Diego H Peluffo-Ordez

List of Publications by Citations

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	Automatic Sleep Stages Classification Using EEG Entropy Features and Unsupervised Pattern Analysis Techniques. *Entropy*, **2014**, 16, 6573-6589	2.8	68
121	Multi-scale similarities in stochastic neighbour embedding: Reducing dimensionality while preserving both local and global structure. *Neurocomputing*, **2015**, 169, 246-261	5.4	38
120	Unsupervised feature relevance analysis applied to improve ECG heartbeat clustering. *Computer Methods and Programs in Biomedicine*, **2012**, 108, 250-61	6.9	26
119	**2014**,		17
118	Bridging the gap between human knowledge and machine learning. *Advances in Distributed Computing and Artificial Intelligence Journal*, **2015**, 4, 54-64	0.4	17
117	Sign Language Recognition Based on Intelligent Glove Using Machine Learning Techniques **2018**,		17
116	Short Review of Dimensionality Reduction Methods Based on Stochastic Neighbour Embedding. *Advances in Intelligent Systems and Computing*, **2014**, 65-74	0.4	15
115	Intelligent System for Identification of Wheelchair Users Posture Using Machine Learning Techniques. *IEEE Sensors Journal*, **2019**, 19, 1936-1942	4	12
114	Image Segmentation Based on Multi-Kernel Learning and Feature Relevance Analysis. *Lecture Notes in Computer Science*, **2012**, 501-510	0.9	11
113	Prototype reduction algorithms comparison in nearest neighbor classification for sensor data: Empirical study **2017**,		10
112	Interactive interface for efficient data visualization via a geometric approach **2015**,		10
111	Human-sitting-pose detection using data classification and dimensionality reduction **2016**,		9
110	An MPPT Strategy Based on a Surface-Based Polynomial Fitting for Solar Photovoltaic Systems Using Real-Time Hardware. *Electronics (Switzerland)*, **2021**, 10, 206	2.6	9
109	Computer Vision-Based Method for Automatic Detection of Crop Rows in Potato Fields. *Advances in Intelligent Systems and Computing*, **2018**, 355-366	0.4	8
108	Data Visualization Using Interactive Dimensionality Reduction and Improved Color-Based Interaction Model. *Lecture Notes in Computer Science*, **2017**, 289-298	0.9	7
107	Environment Monitoring of Rose Crops Greenhouse Based on Autonomous Vehicles with a WSN and Data Analysis. *Sensors*, **2020**, 20,	3.8	7
106	Interactive Data Visualization Using Dimensionality Reduction and Similarity-Based Representations. *Lecture Notes in Computer Science*, **2017**, 334-342	0.9	7

105	Intelligence in Embedded Systems: Overview and Applications. *Advances in Intelligent Systems and Computing*, **2019**, 874-883	0.4	7
104	Information Quality Assessment for Data Fusion Systems. *Data*, **2021**, 6, 60	2.3	6
103	Air Quality Monitoring Intelligent System Using Machine Learning Techniques **2018**,		6
102	Multiple Kernel Learning for Spectral Dimensionality Reduction. *Lecture Notes in Computer Science*, **2015**, 626-634	0.9	5
101	Interactive visualization methodology of high-dimensional data with a color-based model for dimensionality reduction **2016**,		5
100	GreenFarm-DM: A tool for analyzing vegetable crops data from a greenhouse using data mining techniques (First trial) **2017**,		5
99	Elderly fall detection using data classification on a portable embedded system **2017**,		5
98	Kernel spectral clustering for dynamic data using multiple kernel learning **2013**,		5
97	Human Sit Down Position Detection Using Data Classification and Dimensionality Reduction. *Advances in Science, Technology and Engineering Systems*, **2017**, 2, 749-754	0.3	5
96	Odor Pleasantness Classification from Electroencephalographic Signals and Emotional States. *Communications in Computer and Information Science*, **2018**, 128-138	0.3	5
95	Artificial Neural Networks for Bottled Water Demand Forecasting: A Small Business Case Study. *Lecture Notes in Computer Science*, **2019**, 362-373	0.9	4
94	Intelligent WSN System for Water Quality Analysis Using Machine Learning Algorithms: A Case Study (Tahuando River from Ecuador). *Remote Sensing*, **2020**, 12, 1988	5	4
93	Case-Based Reasoning Systems for Medical Applications with Improved Adaptation and Recovery Stages. *Lecture Notes in Computer Science*, **2018**, 26-38	0.9	4
92	Novel heuristic search for ventricular arrhythmia detection using normalized cut clustering. *Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference*, **2013**, 2013, 7076-9	0.9	4
91	Weighted-PCA for unsupervised classification of cardiac arrhythmias. *Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference*, **2010**, 2010, 1906-9	0.9	4
90	Optimization of the Master Production Scheduling in a Textile Industry Using Genetic Algorithm. *Lecture Notes in Computer Science*, **2019**, 674-685	0.9	4
89	Interactive Data Visualization Using Dimensionality Reduction and Dissimilarity-Based Representations. *Lecture Notes in Computer Science*, **2017**, 461-469	0.9	4
88	Kernel Spectral Clustering for Dynamic Data. *Lecture Notes in Computer Science*, **2013**, 238-245	0.9	4

87	Electroencephalographic Signals and Emotional States for Tactile Pleasantness Classification. *Lecture Notes in Computer Science*, **2018**, 309-316	0.9	4
86	Developments on Solutions of the Normalized-Cut-Clustering Problem Without Eigenvectors. *Lecture Notes in Computer Science*, **2018**, 318-328	0.9	4
85	Multivariate Approach to Alcohol Detection in Drivers by Sensors and Artificial Vision. *Lecture Notes in Computer Science*, **2019**, 234-243	0.9	3
84	Low Data Fusion Framework Oriented to Information Quality for BCI Systems. *Lecture Notes in Computer Science*, **2018**, 289-300	0.9	3
83	Analysis of Motor Imaginary BCI Within Multi-environment Scenarios Using a Mixture of Classifiers. *Communications in Computer and Information Science*, **2017**, 511-523	0.3	3
82	Comparison Among Physiological Signals for Biometric Identification. *Lecture Notes in Computer Science*, **2017**, 436-443	0.9	3
81	Artificial and Natural Intelligence Integration. *Advances in Intelligent Systems and Computing*, **2015**, 167-173	1.1	3
80	Quadratic Problem Formulation with Linear Constraints for Normalized Cut Clustering. *Lecture Notes in Computer Science*, **2014**, 408-415	0.9	3
79	A Comparison of Machine Learning and Classical Demand Forecasting Methods: A Case Study of Ecuadorian Textile Industry. *Lecture Notes in Computer Science*, **2020**, 131-142	0.9	3
78	Kernel Spectral Clustering for Motion Tracking: A First Approach. *Lecture Notes in Computer Science*, **2013**, 264-273	0.9	3
77	Dimensionality reduction for interactive data visualization via a Geo-Desic approach **2016**,		3
76	Wireless Sensor Networks for Irrigation in Crops Using Multivariate Regression Models **2018**,		3
75	Drowsiness Detection in Drivers Through Real-Time Image Processing of the Human Eye. *Lecture Notes in Computer Science*, **2019**, 626-637	0.9	2
74	A data set for electric power consumption forecasting based on socio-demographic features: Data from an area of southern Colombia. *Data in Brief*, **2020**, 29, 105246	1.2	2
73	Optimization of the University Transportation by Contraction Hierarchies Method and Clustering Algorithms. *Lecture Notes in Computer Science*, **2018**, 95-107	0.9	2
72	Artificial Neural Networks for Urban Water Demand Forecasting: A Case Study. *Journal of Physics: Conference Series*, **2019**, 1284, 012004	0.3	2
71	On the Spectral Clustering for Dynamic Data. *Lecture Notes in Computer Science*, **2015**, 148-155	0.9	2
70	Generalized Bonhoeffer-van der Pol oscillator for modelling cardiac pulse: Preliminary results **2015**,		2

69	Unsupervised feature selection in cardiac arrhythmias analysis. *Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference*, **2009**, 2009, 2571-4	0.9	2
68	Forecasting the Consumer Price Index (CPI) of Ecuador: A Comparative Study of Predictive Models. *International Journal on Advanced Science, Engineering and Information Technology*, **2020**, 10, 1078	1.6	2
67	Theoretical developments for interpreting kernel spectral clustering from alternative viewpoints. *Advances in Science, Technology and Engineering Systems*, **2017**, 2, 1670-1676	0.3	2
66	Multi-labeler Analysis for Bi-class Problems Based on Soft-Margin Support Vector Machines. *Lecture Notes in Computer Science*, **2013**, 274-282	0.9	2
65	Interactive Visualization Interfaces for Big Data Analysis Using Combination of Dimensionality Reduction Methods: A Brief Review. *Advances in Intelligent Systems and Computing*, **2020**, 193-203	0.4	2
64	Introducing the Concept of Interaction Model for Interactive Dimensionality Reduction and Data Visualization. *Lecture Notes in Computer Science*, **2020**, 193-203	0.9	2
63	Enhanced Convolutional-Neural-Network Architecture for Crop Classification. *Applied Sciences (Switzerland)*, **2021**, 11, 4292	2.6	2
62	Methodology for the design and simulation of industrial facilities and production systems based on a modular approach in an "industry 4.0" context. *DYNA (Colombia)*, **2018**, 85, 243-252	0.6	2
61	Exploratory Study of the Effects of Cardiac Murmurs on Electrocardiographic-Signal-Based Biometric Systems. *Lecture Notes in Computer Science*, **2018**, 410-418	0.9	2
60	Voice Pathology Detection Using Artificial Neural Networks and Support Vector Machines Powered by a Multicriteria Optimization Algorithm. *Communications in Computer and Information Science*, **2018**, 148-159	0.3	2
59	A Novel Color-Based Data Visualization Approach Using a Circular Interaction Model and Dimensionality Reduction. *Lecture Notes in Computer Science*, **2018**, 557-567	0.9	2
58	Hybrid Embedded-Systems-Based Approach to in-Driver Drunk Status Detection Using Image Processing and Sensor Networks. *IEEE Sensors Journal*, **2021**, 21, 15729-15740	4	2
57	Parkinson's Disease Diagnosis Through Electroencephalographic Signal Processing and Sub-optimal Feature Extraction. *Lecture Notes in Networks and Systems*, **2022**, 118-127	0.5	2
56	ECG-Based Heartbeat Classification for Arrhythmia Detection Using Artificial Neural Networks. *Lecture Notes in Computer Science*, **2022**, 247-259	0.9	2
55	Sleep Stages Clustering Using Time and Spectral Features of EEG Signals. *Lecture Notes in Computer Science*, **2017**, 444-455	0.9	1
54	Low Resolution Electroencephalographic-Signals-Driven Semantic Retrieval: Preliminary Results. *Lecture Notes in Computer Science*, **2019**, 333-342	0.9	1
53	Cardiac Murmur Effects on Automatic Segmentation of ECG Signals for Biometric Identification: Preliminary Study. *Lecture Notes in Computer Science*, **2019**, 269-279	0.9	1
52	Effectiveness of morphological and spectral heartbeat characterization on arrhythmia clustering for Holter recordings **2015**,		1

51	Cardiac Pulse Modeling Using a Modified van der Pol Oscillator and Genetic Algorithms. *Lecture Notes in Computer Science*, **2018**, 96-106	0.9	1
50	Automatic Motion Segmentation via a Cumulative Kernel Representation and Spectral Clustering. *Lecture Notes in Computer Science*, **2017**, 406-414	0.9	1
49	**2015**,		1
48	Deforming objects via exponential homotopy: A first approach **2015**,		1
47	A Forecasting Model to Predict the Demand of Roses in an Ecuadorian Small Business Under Uncertain Scenarios. *Lecture Notes in Computer Science*, **2020**, 245-258	0.9	1
46	Multi-expert Methods Evaluation on Financial and Economic Data: Introducing Bag of Experts. *Lecture Notes in Computer Science*, **2020**, 437-449	0.9	1
45	. *IEEE Access*, **2021**, 9, 152206-152225	3.5	1
44	A New Approach of Service Platform for Water Optimization in Lettuce Crops Using Wireless Sensor Network. *Advances in Intelligent Systems and Computing*, **2020**, 1-13	0.4	1
43	Design and Tests to Implement Hyperconvergence into a DataCenter: Preliminary Results. *Advances in Intelligent Systems and Computing*, **2020**, 54-66	0.4	1
42	A Fast-Tracking Hybrid MPPT Based on Surface-Based Polynomial Fitting and P&O Methods for Solar PV under Partial Shaded Conditions. *Mathematics*, **2021**, 9, 2732	2.3	1
41	Urban Pollution Environmental Monitoring System Using IoT Devices and Data Visualization: A Case Study. *Lecture Notes in Computer Science*, **2019**, 686-696	0.9	1
40	An Improved Multi-Class Spectral Clustering Based on Normalized Cuts. *Lecture Notes in Computer Science*, **2012**, 130-137	0.9	1
39	Addressing the Data Acquisition Paradigm in the Early Detection of Pediatric Foot Deformities. *Sensors*, **2021**, 21,	3.8	1
38	Exploring the Characterization and Classification of EEG Signals for a Computer-Aided Epilepsy Diagnosis System. *Lecture Notes in Computer Science*, **2019**, 189-198	0.9	1
37	Algorithms Air Quality Estimation: A Comparative Study of Stochastic and Heuristic Predictive Models. *Lecture Notes in Computer Science*, **2021**, 293-304	0.9	1
36	Physiological Signals Fusion Oriented to Diagnosis - A Review. *Communications in Computer and Information Science*, **2018**, 1-15	0.3	1
35	A New Data-Preprocessing-Related Taxonomy of Sensors for IoT Applications. *Information (Switzerland)*, **2022**, 13, 241	2.6	1
34	Classification of Subjects with Parkinsons Disease using Finger Tapping Dataset. *IFAC-PapersOnLine*, **2021**, 54, 376-381	0.7	0

33	Optimization of the Network of Urban Solid Waste Containers: A Case Study. *Communications in Computer and Information Science*, **2019**, 578-589	0.3	0
32	Method for the Improvement of Knee Angle Accuracy Based on Kinect and IMU: Preliminary Results. *Communications in Computer and Information Science*, **2019**, 184-199	0.3	0
31	Demand Forecasting for Textile Products Using Statistical Analysis and Machine Learning Algorithms. *Lecture Notes in Computer Science*, **2021**, 181-194	0.9	0
30	Data Fusion from Multiple Stations for Estimation of PM2.5 in Specific Geographical Location. *Lecture Notes in Computer Science*, **2017**, 426-433	0.9	
29	Segment Clustering for Holter Recordings Analysis. *Lecture Notes in Computer Science*, **2017**, 456-463	0.9	
28	Non-generalized Analysis of the Multimodal Signals for Emotion Recognition: Preliminary Results. *Lecture Notes in Computer Science*, **2019**, 363-373	0.9	
27	Feature Extraction Analysis for Emotion Recognition from ICEEMD of Multimodal Physiological Signals. *Lecture Notes in Computer Science*, **2019**, 351-362	0.9	
26	Adaptation and Recovery Stages for Case-Based Reasoning Systems Using Bayesian Estimation and Density Estimation with Nearest Neighbors. *Lecture Notes in Computer Science*, **2019**, 339-350	0.9	
25	A New Approach to Supervised Data Analysis in Embedded Systems Environments: A Case Study. *Advances in Intelligent Systems and Computing*, **2020**, 416-425	0.4	
24	Advances in Homotopy Applied to Object Deformation. *Lecture Notes in Computer Science*, **2018**, 231-242	0.9	
23	On the Relationship Between Dimensionality Reduction and Spectral Clustering from a Kernel Viewpoint. *Advances in Intelligent Systems and Computing*, **2016**, 255-264	0.4	
22	Fingertips Segmentation of Thermal Images and Its Potential Use in Hand Thermoregulation Analysis. *Lecture Notes in Computer Science*, **2018**, 455-463	0.9	
21	Two Novel Clustering Performance Measures Based on Coherence and Relative Assignments of Clusters. *Communications in Computer and Information Science*, **2017**, 792-804	0.3	
20	Effect of latency on clustering of P300 recordings for ADHD discrimination. *Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference*, **2012**, 2012, 5202-5	0.9	
19	Sign Language Recognition Using Leap Motion Based on Time-Frequency Characterization and Conventional Machine Learning Techniques. *Communications in Computer and Information Science*, **2021**, 55-67	0.3	
18	A Data-Driven Approach for Automatic Classification of Extreme Precipitation Events: Preliminary Results. *Communications in Computer and Information Science*, **2020**, 197-209	0.3	
17	Inverse Data Visualization Framework (IDVF): Towards a Prior-Knowledge-Driven Data Visualization. *Communications in Computer and Information Science*, **2020**, 266-280	0.3	
16	Kernel-Spectral-Clustering-Driven Motion Segmentation: Rotating-Objects First Trials. *Communications in Computer and Information Science*, **2019**, 30-40	0.3	

15	Clustering of Reading Ability Performance Variables in the English Language Based on TBL Methodology and Behavior in the Left Hemisphere of the Brain. *Communications in Computer and Information Science*, **2020**, 77-90	0.3
14	Multi-labeler Classification Using Kernel Representations and Mixture of Classifiers. *Lecture Notes in Computer Science*, **2017**, 343-351	0.9
13	Unsupervised Barter Model Based on Natural Human Interaction. *Communications in Computer and Information Science*, **2021**, 387-400	0.3
12	Generalized Spectral Dimensionality Reduction Based on Kernel Representations and Principal Component Analysis. *Lecture Notes in Computer Science*, **2021**, 512-523	0.9
11	A Brief Review on Instance Selection Based on Condensed Nearest Neighbors for Data Classification Tasks. *Lecture Notes in Electrical Engineering*, **2021**, 313-324	0.2
10	Generalized Low-Computational Cost Laplacian Eigenmaps. *Lecture Notes in Computer Science*, **2018**, 661-669	0.9
9	Movement Identification in EMG Signals Using Machine Learning: A Comparative Study. *Lecture Notes in Computer Science*, **2018**, 368-375	0.9
8	Angle-Based Model for Interactive Dimensionality Reduction and Data Visualization. *Lecture Notes in Computer Science*, **2018**, 149-157	0.9
7	Exploration of Characterization and Classification Techniques for Movement Identification from EMG Signals: Preliminary Results. *Communications in Computer and Information Science*, **2018**, 139-149	0.3
6	Comparative Analysis Between Embedded-Spaces-Based and Kernel-Based Approaches for Interactive Data Representation. *Communications in Computer and Information Science*, **2018**, 28-38	0.3
5	Integrating Information Visualization and Dimensionality Reduction: A pathway to Bridge the Gap between Natural and Artificial Intelligence. *Tecno Lógicas*, **2021**, 24, e2108	0.6
4	Information fusion and information quality assessment for environmental forecasting. *Urban Climate*, **2021**, 39, 100960	6.8
3	An Interactive Framework to Compare Multi-criteria Optimization Algorithms: Preliminary Results on NSGA-II and MOPSO. *Lecture Notes in Electrical Engineering*, **2021**, 61-76	0.2
2	A Dynamic Programming Approach for Power Curtailment Decision Making on PV Systems. *Lecture Notes in Electrical Engineering*, **2021**, 77-86	0.2
1	Analysis of Business Behavior in the Australian Market Under an Approach of Statistical Techniques and Economic Dimensions for Sustainable Business: A Case Study. *Lecture Notes in Networks and Systems*, **2021**, 595-605	0.5