

# Olga Valenzuela

## List of Publications by Year in descending order

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Version: 2024-02-01

55  
papers

1,055  
citations

471061

17  
h-index

433756

31  
g-index

59  
all docs

59  
docs citations

59  
times ranked

1055  
citing authors

#	ARTICLE	IF	CITATIONS
1	Soft-computing techniques and ARMA model for time series prediction. <i>Neurocomputing</i> , 2008, 71, 519-537.	3.5	188
2	Hybridization of intelligent techniques and ARIMA models for time series prediction. <i>Fuzzy Sets and Systems</i> , 2008, 159, 821-845.	1.6	139
3	Human activity recognition based on a sensor weighting hierarchical classifier. <i>Soft Computing</i> , 2013, 17, 333-343.	2.1	66
4	Recursive prediction for long term time series forecasting using advanced models. <i>Neurocomputing</i> , 2007, 70, 2870-2880.	3.5	64
5	TaSe, a Taylor series-based fuzzy system model that combines interpretability and accuracy. <i>Fuzzy Sets and Systems</i> , 2005, 153, 403-427.	1.6	60
6	Optimizing multiple sequence alignments using a genetic algorithm based on three objectives: structural information, non-gaps percentage and totally conserved columns. <i>Bioinformatics</i> , 2013, 29, 2112-2121.	1.8	48
7	Adaptive fuzzy controller: Application to the control of the temperature of a dynamic room in real time. <i>Fuzzy Sets and Systems</i> , 2006, 157, 2241-2258.	1.6	44
8	Classification of MRI Images for Alzheimer's Disease Detection. , 2013, , .		40
9	Parallel multiobjective memetic RBFNNs design and feature selection for function approximation problems. <i>Neurocomputing</i> , 2009, 72, 3541-3555.	3.5	35
10	Leukemia multiclass assessment and classification from Microarray and RNA-seq technologies integration at gene expression level. <i>PLoS ONE</i> , 2019, 14, e0212127.	1.1	31
11	Evolutionary computation for optimal knots allocation in smoothing splines. <i>Applied Mathematical Modelling</i> , 2013, 37, 5851-5863.	2.2	30
12	Using fuzzy logic to improve a clustering technique for function approximation. <i>Neurocomputing</i> , 2007, 70, 2853-2860.	3.5	28
13	Analysis of the operators involved in the definition of the implication functions and in the fuzzy inference process. <i>International Journal of Approximate Reasoning</i> , 1998, 19, 367-389.	1.9	27
14	Output value-based initialization for radial basis function neural networks. <i>Neural Processing Letters</i> , 2007, 25, 209-225.	2.0	26
15	Multi-Objective Genetic Algorithms to Find Most Relevant Volumes of the Brain Related to Alzheimer's Disease and Mild Cognitive Impairment. <i>International Journal of Neural Systems</i> , 2018, 28, 1850022.	3.2	26
16	Studying possibility in a clustering algorithm for RBFNN design for function approximation. <i>Neural Computing and Applications</i> , 2007, 17, 75-89.	3.2	22
17	Multiclass classification for skin cancer profiling based on the integration of heterogeneous gene expression series. <i>PLoS ONE</i> , 2018, 13, e0196836.	1.1	19
18	Using near-infrared spectroscopy in the classification of white and iberian pork with neural networks. <i>Neural Computing and Applications</i> , 2010, 19, 465-470.	3.2	17

#	ARTICLE	IF	CITATIONS
19	Towards Improving Skin Cancer Diagnosis by Integrating Microarray and RNA-Seq Datasets. IEEE Journal of Biomedical and Health Informatics, 2020, 24, 2119-2130.	3.9	16
20	Predicting the accuracy of multiple sequence alignment algorithms by using computational intelligent techniques. Nucleic Acids Research, 2013, 41, e26-e26.	6.5	13
21	An enhanced clustering function approximation technique for a radial basis function neural network. Mathematical and Computer Modelling, 2012, 55, 286-302.	2.0	12
22	Comparing different machine learning and mathematical regression models to evaluate multiple sequence alignments. Neurocomputing, 2015, 164, 123-136.	3.5	12
23	A new approach to estimate the interpolation error of fuzzy data using similarity measures of fuzzy numbers. Computers and Mathematics With Applications, 2011, 61, 1633-1645.	1.4	10
24	Fuzzy data approximation using smoothing cubic splines: Similarity and error analysis. Applied Mathematical Modelling, 2011, 35, 2122-2144.	2.2	9
25	The TaSe-NF model for function approximation problems: Approaching local and global modelling. Fuzzy Sets and Systems, 2011, 171, 1-21.	1.6	9
26	Advanced system for autonomously classify brain MRI in neurodegenerative disease. , 2012, , .		9
27	Determination of the Severity and Percentage of COVID-19 Infection through a Hierarchical Deep Learning System. Journal of Personalized Medicine, 2022, 12, 535.	1.1	8
28	Using machine learning techniques and genomic/proteomic information from known databases for defining relevant features for PPI classification. Computers in Biology and Medicine, 2012, 42, 639-650.	3.9	6
29	MultiGrid-Based Fuzzy Systems for Function Approximation. Lecture Notes in Computer Science, 2004, , 252-261.	1.0	5
30	The Synergy between Classical and Soft-Computing Techniques for Time Series Prediction. Lecture Notes in Computer Science, 2004, , 30-39.	1.0	5
31	Analysis of the TaSe-II TSK-Type Fuzzy System for Function Approximation. Lecture Notes in Computer Science, 2005, , 613-624.	1.0	4
32	Advanced systems in medical decision-making using intelligent computing. Application to magnetic resonance imaging. , 2012, , .		4
33	Estimation of COVID-19 Dynamics in the Different States of the United States during the First Months of the Pandemic. Engineering Proceedings, 2021, 5, .	0.4	4
34	Multi-Class Classifier in Parkinson's Disease Using an Evolutionary Multi-Objective Optimization Algorithm. Applied Sciences (Switzerland), 2022, 12, 3048.	1.3	3
35	Function Approximation through Fuzzy Systems Using Taylor Series Expansion-Based Rules: Interpretability and Parameter Tuning. Lecture Notes in Computer Science, 2004, , 508-516.	1.0	2
36	Comparison of different computational intelligent classifier to autonomously detect cardiac pathologies diagnosed by ECG. , 2013, , .		2

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37	Computational Intelligence Methods for Time Series Analysis and Forecasting: Special Issue of IWANN 2017. Neural Processing Letters, 2020, 52, 1-4.	2.0	2
38	TaSe Model for Long Term Time Series Forecasting. Lecture Notes in Computer Science, 2005, , 1027-1034.	1.0	1
39	Self-adaptive robot control using fuzzy logic. , 0, , .		1
40	INTELLIGENT SYSTEM BASED ON GENETIC PROGRAMMING FOR ATRIAL FIBRILLATION CLASSIFICATION. Applied Artificial Intelligence, 2009, 23, 895-909.	2.0	1
41	Selecting Negative Samples for PPI Prediction Using Hierarchical Clustering Methodology. Journal of Applied Mathematics, 2012, 2012, 1-23.	0.4	1
42	A new adaptive fuzzy control policy against conventional methods. Statistical analysis of real time control performance. , 2012, , .		1
43	Intelligent Systems to Autonomously Classify Several Arrhythmia Using Information from ECG. , 2013, , .		1
44	Identification of saccadic components in spinocerebellar ataxia applying an independent component analysis algorithm. Neurocomputing, 2013, 121, 53-63.	3.5	1
45	Statistical Analysis of the Main Configuration Parameters of the Network Dynamic and Adaptive Radio Protocol (DARP). Sensors, 2017, 17, 1502.	2.1	1
46	Comprehensive Pan-cancer Gene Signature Assessment through the Implementation of a Cascade Machine Learning System. Current Bioinformatics, 2023, 18, 40-54.	0.7	1
47	Classification of spino cerebellar ataxia type 2 based on the pulse-step saccadic model. International Journal of Psychophysiology, 2012, 85, 396.	0.5	0
48	A New Adaptive and Self Organizing Fuzzy Policy to Enhance the Real Time Control Performance. International Journal of Computational Intelligence Systems, 2014, 7, 582.	1.6	0
49	Creation of a Database Including a Set of Biological Features Related to Protein Sequences and Their Corresponding Alignment. , 2014, , .		0
50	Advances and New Perspectives in Medicinal Chemistry Engineering and Bioinformatics (from IWBBIO) Tj ETQq0 0 0 rgBT /Overlock 10 T	1.0	0
51	Wearable Intelligent System for the Diagnosis of Cardiac Diseases Working in Real Time and with Low Energy Cost. Proceedings (mdpi), 2018, 2, .	0.2	0
52	Advanced neural network systems for solving complex real problems. Neural Processing Letters, 2021, 53, 3049.	2.0	0
53	Independent Component Analysis Aided Diagnosis of Cuban Spino Cerebellar Ataxia 2. Lecture Notes in Computer Science, 2009, , 259-266.	1.0	0
54	Pulse Component Modification Detection in Spino Cerebellar Ataxia 2 Using ICA. Lecture Notes in Computer Science, 2011, , 323-328.	1.0	0

#	ARTICLE	IF	CITATIONS
55	A Hierarchical Classification for the Selection of the Most Suitable Multiple Sequence Alignment Methodology. <i>Current Bioinformatics</i> , 2015, 10, 199-207.	0.7	0