

Luciano Sanchez

List of Publications by Year in Descending Order

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Version: 2024-04-25

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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.

134
papers

2,540
citations

23
h-index

48
g-index

151
ext. papers

2,980
ext. citations

3.5
avg. IF

5.07
L-index

#	Paper	IF	Citations
134	Analysis of Students' Online Interactions in the Covid Era from the Perspective of Anomaly Detection. <i>Advances in Intelligent Systems and Computing</i> , 2022 , 305-314	0.4	1
133	Variational encoding approach for interpretable assessment of remaining useful life estimation. <i>Reliability Engineering and System Safety</i> , 2022 , 222, 108353	6.3	7
132	RUL-RVE: Interpretable assessment of Remaining Useful Life. <i>Software Impacts</i> , 2022 , 13, 100321	1.8	
131	Informed Weak Supervision for Battery Deterioration Level Labeling. <i>Communications in Computer and Information Science</i> , 2022 , 748-760	0.3	
130	Artificial Intelligence Applied to Evaluate Emissions and Energy Consumption in Commuter Railways: Comparison of Liquefied Natural Gas as an Alternative Fuel to Diesel. <i>Sustainability</i> , 2021 , 13, 7112	3.6	2
129	Ex-post correction of pacemaker mode switch episodes in undersensed atrial fibrillation. <i>Computers in Biology and Medicine</i> , 2021 , 134, 104480	7	
128	The Null Space of Fuzzy Inclusion Measures. <i>IEEE Transactions on Fuzzy Systems</i> , 2021 , 29, 641-648	8.3	
127	Semi-Supervised Recurrent Variational Autoencoder Approach for Visual Diagnosis of Atrial Fibrillation. <i>IEEE Access</i> , 2021 , 9, 40227-40239	3.5	3
126	Assessment of the running resistance of a diesel passenger train using evolutionary bilevel algorithms and operational data. <i>Engineering Applications of Artificial Intelligence</i> , 2021 , 105, 104405	7.2	2
125	Remaining Useful Life Estimation Using a Recurrent Variational Autoencoder. <i>Lecture Notes in Computer Science</i> , 2021 , 53-64	0.9	
124	Identification of Li-ion battery models through monotonic echo serial networks for coarse data. <i>Logic Journal of the IGPL</i> , 2020 , 28, 109-120	1	
123	Health Monitoring of Automotive Batteries in Fast-Charging Conditions Through a Fuzzy Model of the Incremental Capacity. <i>Studies in Computational Intelligence</i> , 2020 , 155-164	0.8	
122	Graphical Analysis of the Progression of Atrial Arrhythmia Using Recurrent Neural Networks. <i>International Journal of Computational Intelligence Systems</i> , 2020 , 13, 1567	3.4	2
121	Health assessment of LFP automotive batteries using a fractional-order neural network. <i>Neurocomputing</i> , 2020 , 391, 345-354	5.4	11
120	Multi-Objective Evolutionary Design of an Electric Vehicle Chassis. <i>Sensors</i> , 2020 , 20,	3.8	7
119	Online Estimation of the State of Health of a Rechargeable Battery Through Distal Learning of a Fuzzy Model. <i>Advances in Intelligent Systems and Computing</i> , 2020 , 68-77	0.4	
118	A note on Similarity and dissimilarity measures between fuzzy sets: A formal relational study and Additive similarity and dissimilarity measures. <i>Fuzzy Sets and Systems</i> , 2020 , 390, 183-187	3.7	2

117	A Unified View of Different Axiomatic Measures Defined on \mathcal{L} -Fuzzy Sets. <i>IEEE Transactions on Fuzzy Systems</i> , 2020 , 28, 1878-1886	8.3	1
116	Learning human-understandable models for the health assessment of Li-ion batteries via Multi-Objective Genetic Programming. <i>Engineering Applications of Artificial Intelligence</i> , 2019 , 86, 1-10	7.2	5
115	Eco-Efficient Resource Management in HPC Clusters through Computer Intelligence Techniques. <i>Energies</i> , 2019 , 12, 2129	3.1	1
114	Lithium-Ion Battery Degradation Indicators Via Incremental Capacity Analysis. <i>IEEE Transactions on Industry Applications</i> , 2019 , 55, 2992-3002	4.3	50
113	Improving the energy efficiency of virtual data centers in an IT service provider through proactive fuzzy rules-based multicriteria decision making. <i>Journal of Supercomputing</i> , 2019 , 75, 1078-1093	2.5	3
112	A framework for learning fuzzy rule-based models with epistemic set-valued data and generalized loss functions. <i>International Journal of Approximate Reasoning</i> , 2018 , 92, 321-339	3.6	3
111	Health Assessment of Automotive Batteries Through Computational Intelligence-Based Soft Sensors: An Empirical Study. <i>Advances in Intelligent Systems and Computing</i> , 2018 , 47-56	0.4	1
110	Graphical Exploratory Analysis of Fuzzy Data as a Teaching Tool. <i>Studies in Systems, Decision and Control</i> , 2018 , 565-574	0.8	
109	Detection of Cardiac Arrhythmias Through Singular Spectrum Analysis of a Time-Distorted EGM Signal. <i>Advances in Intelligent Systems and Computing</i> , 2018 , 137-146	0.4	0
108	Additive similarity and dissimilarity measures. <i>Fuzzy Sets and Systems</i> , 2017 , 322, 35-53	3.7	12
107	A Model-Based Virtual Sensor for Condition Monitoring of Li-Ion Batteries in Cyber-Physical Vehicle Systems. <i>Journal of Sensors</i> , 2017 , 2017, 1-12	2	10
106	Assessing the Health of LiFePO ₄ Traction Batteries through Monotonic Echo State Networks. <i>Sensors</i> , 2017 , 18,	3.8	7
105	Energy-conscious fuzzy rule-based classifiers for battery operated embedded devices 2017 ,		2
104	Hyper-parameter selection in deep neural networks using parallel particle swarm optimization 2017 ,		34
103	A class of Monotone Fuzzy rule-based Wiener systems with an application to Li-ion battery modelling. <i>Engineering Applications of Artificial Intelligence</i> , 2017 , 64, 367-377	7.2	9
102	Multicriteria Design of Cost-Conscious Fuzzy Rule-Based Classifiers. <i>International Journal of Uncertainty, Fuzziness and Knowledge-Based Systems</i> , 2017 , 25, 141-159	0.8	1
101	KEEL 3.0: An Open Source Software for Multi-Stage Analysis in Data Mining. <i>International Journal of Computational Intelligence Systems</i> , 2017 , 10, 1238	3.4	122
100	Genetic Fuzzy Modelling of Li-Ion Batteries Through a Combination of Theta-DEA and Knowledge-Based Preference Ordering. <i>Lecture Notes in Computer Science</i> , 2016 , 310-320	0.9	

99	Finding informative code metrics under uncertainty for predicting the pass rate of online courses. <i>Information Sciences</i> , 2016 , 373, 42-56	7.7	6
98	Battery diagnosis for electrical vehicles through semi-physical fuzzy models 2016 ,		2
97	Machine learning models, epistemic set-valued data and generalized loss functions: An encompassing approach. <i>Information Sciences</i> , 2016 , 358-359, 129-150	7.7	14
96	An extension of the FURIA classification algorithm to low quality data through fuzzy rankings and its application to the early diagnosis of dyslexia. <i>Neurocomputing</i> , 2016 , 176, 60-71	5.4	13
95	Leveraging a predictive model of the workload for intelligent slot allocation schemes in energy-efficient HPC clusters. <i>Engineering Applications of Artificial Intelligence</i> , 2016 , 48, 95-105	7.2	8
94	Assessment of Multi-Objective Optimization Algorithms for Parametric Identification of a Li-Ion Battery Model. <i>Lecture Notes in Computer Science</i> , 2016 , 250-260	0.9	
93	Improving the Eco-Efficiency of High Performance Computing Clusters Using EECluster. <i>Energies</i> , 2016 , 9, 197	3.1	5
92	RKEEL: Using KEEL in R code 2016 ,		2
91	A Variable Effective Capacity Model for LiFePO_4 Traction Batteries Using Computational Intelligence Techniques. <i>IEEE Transactions on Industrial Electronics</i> , 2015 , 62, 555-563	8.9	16
90	Energy-efficient allocation of computing node slots in HPC clusters through parameter learning and hybrid genetic fuzzy system modeling. <i>Journal of Supercomputing</i> , 2015 , 71, 1163-1174	2.5	12
89	Local iterative DLT soft-computing vs. interval-valued stereo calibration and triangulation with uncertainty bounding in 3D reconstruction. <i>Neurocomputing</i> , 2015 , 167, 44-51	5.4	6
88	Genetic learning of the membership functions for mining fuzzy association rules from low quality data. <i>Information Sciences</i> , 2015 , 295, 358-378	7.7	25
87	The behavioral meaning of the median. <i>Information Sciences</i> , 2015 , 294, 127-138	7.7	5
86	A software tool to efficiently manage the energy consumption of HPC clusters 2015 ,		5
85	Effect of crossbreeding with Limousine, Rubia Gallega and Belgium Blue on meat quality and fatty acid profile of Holstein calves. <i>Animal Science Journal</i> , 2015 , 86, 913-21	1.8	12
84	Sequential pattern mining applied to aeroengine condition monitoring with uncertain health data. <i>Engineering Applications of Artificial Intelligence</i> , 2015 , 44, 10-24	7.2	8
83	Energy-Efficient Sound Environment Classifier for Hearing Aids Based on Multi-objective Simulated Annealing Programming. <i>Advances in Intelligent Systems and Computing</i> , 2015 , 261-270	0.4	
82	An Equivalent Circuit Model With Variable Effective Capacity for LiFePO_4 Batteries. <i>IEEE Transactions on Vehicular Technology</i> , 2014 , 63, 3592-3599	6.8	25

81	Supervising classrooms comprising children with dyslexia and other learning problems with graphical exploratory analysis for fuzzy data: Presentation of the software tool and case study 2014 ,		1
80	Cost-Sensitive Learning of Fuzzy Rules for Imbalanced Classification Problems Using FURIA. <i>International Journal of Uncertainty, Fuzziness and Knowledge-Based Systems</i> , 2014 , 22, 643-675	0.8	8
79	A design methodology for semi-physical fuzzy models applied to the dynamic characterization of LiFePO4 batteries. <i>Applied Soft Computing Journal</i> , 2014 , 14, 269-288	7.5	22
78	A procedure for extending input selection algorithms to low quality data in modelling problems with application to the automatic grading of uploaded assignments. <i>Scientific World Journal, The</i> , 2014 , 2014, 468405	2.2	1
77	Online SOC Estimation of Li-FePO4 Batteries through a New Fuzzy Rule-Based Recursive Filter with Feedback of the Heat Flow Rate 2014 ,		2
76	Random Fuzzy Sets as Ill-Perceived Random Variables. <i>SpringerBriefs in Applied Sciences and Technology</i> , 2014 , 47-88	0.4	
75	Aeroengine prognosis through genetic distal learning applied to uncertain Engine Health Monitoring data 2014 ,		3
74	Comments on Learning from imprecise and fuzzy observations: Data disambiguation through generalized loss minimization by Eyke Hüllermeier. <i>International Journal of Approximate Reasoning</i> , 2014 , 55, 1583-1587	3.6	2
73	The notion of roughness of a fuzzy set. <i>Fuzzy Sets and Systems</i> , 2014 , 249, 114-127	3.7	1
72	Bootstrap analysis of multiple repetitions of experiments using an interval-valued multiple comparison procedure. <i>Journal of Computer and System Sciences</i> , 2014 , 80, 88-100	1	8
71	Random Sets and Random Fuzzy Sets as Ill-Perceived Random Variables. <i>SpringerBriefs in Applied Sciences and Technology</i> , 2014 ,	0.4	27
70	Selecting the Most Informative Inputs in Modelling Problems with Vague Data Applied to the Search of Informative Code Metrics for Continuous Assessment in Computer Science Online Courses. <i>Lecture Notes in Computer Science</i> , 2014 , 299-308	0.9	1
69	Random Sets as Ill-Perceived Random Variables. <i>SpringerBriefs in Applied Sciences and Technology</i> , 2014 , 7-45	0.4	
68	Local Iterative DLT for Interval-Valued Stereo Calibration and Triangulation Uncertainty Bounding in 3D Biological Form Reconstruction. <i>Advances in Intelligent Systems and Computing</i> , 2014 , 309-318	0.4	
67	A Genetic Fuzzy Linguistic Combination Method for Fuzzy Rule-Based Multiclassifiers. <i>IEEE Transactions on Fuzzy Systems</i> , 2013 , 21, 950-965	8.3	29
66	CI-LQD: A software tool for modeling and decision making with Low Quality Data 2013 ,		2
65	Multiobjective genetic classifier selection for random oracles fuzzy rule-based classifier ensembles: How beneficial is the additional diversity?. <i>Knowledge-Based Systems</i> , 2013 , 54, 3-21	7.3	19
64	A methodology for exploiting the tolerance for imprecision in genetic fuzzy systems and its application to characterization of rotor blade leading edge materials. <i>Mechanical Systems and Signal Processing</i> , 2013 , 37, 76-91	7.8	1

63	Similarity and dissimilarity measures between fuzzy sets: A formal relational study. <i>Information Sciences</i> , 2013 , 229, 122-141	7.7	52
62	Boosting fuzzy rules with low quality data in multi-class problems: Open problems and challenges 2013 ,		1
61	Engine Health Monitoring for engine fleets using fuzzy radviz 2013 ,		6
60	An Extension of the FURIA Classification Algorithm to Low Quality Data. <i>Lecture Notes in Computer Science</i> , 2013 , 679-688	0.9	3
59	Eliciting a human understandable model of ice adhesion strength for rotor blade leading edge materials from uncertain experimental data. <i>Expert Systems With Applications</i> , 2012 , 39, 10212-10225	7.8	9
58	Singular spectral analysis of ill-known signals and its application to predictive maintenance of windmills with SCADA records. <i>Soft Computing</i> , 2012 , 16, 755-768	3.5	2
57	Equalizing imbalanced imprecise datasets for genetic fuzzy classifiers. <i>International Journal of Computational Intelligence Systems</i> , 2012 , 5, 276-296	3.4	6
56	COMBINING ADABOOST WITH PREPROCESSING ALGORITHMS FOR EXTRACTING FUZZY RULES FROM LOW QUALITY DATA IN POSSIBLY IMBALANCED PROBLEMS. <i>International Journal of Uncertainty, Fuzziness and Knowledge-Based Systems</i> , 2012 , 20, 51-71	0.8	4
55	Inner and outer fuzzy approximations of confidence intervals. <i>Fuzzy Sets and Systems</i> , 2011 , 184, 68-83	3.7	5
54	Obtaining fuzzy rules from interval-censored data with genetic algorithms and a random sets-based semantic of the linguistic labels. <i>Soft Computing</i> , 2011 , 15, 1945-1957	3.5	2
53	Upper and lower probabilities induced by a fuzzy random variable. <i>Fuzzy Sets and Systems</i> , 2011 , 165, 1-23	3.7	31
52	Mark-recapture techniques in statistical tests for imprecise data. <i>International Journal of Approximate Reasoning</i> , 2011 , 52, 240-260	3.6	14
51	Linguistic cost-sensitive learning of genetic fuzzy classifiers for imprecise data. <i>International Journal of Approximate Reasoning</i> , 2011 , 52, 841-862	3.6	13
50	Preprocessing vague imbalanced datasets and its use in genetic fuzzy classifiers 2010 ,		4
49	Introducing a genetic fuzzy linguistic combination method for bagging fuzzy rule-based multiclassification systems 2010 ,		1
48	Taximeter verification with GPS and soft computing techniques. <i>Soft Computing</i> , 2010 , 14, 405-418	3.5	8
47	Diagnosis of dyslexia with low quality data with genetic fuzzy systems. <i>International Journal of Approximate Reasoning</i> , 2010 , 51, 993-1009	3.6	35
46	The Behavioral Meaning of the Median. <i>Advances in Intelligent and Soft Computing</i> , 2010 , 115-122		3

45	Graphical Exploratory Analysis of Educational Knowledge Surveys with Missing and Conflicting Answers Using Evolutionary Techniques. <i>Lecture Notes in Computer Science</i> , 2010 , 45-52	0.9	
44	Expected Pair-Wise Comparison of the Outcomes of a Fuzzy Random Variable. <i>Advances in Intelligent and Soft Computing</i> , 2010 , 105-113		
43	Measurement of Ground-Neutral Currents in Three Phase Transformers Using a Genetically Evolved Shaping Filter. <i>Communications in Computer and Information Science</i> , 2010 , 731-740	0.3	
42	KEEL: a software tool to assess evolutionary algorithms for data mining problems. <i>Soft Computing</i> , 2009 , 13, 307-318	3.5	896
41	Obtaining linguistic fuzzy rule-based regression models from imprecise data with multiobjective genetic algorithms. <i>Soft Computing</i> , 2009 , 13, 467-479	3.5	25
40	Taximeter verification using imprecise data from GPS. <i>Engineering Applications of Artificial Intelligence</i> , 2009 , 22, 250-260	7.2	8
39	Extending a simple genetic cooperative-competitive learning fuzzy classifier to low quality datasets. <i>Evolutionary Intelligence</i> , 2009 , 2, 73-84	1.7	21
38	Genetic learning of fuzzy rules based on low quality data. <i>Fuzzy Sets and Systems</i> , 2009 , 160, 2524-2552	3.7	74
37	A Minimum-Risk Genetic Fuzzy Classifier Based on Low Quality Data. <i>Lecture Notes in Computer Science</i> , 2009 , 654-661	0.9	3
36	GFS-Based Analysis of Vague Databases in High Performance Athletics. <i>Lecture Notes in Computer Science</i> , 2009 , 602-609	0.9	
35	On the Use of Bagging, Mutual Information-Based Feature Selection and Multicriteria Genetic Algorithms to Design Fuzzy Rule-Based Classification Ensembles 2008 ,		4
34	KEEL: A data mining software tool integrating genetic fuzzy systems 2008 ,		8
33	A first study on bagging fuzzy rule-based classification systems with multicriteria genetic selection of the component classifiers 2008 ,		8
32	Fuzzy-genetic optimization of the parameters of a low cost system for the optical measurement of several dimensions of vehicles. <i>Soft Computing</i> , 2008 , 12, 751-764	3.5	7
31	Obtaining transparent models of chaotic systems with multi-objective simulated annealing algorithms. <i>Information Sciences</i> , 2008 , 178, 952-970	7.7	22
30	Higher order models for fuzzy random variables. <i>Fuzzy Sets and Systems</i> , 2008 , 159, 237-258	3.7	59
29	Mutual information-based feature selection and partition design in fuzzy rule-based classifiers from vague data. <i>International Journal of Approximate Reasoning</i> , 2008 , 49, 607-622	3.6	39
28	Multiobjective Evolutionary Search of Difference Equations-based Models for Understanding Chaotic Systems. <i>Mathematical Modelling: Theory and Applications</i> , 2008 , 181-201		

27	Defuzzification of Fuzzy p-Values. <i>Advances in Soft Computing</i> , 2008 , 126-132		6
26	A Minimum Risk Wrapper Algorithm for Genetically Selecting Imprecisely Observed Features, Applied to the Early Diagnosis of Dyslexia. <i>Lecture Notes in Computer Science</i> , 2008 , 608-615	0.9	1
25	Boosting fuzzy rules in classification problems under single-winner inference. <i>International Journal of Intelligent Systems</i> , 2007 , 22, 1021-1034	8.4	26
24	Advocating the Use of Imprecisely Observed Data in Genetic Fuzzy Systems. <i>IEEE Transactions on Fuzzy Systems</i> , 2007 , 15, 551-562	8.3	53
23	Learning Fuzzy Linguistic Models from Low Quality Data by Genetic Algorithms. <i>IEEE International Conference on Fuzzy Systems</i> , 2007 ,		8
22	Modeling Vague Data with Genetic Fuzzy Systems under a Combination of Crisp and Imprecise Criteria 2007 ,		27
21	Some Results about Mutual Information-based Feature Selection and Fuzzy Discretization of Vague Data. <i>IEEE International Conference on Fuzzy Systems</i> , 2007 ,		6
20	Knowledge Extraction from Fuzzy Data for Estimating Consumer Behavior Models 2006 ,		7
19	Longest path estimation from inherently fuzzy data acquired with GPS using genetic algorithms 2006 ,		7
18	A Multiobjective Genetic Fuzzy System with Imprecise Probability Fitness for Vague Data 2006 ,		9
17	Induction of descriptive fuzzy classifiers with the Logitboost algorithm. <i>Soft Computing</i> , 2006 , 10, 825-835		53
16	Genetic Algorithms for Estimating Longest Path from Inherently Fuzzy Data Acquired with GPS. <i>Lecture Notes in Computer Science</i> , 2006 , 232-240	0.9	
15	Supply Estimation Using Coevolutionary Genetic Algorithms in the Spanish Electrical Market. <i>Applied Intelligence</i> , 2004 , 21, 7-24	4.9	6
14	A fast genetic method for inducing descriptive fuzzy models. <i>Fuzzy Sets and Systems</i> , 2004 , 141, 33-46	3.7	9
13	Imprecise distribution function associated to a random set. <i>Information Sciences</i> , 2004 , 159, 109-123	7.7	19
12	Induction of fuzzy-rule-based classifiers with evolutionary boosting algorithms. <i>IEEE Transactions on Fuzzy Systems</i> , 2004 , 12, 296-308	8.3	85
11	3D motion estimation of bubbles of gas in fluid glass, using an optical flow gradient technique extended to a third dimension. <i>Machine Vision and Applications</i> , 2003 , 14, 185-191	2.8	1
10	Tuning fuzzy partitions or assigning weights to fuzzy rules: which is better?. <i>Studies in Fuzziness and Soft Computing</i> , 2003 , 366-385	0.7	

9	Optimizing supply strategies in the Spanish Electrical Market. <i>Lecture Notes in Computer Science</i> , 2003 , 353-360	0.9	1
8	Some relationships between fuzzy and random set-based classifiers and models. <i>International Journal of Approximate Reasoning</i> , 2002 , 29, 175-213	3.6	20
7	Combining GP operators with SA search to evolve fuzzy rule based classifiers. <i>Information Sciences</i> , 2001 , 136, 175-191	7.7	87
6	Interval-valued GA-P algorithms. <i>IEEE Transactions on Evolutionary Computation</i> , 2000 , 4, 64-72	15.6	23
5	Fuzzy random variables-based modeling with GA-P algorithms 2000 , 245-256		12
4	Solving Electrical Distribution Problems Using Hybrid Evolutionary Data Analysis Techniques. <i>Applied Intelligence</i> , 1999 , 10, 5-24	4.9	74
3	Evolving Fuzzy Rule Based Classifiers with GA-P: A Grammatical Approach. <i>Lecture Notes in Computer Science</i> , 1999 , 203-210	0.9	7
2	A random sets-based method for identifying fuzzy models. <i>Fuzzy Sets and Systems</i> , 1998 , 98, 343-354	3.7	19
1	An evolutionary algorithm for the off-line data driven generation of fuzzy controllers for intelligent buildings		5