

Diego H Peluffo-Ordez

List of Publications by Year in Descending Order

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Version: 2024-04-27

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

122
papers

487
citations

10
h-index

17
g-index

143
ext. papers

617
ext. citations

1.1
avg, IF

4.01
L-index

#	Paper	IF	Citations
122	Parkinson's Disease Diagnosis Through Electroencephalographic Signal Processing and Sub-optimal Feature Extraction. <i>Lecture Notes in Networks and Systems</i> , 2022 , 118-127	0.5	2
121	A New Data-Preprocessing-Related Taxonomy of Sensors for IoT Applications. <i>Information (Switzerland)</i> , 2022 , 13, 241	2.6	1
120	ECG-Based Heartbeat Classification for Arrhythmia Detection Using Artificial Neural Networks. <i>Lecture Notes in Computer Science</i> , 2022 , 247-259	0.9	2
119	Sign Language Recognition Using Leap Motion Based on Time-Frequency Characterization and Conventional Machine Learning Techniques. <i>Communications in Computer and Information Science</i> , 2021 , 55-67	0.3	
118	Classification of Subjects with Parkinson's Disease using Finger Tapping Dataset. <i>IFAC-PapersOnLine</i> , 2021 , 54, 376-381	0.7	0
117	. <i>IEEE Access</i> , 2021 , 9, 152206-152225	3.5	1
116	A Fast-Tracking Hybrid MPPT Based on Surface-Based Polynomial Fitting and P&O Methods for Solar PV under Partial Shaded Conditions. <i>Mathematics</i> , 2021 , 9, 2732	2.3	1
115	Enhanced Convolutional-Neural-Network Architecture for Crop Classification. <i>Applied Sciences (Switzerland)</i> , 2021 , 11, 4292	2.6	2
114	Addressing the Data Acquisition Paradigm in the Early Detection of Pediatric Foot Deformities. <i>Sensors</i> , 2021 , 21,	3.8	1
113	Information Quality Assessment for Data Fusion Systems. <i>Data</i> , 2021 , 6, 60	2.3	6
112	Unsupervised Barter Model Based on Natural Human Interaction. <i>Communications in Computer and Information Science</i> , 2021 , 387-400	0.3	
111	Generalized Spectral Dimensionality Reduction Based on Kernel Representations and Principal Component Analysis. <i>Lecture Notes in Computer Science</i> , 2021 , 512-523	0.9	
110	A Brief Review on Instance Selection Based on Condensed Nearest Neighbors for Data Classification Tasks. <i>Lecture Notes in Electrical Engineering</i> , 2021 , 313-324	0.2	
109	Algorithms Air Quality Estimation: A Comparative Study of Stochastic and Heuristic Predictive Models. <i>Lecture Notes in Computer Science</i> , 2021 , 293-304	0.9	1
108	Hybrid Embedded-Systems-Based Approach to in-Driver Drunk Status Detection Using Image Processing and Sensor Networks. <i>IEEE Sensors Journal</i> , 2021 , 21, 15729-15740	4	2
107	Integrating Information Visualization and Dimensionality Reduction: A pathway to Bridge the Gap between Natural and Artificial Intelligence. <i>Tecnologías</i> , 2021 , 24, e2108	0.6	
106	Information fusion and information quality assessment for environmental forecasting. <i>Urban Climate</i> , 2021 , 39, 100960	6.8	

105	An Interactive Framework to Compare Multi-criteria Optimization Algorithms: Preliminary Results on NSGA-II and MOPSO. <i>Lecture Notes in Electrical Engineering</i> , 2021 , 61-76	0.2	
104	An MPPT Strategy Based on a Surface-Based Polynomial Fitting for Solar Photovoltaic Systems Using Real-Time Hardware. <i>Electronics (Switzerland)</i> , 2021 , 10, 206	2.6	9
103	A Dynamic Programming Approach for Power Curtailment Decision Making on PV Systems. <i>Lecture Notes in Electrical Engineering</i> , 2021 , 77-86	0.2	
102	Analysis of Business Behavior in the Australian Market Under an Approach of Statistical Techniques and Economic Dimensions for Sustainable Business: A Case Study. <i>Lecture Notes in Networks and Systems</i> , 2021 , 595-605	0.5	
101	Demand Forecasting for Textile Products Using Statistical Analysis and Machine Learning Algorithms. <i>Lecture Notes in Computer Science</i> , 2021 , 181-194	0.9	0
100	Environment Monitoring of Rose Crops Greenhouse Based on Autonomous Vehicles with a WSN and Data Analysis. <i>Sensors</i> , 2020 , 20,	3.8	7
99	Intelligent WSN System for Water Quality Analysis Using Machine Learning Algorithms: A Case Study (Tahuando River from Ecuador). <i>Remote Sensing</i> , 2020 , 12, 1988	5	4
98	A New Approach to Supervised Data Analysis in Embedded Systems Environments: A Case Study. <i>Advances in Intelligent Systems and Computing</i> , 2020 , 416-425	0.4	
97	A data set for electric power consumption forecasting based on socio-demographic features: Data from an area of southern Colombia. <i>Data in Brief</i> , 2020 , 29, 105246	1.2	2
96	Forecasting the Consumer Price Index (CPI) of Ecuador: A Comparative Study of Predictive Models. <i>International Journal on Advanced Science, Engineering and Information Technology</i> , 2020 , 10, 1078	1.6	2
95	A Data-Driven Approach for Automatic Classification of Extreme Precipitation Events: Preliminary Results. <i>Communications in Computer and Information Science</i> , 2020 , 197-209	0.3	
94	Inverse Data Visualization Framework (IDVF): Towards a Prior-Knowledge-Driven Data Visualization. <i>Communications in Computer and Information Science</i> , 2020 , 266-280	0.3	
93	A Forecasting Model to Predict the Demand of Roses in an Ecuadorian Small Business Under Uncertain Scenarios. <i>Lecture Notes in Computer Science</i> , 2020 , 245-258	0.9	1
92	Multi-expert Methods Evaluation on Financial and Economic Data: Introducing Bag of Experts. <i>Lecture Notes in Computer Science</i> , 2020 , 437-449	0.9	1
91	A New Approach of Service Platform for Water Optimization in Lettuce Crops Using Wireless Sensor Network. <i>Advances in Intelligent Systems and Computing</i> , 2020 , 1-13	0.4	1
90	Design and Tests to Implement Hyperconvergence into a DataCenter: Preliminary Results. <i>Advances in Intelligent Systems and Computing</i> , 2020 , 54-66	0.4	1
89	Clustering of Reading Ability Performance Variables in the English Language Based on TBL Methodology and Behavior in the Left Hemisphere of the Brain. <i>Communications in Computer and Information Science</i> , 2020 , 77-90	0.3	
88	A Comparison of Machine Learning and Classical Demand Forecasting Methods: A Case Study of Ecuadorian Textile Industry. <i>Lecture Notes in Computer Science</i> , 2020 , 131-142	0.9	3

87	Interactive Visualization Interfaces for Big Data Analysis Using Combination of Dimensionality Reduction Methods: A Brief Review. <i>Advances in Intelligent Systems and Computing</i> , 2020 , 193-203	0.4	2
86	Introducing the Concept of Interaction Model for Interactive Dimensionality Reduction and Data Visualization. <i>Lecture Notes in Computer Science</i> , 2020 , 193-203	0.9	2
85	Artificial Neural Networks for Bottled Water Demand Forecasting: A Small Business Case Study. <i>Lecture Notes in Computer Science</i> , 2019 , 362-373	0.9	4
84	Multivariate Approach to Alcohol Detection in Drivers by Sensors and Artificial Vision. <i>Lecture Notes in Computer Science</i> , 2019 , 234-243	0.9	3
83	Low Resolution Electroencephalographic-Signals-Driven Semantic Retrieval: Preliminary Results. <i>Lecture Notes in Computer Science</i> , 2019 , 333-342	0.9	1
82	Non-generalized Analysis of the Multimodal Signals for Emotion Recognition: Preliminary Results. <i>Lecture Notes in Computer Science</i> , 2019 , 363-373	0.9	
81	Feature Extraction Analysis for Emotion Recognition from ICEEMD of Multimodal Physiological Signals. <i>Lecture Notes in Computer Science</i> , 2019 , 351-362	0.9	
80	Cardiac Murmur Effects on Automatic Segmentation of ECG Signals for Biometric Identification: Preliminary Study. <i>Lecture Notes in Computer Science</i> , 2019 , 269-279	0.9	1
79	Adaptation and Recovery Stages for Case-Based Reasoning Systems Using Bayesian Estimation and Density Estimation with Nearest Neighbors. <i>Lecture Notes in Computer Science</i> , 2019 , 339-350	0.9	
78	Drowsiness Detection in Drivers Through Real-Time Image Processing of the Human Eye. <i>Lecture Notes in Computer Science</i> , 2019 , 626-637	0.9	2
77	Artificial Neural Networks for Urban Water Demand Forecasting: A Case Study. <i>Journal of Physics: Conference Series</i> , 2019 , 1284, 012004	0.3	2
76	Optimization of the Network of Urban Solid Waste Containers: A Case Study. <i>Communications in Computer and Information Science</i> , 2019 , 578-589	0.3	0
75	Method for the Improvement of Knee Angle Accuracy Based on Kinect and IMU: Preliminary Results. <i>Communications in Computer and Information Science</i> , 2019 , 184-199	0.3	0
74	Kernel-Spectral-Clustering-Driven Motion Segmentation: Rotating-Objects First Trials. <i>Communications in Computer and Information Science</i> , 2019 , 30-40	0.3	
73	Optimization of the Master Production Scheduling in a Textile Industry Using Genetic Algorithm. <i>Lecture Notes in Computer Science</i> , 2019 , 674-685	0.9	4
72	Urban Pollution Environmental Monitoring System Using IoT Devices and Data Visualization: A Case Study. <i>Lecture Notes in Computer Science</i> , 2019 , 686-696	0.9	1
71	Exploring the Characterization and Classification of EEG Signals for a Computer-Aided Epilepsy Diagnosis System. <i>Lecture Notes in Computer Science</i> , 2019 , 189-198	0.9	1
70	Intelligence in Embedded Systems: Overview and Applications. <i>Advances in Intelligent Systems and Computing</i> , 2019 , 874-883	0.4	7

69	Intelligent System for Identification of Wheelchair User's Posture Using Machine Learning Techniques. <i>IEEE Sensors Journal</i> , 2019 , 19, 1936-1942	4	12
68	Cardiac Pulse Modeling Using a Modified van der Pol Oscillator and Genetic Algorithms. <i>Lecture Notes in Computer Science</i> , 2018 , 96-106	0.9	1
67	Case-Based Reasoning Systems for Medical Applications with Improved Adaptation and Recovery Stages. <i>Lecture Notes in Computer Science</i> , 2018 , 26-38	0.9	4
66	Low Data Fusion Framework Oriented to Information Quality for BCI Systems. <i>Lecture Notes in Computer Science</i> , 2018 , 289-300	0.9	3
65	Advances in Homotopy Applied to Object Deformation. <i>Lecture Notes in Computer Science</i> , 2018 , 231-242.	0.9	9
64	Computer Vision-Based Method for Automatic Detection of Crop Rows in Potato Fields. <i>Advances in Intelligent Systems and Computing</i> , 2018 , 355-366	0.4	8
63	Fingertips Segmentation of Thermal Images and Its Potential Use in Hand Thermoregulation Analysis. <i>Lecture Notes in Computer Science</i> , 2018 , 455-463	0.9	
62	Optimization of the University Transportation by Contraction Hierarchies Method and Clustering Algorithms. <i>Lecture Notes in Computer Science</i> , 2018 , 95-107	0.9	2
61	Methodology for the design and simulation of industrial facilities and production systems based on a modular approach in an "industry 4.0" context. <i>DYNA (Colombia)</i> , 2018 , 85, 243-252	0.6	2
60	Exploratory Study of the Effects of Cardiac Murmurs on Electrocardiographic-Signal-Based Biometric Systems. <i>Lecture Notes in Computer Science</i> , 2018 , 410-418	0.9	2
59	Generalized Low-Computational Cost Laplacian Eigenmaps. <i>Lecture Notes in Computer Science</i> , 2018 , 661-669	0.9	
58	Sign Language Recognition Based on Intelligent Glove Using Machine Learning Techniques 2018 ,		17
57	Wireless Sensor Networks for Irrigation in Crops Using Multivariate Regression Models 2018 ,		3
56	Air Quality Monitoring Intelligent System Using Machine Learning Techniques 2018 ,		6
55	Movement Identification in EMG Signals Using Machine Learning: A Comparative Study. <i>Lecture Notes in Computer Science</i> , 2018 , 368-375	0.9	
54	Angle-Based Model for Interactive Dimensionality Reduction and Data Visualization. <i>Lecture Notes in Computer Science</i> , 2018 , 149-157	0.9	
53	Electroencephalographic Signals and Emotional States for Tactile Pleasantness Classification. <i>Lecture Notes in Computer Science</i> , 2018 , 309-316	0.9	4
52	Voice Pathology Detection Using Artificial Neural Networks and Support Vector Machines Powered by a Multicriteria Optimization Algorithm. <i>Communications in Computer and Information Science</i> , 2018 , 148-159	0.3	2

51	Physiological Signals Fusion Oriented to Diagnosis - A Review. <i>Communications in Computer and Information Science</i> , 2018 , 1-15	0.3	1
50	Odor Pleasantness Classification from Electroencephalographic Signals and Emotional States. <i>Communications in Computer and Information Science</i> , 2018 , 128-138	0.3	5
49	Exploration of Characterization and Classification Techniques for Movement Identification from EMG Signals: Preliminary Results. <i>Communications in Computer and Information Science</i> , 2018 , 139-149	0.3	
48	Comparative Analysis Between Embedded-Spaces-Based and Kernel-Based Approaches for Interactive Data Representation. <i>Communications in Computer and Information Science</i> , 2018 , 28-38	0.3	
47	Developments on Solutions of the Normalized-Cut-Clustering Problem Without Eigenvectors. <i>Lecture Notes in Computer Science</i> , 2018 , 318-328	0.9	4
46	A Novel Color-Based Data Visualization Approach Using a Circular Interaction Model and Dimensionality Reduction. <i>Lecture Notes in Computer Science</i> , 2018 , 557-567	0.9	2
45	Data Fusion from Multiple Stations for Estimation of PM2.5 in Specific Geographical Location. <i>Lecture Notes in Computer Science</i> , 2017 , 426-433	0.9	
44	Segment Clustering for Holter Recordings Analysis. <i>Lecture Notes in Computer Science</i> , 2017 , 456-463	0.9	
43	Sleep Stages Clustering Using Time and Spectral Features of EEG Signals. <i>Lecture Notes in Computer Science</i> , 2017 , 444-455	0.9	1
42	Data Visualization Using Interactive Dimensionality Reduction and Improved Color-Based Interaction Model. <i>Lecture Notes in Computer Science</i> , 2017 , 289-298	0.9	7
41	Analysis of Motor Imaginary BCI Within Multi-environment Scenarios Using a Mixture of Classifiers. <i>Communications in Computer and Information Science</i> , 2017 , 511-523	0.3	3
40	Two Novel Clustering Performance Measures Based on Coherence and Relative Assignments of Clusters. <i>Communications in Computer and Information Science</i> , 2017 , 792-804	0.3	
39	Comparison Among Physiological Signals for Biometric Identification. <i>Lecture Notes in Computer Science</i> , 2017 , 436-443	0.9	3
38	Automatic Motion Segmentation via a Cumulative Kernel Representation and Spectral Clustering. <i>Lecture Notes in Computer Science</i> , 2017 , 406-414	0.9	1
37	GreenFarm-DM: A tool for analyzing vegetable crops data from a greenhouse using data mining techniques (First trial) 2017 ,		5
36	Elderly fall detection using data classification on a portable embedded system 2017 ,		5
35	Prototype reduction algorithms comparison in nearest neighbor classification for sensor data: Empirical study 2017 ,		10
34	Theoretical developments for interpreting kernel spectral clustering from alternative viewpoints. <i>Advances in Science, Technology and Engineering Systems</i> , 2017 , 2, 1670-1676	0.3	2

33	Interactive Data Visualization Using Dimensionality Reduction and Similarity-Based Representations. <i>Lecture Notes in Computer Science</i> , 2017 , 334-342	0.9	7
32	Interactive Data Visualization Using Dimensionality Reduction and Dissimilarity-Based Representations. <i>Lecture Notes in Computer Science</i> , 2017 , 461-469	0.9	4
31	Multi-labeler Classification Using Kernel Representations and Mixture of Classifiers. <i>Lecture Notes in Computer Science</i> , 2017 , 343-351	0.9	
30	Human Sit Down Position Detection Using Data Classification and Dimensionality Reduction. <i>Advances in Science, Technology and Engineering Systems</i> , 2017 , 2, 749-754	0.3	5
29	Human-sitting-pose detection using data classification and dimensionality reduction 2016 ,		9
28	Interactive visualization methodology of high-dimensional data with a color-based model for dimensionality reduction 2016 ,		5
27	On the Relationship Between Dimensionality Reduction and Spectral Clustering from a Kernel Viewpoint. <i>Advances in Intelligent Systems and Computing</i> , 2016 , 255-264	0.4	
26	Dimensionality reduction for interactive data visualization via a Geo-Desic approach 2016 ,		3
25	Multi-scale similarities in stochastic neighbour embedding: Reducing dimensionality while preserving both local and global structure. <i>Neurocomputing</i> , 2015 , 169, 246-261	5.4	38
24	Effectiveness of morphological and spectral heartbeat characterization on arrhythmia clustering for Holter recordings 2015 ,		1
23	Multiple Kernel Learning for Spectral Dimensionality Reduction. <i>Lecture Notes in Computer Science</i> , 2015 , 626-634	0.9	5
22	2015 ,		1
21	Deforming objects via exponential homotopy: A first approach 2015 ,		1
20	Interactive interface for efficient data visualization via a geometric approach 2015 ,		10
19	Artificial and Natural Intelligence Integration. <i>Advances in Intelligent Systems and Computing</i> , 2015 , 167-173		3
18	On the Spectral Clustering for Dynamic Data. <i>Lecture Notes in Computer Science</i> , 2015 , 148-155	0.9	2
17	Generalized Bonhoeffer-van der Pol oscillator for modelling cardiac pulse: Preliminary results 2015 ,		2
16	Bridging the gap between human knowledge and machine learning. <i>Advances in Distributed Computing and Artificial Intelligence Journal</i> , 2015 , 4, 54-64	0.4	17

15	Automatic Sleep Stages Classification Using EEG Entropy Features and Unsupervised Pattern Analysis Techniques. <i>Entropy</i> , 2014 , 16, 6573-6589	2.8	68
14	2014 ,		17
13	Quadratic Problem Formulation with Linear Constraints for Normalized Cut Clustering. <i>Lecture Notes in Computer Science</i> , 2014 , 408-415	0.9	3
12	Short Review of Dimensionality Reduction Methods Based on Stochastic Neighbour Embedding. <i>Advances in Intelligent Systems and Computing</i> , 2014 , 65-74	0.4	15
11	Kernel spectral clustering for dynamic data using multiple kernel learning 2013 ,		5
10	Novel heuristic search for ventricular arrhythmia detection using normalized cut clustering. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2013 , 2013, 7076-9	0.9	4
9	Kernel Spectral Clustering for Motion Tracking: A First Approach. <i>Lecture Notes in Computer Science</i> , 2013 , 264-273	0.9	3
8	Kernel Spectral Clustering for Dynamic Data. <i>Lecture Notes in Computer Science</i> , 2013 , 238-245	0.9	4
7	Multi-labeler Analysis for Bi-class Problems Based on Soft-Margin Support Vector Machines. <i>Lecture Notes in Computer Science</i> , 2013 , 274-282	0.9	2
6	Unsupervised feature relevance analysis applied to improve ECG heartbeat clustering. <i>Computer Methods and Programs in Biomedicine</i> , 2012 , 108, 250-61	6.9	26
5	Image Segmentation Based on Multi-Kernel Learning and Feature Relevance Analysis. <i>Lecture Notes in Computer Science</i> , 2012 , 501-510	0.9	11
4	Effect of latency on clustering of P300 recordings for ADHD discrimination. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2012 , 2012, 5202-5	0.9	
3	An Improved Multi-Class Spectral Clustering Based on Normalized Cuts. <i>Lecture Notes in Computer Science</i> , 2012 , 130-137	0.9	1
2	Weighted-PCA for unsupervised classification of cardiac arrhythmias. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2010 , 2010, 1906-9	0.9	4
1	Unsupervised feature selection in cardiac arrhythmias analysis. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2009 , 2009, 2571-4	0.9	2