Temporal Lags for Predicting Riverflow Series from Hydroelectric Plants Using Variable Selection Methods. Energies, 2020, 13, 4236.	1.6	27
16	Dynamic model to predict the association between air quality, COVID-19 cases, and level of lockdown. Environmental Pollution, 2021, 268, 115920.	3.7	27
17	An adaptive hybrid system using deep learning for wind speed forecasting. Information Sciences, 2021, 581, 495-514.	4.0	27
18	Neural-Based Ensembles and Unorganized Machines to Predict Streamflow Series from Hydroelectric Plants. Energies, 2020, 13, 4769.	1.6	26

#	ARTICLE	IF	CITATIONS
19	Solar Irradiance Forecasting Using Dynamic Ensemble Selection. Applied Sciences (Switzerland), 2022, 12, 3510.	1.3	21
20	Gaussian adaptive PID control optimized via genetic algorithm applied to a step-down DC-DC converter. , 2016, , .		19
21	Application of PSO-based clustering algorithms on educational databases. , 2017, , .		18
22	Echo State Networks for Seasonal Streamflow Series Forecasting. Lecture Notes in Computer Science, 2012, , 226-236.	1.0	18
23	Echo State Networks and Extreme Learning Machines: A Comparative Study on Seasonal Streamflow Series Prediction. Lecture Notes in Computer Science, 2012, , 491-500.	1.0	18
24	Neural Networks for Predicting Prices of Sugarcane Derivatives. Sugar Tech, 2019, 21, 514-523.	0.9	17
25	Comparative analysis among feature selection of sEMG signal for hand gesture classification by armband. IEEE Latin America Transactions, 2020, 18, 1135-1143.	1.2	17
26	A Hybrid Nonlinear Combination System for Monthly Wind Speed Forecasting. IEEE Access, 2020, 8, 191365-191377.	2.6	16
27	Convolutional Neural Network to Detect and Measure Fetal Skull Circumference in Ultrasound Imaging. IEEE Access, 2020, 8, 191519-191529.	2.6	15
28	Unorganized machines to predict hospital admissions for respiratory diseases. , 2016, , .		14
29	Anomaly Detection in Automotive Industry Using Clustering Methodsâ€”A Case Study. Applied Sciences (Switzerland), 2021, 11, 9868.	1.3	14
30	Echo State Networks in Seasonal Streamflow Series Prediction. Learning and Nonlinear Models, 2012, 10, 181-191.	0.2	13
31	Boolean Binary Cat Swarm Optimization Algorithm. , 2018, , .		10
32	A Methodology to Increase the Accuracy of Particulate Matter Predictors Based on Time Decomposition. Sustainability, 2020, 12, 7310.	1.6	10
33	A methodology for coffee price forecasting based on extreme learning machines. Information Processing in Agriculture, 2022, 9, 556-565.	2.9	10
34	Energy Consumption Forecasting for Smart Meters Using Extreme Learning Machine Ensemble. Sensors, 2021, 21, 8096.	2.1	10
35	Recursive linear models optimized by bioinspired metaheuristics to streamflow time series prediction. International Transactions in Operational Research, 2023, 30, 742-773.	1.8	9
36	Overview on Binary Optimization Using Swarm-Inspired Algorithms. IEEE Access, 2021, 9, 149814-149858.	2.6	9

#	ARTICLE	IF	CITATIONS
37	Analysis of Bayesian Network Learning Techniques for a Hybrid Multi-objective Bayesian Estimation of Distribution Algorithm: a case study on MNK Landscape. <i>Journal of Heuristics</i> , 2021, 27, 549-573.	1.1	8
38	Investigation of College Dropout with the Fuzzy C-Means Algorithm. , 2019, , .		7
39	Unorganized machines and linear multivariate regression model applied to atmospheric pollutant forecasting. <i>Acta Scientiarum - Technology</i> , 0, 42, e48203.	0.4	7
40	Swarm-Inspired Algorithms to Optimize a Nonlinear Gaussian Adaptive PID Controller. <i>Energies</i> , 2021, 14, 3385.	1.6	6
41	Unorganized Machines to Estimate the Number of Hospital Admissions Due to Respiratory Diseases Caused by PM10 Concentration. <i>Atmosphere</i> , 2021, 12, 1345.	1.0	6
42	Comparative study of forecasting approaches in monthly streamflow series from Brazilian hydroelectric plants using Extreme Learning Machines and Box & Jenkins models. <i>Journal of Hydrology and Hydromechanics</i> , 2021, 69, 180-195.	0.7	5
43	Forecasting Particulate Matter Concentrations: Use of Unorganized Machines. <i>International Journal of Advanced Engineering Research and Science</i> , 2017, 4, 188-191.	0.0	5
44	Double-Swarm Binary Particle Swarm Optimization. , 2018, , .		4
45	SBFSS: Simplified Binary Fish School Search. , 2019, , .		3
46	Performance comparizon of unorganized recurrent neural network applied to streamflow forecasting of Sobradinho plant. , 2015, , .		2
47	Genetic Algorithm and Poles-Placement: a Comparative Study on the Design of PD and PID Controllers Applied to a Quadrotor Flight Stabilization. , 2018, , .		2
48	Performance Comparison of Particle Swarm optimization Strategies to Adjust a Nonlinear GAPID Controller. , 2018, , .		2
49	Detecting a predefined solar spot group with a pretrained convolutional neural network. , 2019, , .		2
50	Independent component analysis in multi-channel forearm surface electromyography processing on armband approach for hand gesture classification. <i>Research on Biomedical Engineering</i> , 2020, 36, 439-448.	1.5	2
51	Unorganized neural networks applied to streamflow forecasting of Passo Real hydroelectric plant. , 2016, , .		1
52	Seasonal Streamflow Series Forecasting Using Recurrent Neural Networks. , 2018, , .		1
53	Hyper-Heuristics Using Genetic Programming to Time Series Forecasting. , 2018, , .		1
54	ClusterizaÃ§Ã£o do perfil de adolescentes escolares com predisposiÃ§Ã£o ao uso de substÃ¢ncia psicoativas. <i>Research, Society and Development</i> , 2021, 10, e37510212528.	0.0	1

#	ARTICLE	IF	CITATIONS
55	Metaheuristic-based optimization applied to GAPID controller. , 2021, , .		1
56	Deseasonalization Methods in Seasonal Streamflow Series Forecasting. , 2020, , 1551-1560.		1
57	Modelling the Social Interactions in Grey Wolf Optimizer. , 2021, , .		1
58	Performance comparison of machine learning models for streamflow forecasting. , 2021, , .		1
59	Sunspot behavior forecast using neural networks approaches. , 2020, , .		0
60	Solar Spots Classification Using Pre-processing and Deep Learning Image Techniques. Communications in Computer and Information Science, 2019, , 235-246.	0.4	0
61	Desenvolvimento de um controlador Fuzzy-PID aplicado ã uma ventoinha. , 0, , .		0
62	Analysis of Regularized Echo State Networks on the Impact of Air Pollutants on Human Health. , 2020, , 357-364.		0
63	A Hybrid Model With Error Correction for Wind Speed Forecasting. , 2021, , .		0