

InÃ©s Couso Blanco

List of Publications by Year in descending order

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Version: 2024-02-01

122
papers

2,266
citations

201385

27
h-index

243296

44
g-index

126
all docs

126
docs citations

126
times ranked

1230
citing authors

#	ARTICLE	IF	CITATIONS
1	Analysis of Studentsâ€™ Online Interactions in the Covid Era from the Perspective of Anomaly Detection. Advances in Intelligent Systems and Computing, 2022, , 305-314.	0.5	1
2	The minimum variance of a random set on a Euclidean space. Fuzzy Sets and Systems, 2022, 443, 106-126.	1.6	1
3	The Null Space of Fuzzy Inclusion Measures. IEEE Transactions on Fuzzy Systems, 2021, 29, 641-648.	6.5	2
4	Semi-Supervised Recurrent Variational Autoencoder Approach for Visual Diagnosis of Atrial Fibrillation. IEEE Access, 2021, 9, 40227-40239.	2.6	6
5	Online Estimation of the State of Health of a Rechargeable Battery Through Distal Learning of a Fuzzy Model. Advances in Intelligent Systems and Computing, 2020, , 68-77.	0.5	0
6	A note on “Similarity and dissimilarity measures between fuzzy sets: A formal relational study” and “Additive similarity and dissimilarity measures”. Fuzzy Sets and Systems, 2020, 390, 183-187.	1.6	4
7	A Unified View of Different Axiomatic Measures Defined on \mathcal{L} -Fuzzy Sets. IEEE Transactions on Fuzzy Systems, 2020, 28, 1878-1886.	6.5	1
8	Health assessment of LFP automotive batteries using a fractional-order neural network. Neurocomputing, 2020, 391, 345-354.	3.5	20
9	Distal learning of the incremental capacity curve of a LiFePO4 battery. Logic Journal of the IGPL, 2020, , .	1.3	1
10	Identification of Li-ion battery models through monotonic echo serial networks for coarse data. Logic Journal of the IGPL, 2020, 28, 109-120.	1.3	1
11	Graphical Analysis of the Progression of Atrial Arrhythmia Using Recurrent Neural Networks. International Journal of Computational Intelligence Systems, 2020, 13, 1567.	1.6	2
12	Health Monitoring of Automotive Batteries in Fast-Charging Conditions Through a Fuzzy Model of the Incremental Capacity. Studies in Computational Intelligence, 2020, , 155-164.	0.7	0
13	From Fuzzy Sets to Interval-Valued and Atanassov Intuitionistic Fuzzy Sets: A Unified View of Different Axiomatic Measures. IEEE Transactions on Fuzzy Systems, 2019, 27, 362-371.	6.5	22
14	Distances between Interval-valued Fuzzy Sets Taking into Account the Width of the Intervals. , 2019, , .		1
15	Width-Based Interval-Valued Distances and Fuzzy Entropies. IEEE Access, 2019, 7, 14044-14057.	2.6	12
16	Similarity measures, penalty functions, and fuzzy entropy from new fuzzy subethood measures. International Journal of Intelligent Systems, 2019, 34, 1281-1302.	3.3	10
17	Fuzzy Sets in Data Analysis: From Statistical Foundations to Machine Learning. IEEE Computational Intelligence Magazine, 2019, 14, 31-44.	3.4	40
18	Learning from Imprecise Data: Adjustments of Optimistic and Pessimistic Variants. Lecture Notes in Computer Science, 2019, , 266-279.	1.0	8

#	ARTICLE	IF	CITATIONS
19	Three Categories of Set-Valued Generalizations From Fuzzy Sets to Interval-Valued and Atanassov Intuitionistic Fuzzy Sets. IEEE Transactions on Fuzzy Systems, 2018, 26, 3112-3121.	6.5	6
20	A framework for learning fuzzy rule-based models with epistemic set-valued data and generalized loss functions. International Journal of Approximate Reasoning, 2018, 92, 321-339.	1.9	4
21	Health Assessment of Automotive Batteries Through Computational Intelligence-Based Soft Sensors: An Empirical Study. Advances in Intelligent Systems and Computing, 2018, , 47-56.	0.5	1
22	Kendall's rank correlation on quantized data: An interval-valued approach. Fuzzy Sets and Systems, 2018, 343, 50-64.	1.6	18
23	A general framework for maximizing likelihood under incomplete data. International Journal of Approximate Reasoning, 2018, 93, 238-260.	1.9	17
24	Assessing the Health of LiFePO4 Traction Batteries through Monotonic Echo State Networks. Sensors, 2018, 18, 9.	2.1	29
25	Practical Notes on Applying Generalised Stochastic Orderings to the Study of Performance of Classification Algorithms for Low Quality Data. Advances in Intelligent Systems and Computing, 2018, , 586-599.	0.5	0
26	Graphical Exploratory Analysis of Fuzzy Data as a Teaching Tool. Studies in Systems, Decision and Control, 2018, , 565-574.	0.8	0
27	Additive similarity and dissimilarity measures. Fuzzy Sets and Systems, 2017, 322, 35-53.	1.6	14
28	A class of Monotone Fuzzy rule-based Wiener systems with an application to Li-ion battery modelling. Engineering Applications of Artificial Intelligence, 2017, 64, 367-377.	4.3	14
29	Maximum Likelihood Under Incomplete Information: Toward a Comparison of Criteria. Advances in Intelligent Systems and Computing, 2017, , 141-148.	0.5	4
30	A Model-Based Virtual Sensor for Condition Monitoring of Li-Ion Batteries in Cyber-Physical Vehicle Systems. Journal of Sensors, 2017, 2017, 1-12.	0.6	10
31	Maximum Likelihood Estimation and Coarse Data. Lecture Notes in Computer Science, 2017, , 3-16.	1.0	3
32	Finding informative code metrics under uncertainty for predicting the pass rate of online courses. Information Sciences, 2016, 373, 42-56.	4.0	8
33	Battery diagnosis for electrical vehicles through semi-physical fuzzy models. , 2016, , .		2
34	Machine learning models, epistemic set-valued data and generalized loss functions: An encompassing approach. Information Sciences, 2016, 358-359, 129-150.	4.0	18
35	An extension of the FURIA classification algorithm to low quality data through fuzzy rankings and its application to the early diagnosis of dyslexia. Neurocomputing, 2016, 176, 60-71.	3.5	24
36	Belief Revision and the EM Algorithm. Communications in Computer and Information Science, 2016, , 279-290.	0.4	2

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37	Comparing Interval-Valued Estimations with Point-Valued Estimations. Communications in Computer and Information Science, 2016, , 595-604.	0.4	0
38	Ranking of fuzzy intervals seen through the imprecise probabilistic lens. Fuzzy Sets and Systems, 2015, 278, 20-39.	1.6	23
39	Sequential pattern mining applied to aeroengine condition monitoring with uncertain health data. Engineering Applications of Artificial Intelligence, 2015, 44, 10-24.	4.3	14
40	Online SOC estimation of Li-FePO ₄ batteries through an observer of the system state with minimal nonspecificity. , 2015, , .		0
41	Generalizing the Wilcoxon rank-sum test for interval data. International Journal of Approximate Reasoning, 2015, 56, 108-121.	1.9	52
42	The behavioral meaning of the median. Information Sciences, 2015, 294, 127-138.	4.0	7
43	A Procedure for Extending Input Selection Algorithms to Low Quality Data in Modelling Problems with Application to the Automatic Grading of Uploaded Assignments. Scientific World Journal, The, 2014, 2014, 1-11.	0.8	1
44	Online SOC Estimation of Li-FePO ₄ Batteries through a New Fuzzy Rule-Based Recursive Filter with Feedback of the Heat Flow Rate. , 2014, , .		6
45	Random Fuzzy Sets as Ill-Perceived Random Variables. SpringerBriefs in Applied Sciences and Technology, 2014, , 47-88.	0.2	0
46	Aeroengine prognosis through genetic distal learning applied to uncertain Engine Health Monitoring data. , 2014, , .		3
47	Rejoinder on "Statistical reasoning with set-valued information: Ontic vs. epistemic views". International Journal of Approximate Reasoning, 2014, 55, 1606-1608.	1.9	1
48	The notion of roughness of a fuzzy set. Fuzzy Sets and Systems, 2014, 249, 114-127.	1.6	1
49	Bootstrap analysis of multiple repetitions of experiments using an interval-valued multiple comparison procedure. Journal of Computer and System Sciences, 2014, 80, 88-100.	0.9	8
50	Statistical reasoning with set-valued information: Ontic vs. epistemic views. International Journal of Approximate Reasoning, 2014, 55, 1502-1518.	1.9	140
51	A design methodology for semi-physical fuzzy models applied to the dynamic characterization of LiFePO ₄ batteries. Applied Soft Computing Journal, 2014, 14, 269-288.	4.1	26
52	Random Sets and Random Fuzzy Sets as Ill-Perceived Random Variables. SpringerBriefs in Applied Sciences and Technology, 2014, , .	0.2	36
53	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. Lecture Notes in Computer Science, 2014, , 299-308.	1.0	2
54	Random Sets as Ill-Perceived Random Variables. SpringerBriefs in Applied Sciences and Technology, 2014, , 7-45.	0.2	1

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55	Preference Relations and Families of Probabilities; Different Sides of the Same Coin. Communications in Computer and Information Science, 2014, , 1-9.	0.4	2
56	CHLQD: A software tool for modeling and decision making with Low Quality Data. , 2013, , .		2
57	A methodology for exploiting the tolerance for imprecision in genetic fuzzy systems and its application to characterization of rotor blade leading edge materials. Mechanical Systems and Signal Processing, 2013, 37, 76-91.	4.4	3
58	Similarity and dissimilarity measures between fuzzy sets: A formal relational study. Information Sciences, 2013, 229, 122-141.	4.0	71
59	Boosting fuzzy rules with low quality data in multi-class problems: Open problems and challenges. , 2013, , .		1
60	Engine Health Monitoring for engine fleets using fuzzy radviz. , 2013, , .		9
61	An Extension of the FURIA Classification Algorithm to Low Quality Data. Lecture Notes in Computer Science, 2013, , 679-688.	1.0	4
62	Equalizing imbalanced imprecise datasets for genetic fuzzy classifiers. International Journal of Computational Intelligence Systems, 2012, 5, 276-296.	1.6	8
63	COMBINING ADABOOST WITH PREPROCESSING ALGORITHMS FOR EXTRACTING FUZZY RULES FROM LOW QUALITY DATA IN POSSIBLY IMBALANCED PROBLEMS. International Journal of Uncertainty, Fuzziness and Knowledge-Based Systems, 2012, 20, 51-71.	0.9	4
64	An Imprecise Probability Approach to Joint Extensions of Stochastic and Interval Orderings. Communications in Computer and Information Science, 2012, , 388-399.	0.4	4
65	Guest editorial: special issue on "knowledge extraction from low quality data: theoretical, methodological and practical issues". Soft Computing, 2012, 16, 739-740.	2.1	2
66	Singular spectral analysis of ill-known signals and its application to predictive maintenance of windmills with SCADA records. Soft Computing, 2012, 16, 755-768.	2.1	3
67	Managing stochastic algorithms cross-validation variability using an interval valued multiple comparison procedure. , 2011, , .		0
68	Rough Sets, Coverings and Incomplete Information. Fundamenta Informaticae, 2011, 108, 223-247.	0.3	62
69	Inner and outer fuzzy approximations of confidence intervals. Fuzzy Sets and Systems, 2011, 184, 68-83.	1.6	6
70	Sets of desirable gambles: Conditioning, representation, and precise probabilities. International Journal of Approximate Reasoning, 2011, 52, 1034-1055.	1.9	40
71	Obtaining fuzzy rules from interval-censored data with genetic algorithms and a random sets-based semantic of the linguistic labels. Soft Computing, 2011, 15, 1945-1957.	2.1	3
72	Upper and lower probabilities induced by a fuzzy random variable. Fuzzy Sets and Systems, 2011, 165, 1-23.	1.6	39

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73	Mark-recapture techniques in statistical tests for imprecise data. International Journal of Approximate Reasoning, 2011, 52, 240-260.	1.9	14
74	Linguistic cost-sensitive learning of genetic fuzzy classifiers for imprecise data. International Journal of Approximate Reasoning, 2011, 52, 841-862.	1.9	18
75	Using the Adaboost algorithm for extracting fuzzy rules from low quality data: Some preliminary results. , 2011, , .		1
76	Independence concepts in evidence theory. International Journal of Approximate Reasoning, 2010, 51, 748-758.	1.9	29
77	Diagnosis of dyslexia with low quality data with genetic fuzzy systems. International Journal of Approximate Reasoning, 2010, 51, 993-1009.	1.9	43
78	Approximations of upper and lower probabilities by measurable selections. Information Sciences, 2010, 180, 1407-1417.	4.0	33
79	Preprocessing vague imbalanced datasets and its use in genetic fuzzy classifiers. , 2010, , .		5
80	The Behavioral Meaning of the Median. Advances in Intelligent and Soft Computing, 2010, , 115-122.	0.2	4
81	Peakedness and Generalized Entropy for Continuous Density Functions. Lecture Notes in Computer Science, 2010, , 208-219.	1.0	0
82	Graphical Exploratory Analysis of Educational Knowledge Surveys with Missing and Conflicting Answers Using Evolutionary Techniques. Lecture Notes in Computer Science, 2010, , 45-52.	1.0	0
83	Expected Pair-Wise Comparison of the Outcomes of a Fuzzy Random Variable. Advances in Intelligent and Soft Computing, 2010, , 105-113.	0.2	1
84	Measurement of Ground-Neutral Currents in Three Phase Transformers Using a Genetically Evolved Shaping Filter. Communications in Computer and Information Science, 2010, , 731-740.	0.4	0
85	Obtaining linguistic fuzzy rule-based regression models from imprecise data with multiobjective genetic algorithms. Soft Computing, 2009, 13, 467-479.	2.1	30
86	Extending a simple genetic cooperative-competitive learning fuzzy classifier to low quality datasets. Evolutionary Intelligence, 2009, 2, 73-84.	2.3	25
87	Genetic learning of fuzzy rules based on low quality data. Fuzzy Sets and Systems, 2009, 160, 2524-2552.	1.6	89
88	On the Variability of the Concept of Variance for Fuzzy Random Variables. IEEE Transactions on Fuzzy Systems, 2009, 17, 1070-1080.	6.5	60
89	Obtaining a Linguistically Understandable Random Sets-Based Classifier from Interval-Valued Data with Genetic Algorithms. , 2009, , .		0
90	A Minimum-Risk Genetic Fuzzy Classifier Based on Low Quality Data. Lecture Notes in Computer Science, 2009, , 654-661.	1.0	3

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91	Upper Probabilities Attainable by Distributions of Measurable Selections. Lecture Notes in Computer Science, 2009, , 335-346.	1.0	1
92	GFS-Based Analysis of Vague Databases in High Performance Athletics. Lecture Notes in Computer Science, 2009, , 602-609.	1.0	0
93	Higher order models for fuzzy random variables. Fuzzy Sets and Systems, 2008, 159, 237-258.	1.6	73
94	Mutual information-based feature selection and partition design in fuzzy rule-based classifiers from vague data. International Journal of Approximate Reasoning, 2008, 49, 607-622.	1.9	46
95	AN AXIOMATIC DEFINITION OF FUZZY DIVERGENCE MEASURES. International Journal of Uncertainty, Fuzziness and Knowledge-Based Systems, 2008, 16, 1-17.	0.9	8
96	Defuzzification of Fuzzy p-Values. Advances in Soft Computing, 2008, , 126-132.	0.4	7
97	A Minimum Risk Wrapper Algorithm for Genetically Selecting Imprecisely Observed Features, Applied to the Early Diagnosis of Dyslexia. Lecture Notes in Computer Science, 2008, , 608-615.	1.0	1
98	Advocating the Use of Imprecisely Observed Data in Genetic Fuzzy Systems. IEEE Transactions on Fuzzy Systems, 2007, 15, 551-562.	6.5	66
99	Modeling Vague Data with Genetic Fuzzy Systems under a Combination of Crisp and Imprecise Criteria. , 2007, , .		32
100	Some Results about Mutual Information-based Feature Selection and Fuzzy Discretization of Vague Data. IEEE International Conference on Fuzzy Systems, 2007, , .	0.0	7
101	Joint propagation of probability and possibility in risk analysis: Towards a formal framework. International Journal of Approximate Reasoning, 2007, 45, 82-105.	1.9	94
102	A Multiobjective Genetic Fuzzy System with Imprecise Probability Fitness for Vague Data. , 2006, , .		10
103	Lower previsions induced by multi-valued mappings. Journal of Statistical Planning and Inference, 2005, 133, 173-197.	0.4	32
104	Random sets as imprecise random variables. Journal of Mathematical Analysis and Applications, 2005, 307, 32-47.	0.5	34
105	Random intervals as a model for imprecise information. Fuzzy Sets and Systems, 2005, 154, 386-412.	1.6	30
106	Imprecise distribution function associated to a random set. Information Sciences, 2004, 159, 109-123.	4.0	20
107	A random set characterization of possibility measures. Information Sciences, 2004, 168, 51-75.	4.0	27
108	A Possibilistic Interpretation of the Expectation of a Fuzzy Random Variable. , 2004, , 133-140.		5

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109	Fuzzy $\hat{\mu}$ -partitions. Information Sciences, 2003, 152, 267-285.	4.0	18
110	Extreme points of credal sets generated by 2-alternating capacities. International Journal of Approximate Reasoning, 2003, 33, 95-115.	1.9	30
111	RELATIONSHIPS BETWEEN POSSIBILITY MEASURES AND NESTED RANDOM SETS. International Journal of Uncertainty, Fuzziness and Knowledge-Based Systems, 2002, 10, 1-15.	0.9	34
112	Second order possibility measure induced by a fuzzy random variable. Studies in Fuzziness and Soft Computing, 2002, , 127-144.	0.6	6
113	Divergence measure between fuzzy sets. International Journal of Approximate Reasoning, 2002, 30, 91-105.	1.9	105
114	Stochastic convergence, uniform integrability and convergence in mean on fuzzy measure spaces. Fuzzy Sets and Systems, 2002, 129, 95-104.	1.6	18
115	One-to-one correspondences between μ -partitions, μ -equivalences and μ -pseudometrics. Fuzzy Sets and Systems, 2001, 124, 87-95.	1.6	12
116	Combining GP operators with SA search to evolve fuzzy rule based classifiers. Information Sciences, 2001, 136, 175-191.	4.0	113
117	THE NECESSITY OF THE STRONG $\hat{\mu}$ -CLITS OF A FUZZY SET. International Journal of Uncertainty, Fuzziness and Knowledge-Based Systems, 2001, 09, 249-262.	0.9	43
118	A survey of concepts of independence for imprecise probabilities. Risk, Decision and Policy, 2000, 5, 165-181.	0.1	118
119	Fuzzy random variables-based modeling with GA-P algorithms. , 2000, , 245-256.		17
120	A perspective on the extension of stochastic orderings to fuzzy random variables. , 0, , .		4
121	Generalized stochastic orderings applied to the study of performance of machine learning algorithms for low quality data. , 0, , .		1
122	Graphical analysis of the progression of atrial arrhythmia through an ensemble of Generative Adversarial Network Discriminators. , 0, , .		0