

# Luis Pastor SÃ¡nchez FernÃ¡ndez

## List of Publications by Year in descending order

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Version: 2024-02-01

59  
papers

646  
citations

623734

14  
h-index

610901

24  
g-index

63  
all docs

63  
docs citations

63  
times ranked

708  
citing authors

#	ARTICLE	IF	CITATIONS
1	Assessment and prediction of air quality using fuzzy logic and autoregressive models. Atmospheric Environment, 2012, 60, 37-50.	4.1	78
2	Water quality assessment in shrimp culture using an analytical hierarchical process. Ecological Indicators, 2013, 29, 148-158.	6.3	63
3	A fast, efficient and automated method to extract vessels from fundus images. Journal of Visualization, 2010, 13, 263-270.	1.8	52
4	Immediate water quality assessment in shrimp culture using fuzzy inference systems. Expert Systems With Applications, 2012, 39, 10571-10582.	7.6	52
5	Air quality assessment using a weighted Fuzzy Inference System. Ecological Informatics, 2016, 33, 57-74.	5.2	47
6	Rest tremor quantification based on fuzzy inference systems and wearable sensors. International Journal of Medical Informatics, 2018, 114, 6-17.	3.3	33
7	Marine mammal sound classification based on a parallel recognition model and octave analysis. Applied Acoustics, 2017, 119, 17-28.	3.3	29
8	Aircraft class identification based on take-off noise signal segmentation in time. Expert Systems With Applications, 2013, 40, 5148-5159.	7.6	25
9	Aircraft take-off noises classification based on human auditory's matched features extraction. Applied Acoustics, 2014, 84, 83-90.	3.3	24
10	Fuzzy inference model evaluating turn for Parkinson's disease patients. Computers in Biology and Medicine, 2017, 89, 379-388.	7.0	21
11	Pronation and supination analysis based on biomechanical signals from Parkinson's disease patients. Artificial Intelligence in Medicine, 2018, 84, 7-22.	6.5	20
12	Aircraft Classification and Acoustic Impact Estimation Based on Real-Time Take-off Noise Measurements. Neural Processing Letters, 2013, 38, 239-259.	3.2	18
13	Classification of unbalance and misalignment in induction motors using orbital analysis and associative memories. Neurocomputing, 2016, 175, 838-850.	5.9	17
14	Assessment and prediction of water quality in shrimp culture using signal processing techniques. Aquaculture International, 2011, 19, 1083-1104.	2.2	15
15	A method for environmental acoustic analysis improvement based on individual evaluation of common sources in urban areas. Science of the Total Environment, 2014, 468-469, 724-737.	8.0	12
16	Fuzzy Gain Scheduled Smith Predictor for Temperature Control in an Industrial Steel Slab Reheating Furnace. IEEE Latin America Transactions, 2016, 14, 4439-4447.	1.6	11
17	Computer model for leg agility quantification and assessment for Parkinson's disease patients. Medical and Biological Engineering and Computing, 2019, 57, 463-476.	2.8	10
18	Color Image Segmentation by Means of a Similarity Function. Lecture Notes in Computer Science, 2010, , 319-328.	1.3	10

#	ARTICLE	IF	CITATIONS
19	Classification Based on Fuzzy Inference Systems for Artificial Habitat Quality in Shrimp Farming. , 2008, , .		9
20	Geo-referenced flight path estimation based on spatio-temporal information extracted from aircraft take-off noise. , 2014, 30, 1-14.		9
21	Approaches to Classification of Multichannel Images. Lecture Notes in Computer Science, 2006, , 794-803.	1.3	8
22	Blind Source Separation of audio signals using independent component analysis and wavelets. , 2011, , .		7
23	Airport take-off noise assessment aimed at identify responsible aircraft classes. Science of the Total Environment, 2016, 542, 562-577.	8.0	7
24	Soil moisture Fuzzy Estimation Approach based on Decision-Making. Environmental Modelling and Software, 2017, 91, 223-240.	4.5	7
25	Morphological Transform for Image Compression. Eurasip Journal on Advances in Signal Processing, 2008, 2008, .	1.7	5
26	Dynamic hierarchical aggregation of parallel outputs for aircraft take-off noise identification. Engineering Applications of Artificial Intelligence, 2015, 46, 33-42.	8.1	5
27	Predominant environmental noise classification over sound mixing based on source-specific dictionary. Applied Acoustics, 2016, 112, 171-180.	3.3	5
28	Fuzzy inference model based on triaxial signals for pronation and supination assessment in Parkinson's disease patients. Artificial Intelligence in Medicine, 2020, 105, 101873.	6.5	5
29	Environmental noise indicators and acoustic indexes based on fuzzy modelling for urban spaces. Ecological Indicators, 2021, 126, 107631.	6.3	5
30	Rotor Unbalance Detection in Electrical Induction Motors Using Orbital Analysis. Lecture Notes in Computer Science, 2014, , 371-379.	1.3	5
31	An Analytical Hierarchy Process to manage water quality in white fish (Chirostoma estor estor) intensive culture. Computers and Electronics in Agriculture, 2019, 167, 105071.	7.7	4
32	Noise Pattern Recognition of Airplanes Taking Off: Task for a Monitoring System. , 2007, , 831-840.		3
33	Methods of analysis for urban environmental noise. , 2015, , .		2
34	Weighted fuzzy inference system for water quality management of Chirostoma estor estor culture. Aquaculture Reports, 2020, 18, 100487.	1.7	2
35	Discretization Accuracy of Continuous Signal Peak Values in Limited Bandwidth Systems. Computacion Y Sistemas, 2021, 25, .	0.3	2
36	Neural Network and Trend Prediction for Technological Processes Monitoring. Lecture Notes in Computer Science, 2005, , 731-740.	1.3	2

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37	Hardware Implementation of Image Recognition System Based on Morphological Associative Memories and Discrete Wavelet Transform. , 2007, , 664-677.		2
38	A Simple and Effective Method of Color Image Quantization. Lecture Notes in Computer Science, 2008, , 749-757.	1.3	2
39	Noise monitoring of aircrafts taking off based on neural model. , 2009, , .		1
40	New algorithm for efficient pattern recall using a static threshold with the Steinbuch Lernmatrix. Connection Science, 2011, 23, 33-44.	3.0	1
41	Separation and Identification of Environmental Noise Signals Using Independent Component Analysis and Data Mining Techniques. , 2011, , .		1
42	Assessment of the Artificial Habitat in Shrimp Aquaculture Using Environmental Pattern Classification. Lecture Notes in Computer Science, 2010, , 113-121.	1.3	1
43	Modelo basado en redes neuronales artificiales para la evaluación de la calidad del agua en sistemas de cultivo extensivo de camarón. Tecnología Y Ciencias Del Agua, 2017, 08, 71-89.	0.3	1
44	Using Adaptive Filter to Increase Automatic Speech Recognition Rate in a Digit Corpus. , 2007, , 78-87.		1
45	LOW-COST WAVE GENERATION SYSTEM BASED ON COMBINED NEURAL CONTROL AND A LINEAR MOTOR. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2007, 40, 171-176.	0.4	0
46	Digit Recognition in the Nahuatl Language: An Evaluation Using Various Recognition Models. , 2010, , .		0
47	Aircraft class recognition based on dynamic hierarchical weighting of multiple neural networks outputs. , 2015, , .		0
48	Biomechanical Signal Analysis for Evaluation of Gait in Parkinson's Disease. , 2018, , .		0
49	Monitoring System of Environment Noise and Pattern Recognition. International Journal of Energy and Environment, 2021, 15, 10-17.	0.1	0
50	Spectral Patterns for the Generation of Unidirectional Irregular Waves. Lecture Notes in Computer Science, 2005, , 861-868.	1.3	0
51	Data Dependent Wavelet Filtering for Lossless Image Compression. Lecture Notes in Computer Science, 2005, , 285-294.	1.3	0
52	Signal Analysis for Assessment and Prediction of the Artificial Habitat in Shrimp Aquaculture. Lecture Notes in Computer Science, 2009, , 353-360.	1.3	0
53	Turbo Codification Techniques for Error Control in a Communication Channel. Lecture Notes in Computer Science, 2010, , 221-231.	1.3	0
54	Environmental Pattern Recognition for Assessment of Air Quality Data with the Gamma Classifier. Lecture Notes in Computer Science, 2010, , 436-445.	1.3	0

#	ARTICLE	IF	CITATIONS
55	Aircraft Class Recognition based on Take-off Noise Patterns. Computacion Y Sistemas, 2016, 20, .	0.3	0
56	Neural Network Modelling for Dissolved Oxygen Effects in Extensive Litopenaeus Vannamei Culture. Lecture Notes in Computer Science, 2017, , 132-140.	1.3	0
57	Oil Whirl Fault Detection in Induction Motors Using Orbital Analysis and Neural Networks. Lecture Notes in Networks and Systems, 2018, , 286-296.	0.7	0
58	Soil Moisture Regional Estimation Approach to Determine Irrigation Demands. Computacion Y Sistemas, 2020, 24, .	0.3	0
59	Modelo Analítico Jerárquico para la evaluación de factores turísticos en playas. Economía, Sociedad Y Territorio, 2020, 20, 865-898.	0.1	0