InÃ©s Couso Blanco

List of Publications by Year
in descending order

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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	Statistical reasoning with set-valued information: Ontic vs. epistemic views. International Journal of Approximate Reasoning, 2014, 55, 1502-1518.	1.9	140
2	A survey of concepts of independence for imprecise probabilities. Risk, Decision and Policy, 2000, 5, 165-181.	0.1	118
3	Combining GP operators with SA search to evolve fuzzy rule based classifiers. Information Sciences, 2001, 136, 175-191.	4.0	113
4	Divergence measure between fuzzy sets. International Journal of Approximate Reasoning, 2002, 30, 91-105.	1.9	105
5	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
6	Genetic learning of fuzzy rules based on low quality data. Fuzzy Sets and Systems, 2009, 160, 2524-2552.	1.6	89
7	Higher order models for fuzzy random variables. Fuzzy Sets and Systems, 2008, 159, 237-258.	1.6	73
8	Similarity and dissimilarity measures between fuzzy sets: A formal relational study. Information Sciences, 2013, 229, 122-141.	4.0	71
9	Advocating the Use of Imprecisely Observed Data in Genetic Fuzzy Systems. IEEE Transactions on Fuzzy Systems, 2007, 15, 551-562.	6.5	66
10	Rough Sets, Coverings and Incomplete Information. Fundamenta Informaticae, 2011, 108, 223-247.	0.3	62
11	On the Variability of the Concept of Variance for Fuzzy Random Variables. IEEE Transactions on Fuzzy Systems, 2009, 17, 1070-1080.	6.5	60
12	Generalizing the Wilcoxon rank-sum test for interval data. International Journal of Approximate Reasoning, 2015, 56, 108-121.	1.9	52
13	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
14	THE NECESSITY OF THE STRONG Î±-CUTS OF A FUZZY SET. International Journal of Uncertainty, Fuzziness and Knowlege-Based Systems, 2001, 09, 249-262.	0.9	43
15	Diagnosis of dyslexia with low quality data with genetic fuzzy systems. International Journal of Approximate Reasoning, 2010, 51, 993-1009.	1.9	43
16	Sets of desirable gambles: Conditioning, representation, and precise probabilities. International Journal of Approximate Reasoning, 2011, 52, 1034-1055.	1.9	40
17	Fuzzy Sets in Data Analysis: From Statistical Foundations to Machine Learning. IEEE Computational Intelligence Magazine, 2019, 14, 31-44.	3.4	40
18	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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19	Random Sets and Random Fuzzy Sets as Ill-Perceived Random Variables. SpringerBriefs in Applied Sciences and Technology, 2014, , .	0.2	36
20	RELATIONSHIPS BETWEEN POSSIBILITY MEASURES AND NESTED RANDOM SETS. International Journal of Uncertainty, Fuzziness and Knowlege-Based Systems, 2002, 10, 1-15.	0.9	34
21	Random sets as imprecise random variables. Journal of Mathematical Analysis and Applications, 2005, 307, 32-47.	0.5	34
22	Approximations of upper and lower probabilities by measurable selections. Information Sciences, 2010, 180, 1407-1417.	4.0	33
23	Lower previsions induced by multi-valued mappings. Journal of Statistical Planning and Inference, 2005, 133, 173-197.	0.4	32
24	Modeling Vague Data with Genetic Fuzzy Systems under a Combination of Crisp and Imprecise Criteria. , 2007, , .		32
25	Extreme points of credal sets generated by 2-alternating capacities. International Journal of Approximate Reasoning, 2003, 33, 95-115.	1.9	30
26	Random intervals as a model for imprecise information. Fuzzy Sets and Systems, 2005, 154, 386-412.	1.6	30
27	Obtaining linguistic fuzzy rule-based regression models from imprecise data with multiobjective genetic algorithms. Soft Computing, 2009, 13, 467-479.	2.1	30
28	Independence concepts in evidence theory. International Journal of Approximate Reasoning, 2010, 51, 748-758.	1.9	29
29	Assessing the Health of LiFePO4 Traction Batteries through Monotonic Echo State Networks. Sensors, 2018, 18, 9.	2.1	29
30	A random set characterization of possibility measures. Information Sciences, 2004, 168, 51-75.	4.0	27
31	A design methodology for semi-physical fuzzy models applied to the dynamic characterization of LiFePO4 batteries. Applied Soft Computing Journal, 2014, 14, 269-288.	4.1	26
32	Extending a simple genetic cooperative-competitive learning fuzzy classifier to low quality datasets. Evolutionary Intelligence, 2009, 2, 73-84.	2.3	25
33	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
34	Ranking of fuzzy intervals seen through the imprecise probabilistic lens. Fuzzy Sets and Systems, 2015, 278, 20-39.	1.6	23
35	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
36	Imprecise distribution function associated to a random set. Information Sciences, 2004, 159, 109-123.	4.0	20

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37	Health assessment of LFP automotive batteries using a fractional-order neural network. Neurocomputing, 2020, 391, 345-354.	3.5	20
38	Stochastic convergence, uniform integrability and convergence in mean on fuzzy measure spaces. Fuzzy Sets and Systems, 2002, 129, 95-104.	1.6	18
39	Fuzzy Î˜-Îµ-partitions. Information Sciences, 2003, 152, 267-285.	4.0	18
40	Linguistic cost-sensitive learning of genetic fuzzy classifiers for imprecise data. International Journal of Approximate Reasoning, 2011, 52, 841-862.	1.9	18
41	Machine learning models, epistemic set-valued data and generalized loss functions: An encompassing approach. Information Sciences, 2016, 358-359, 129-150.	4.0	18
42	Kendall's rank correlation on quantized data: An interval-valued approach. Fuzzy Sets and Systems, 2018, 343, 50-64.	1.6	18
43	A general framework for maximizing likelihood under incomplete data. International Journal of Approximate Reasoning, 2018, 93, 238-260.	1.9	17
44	Fuzzy random variables-based modeling with GA-P algorithms. , 2000, , 245-256.		17
45	Mark-recapture techniques in statistical tests for imprecise data. International Journal of Approximate Reasoning, 2011, 52, 240-260.	1.9	14
46	Sequential pattern mining applied to aeroengine condition monitoring with uncertain health data. Engineering Applications of Artificial Intelligence, 2015, 44, 10-24.	4.3	14
47	Additive similarity and dissimilarity measures. Fuzzy Sets and Systems, 2017, 322, 35-53.	1.6	14
48	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
49	One-to-one correspondences between -partitions, -equivalences and -pseudometrics. Fuzzy Sets and Systems, 2001, 124, 87-95.	1.6	12
50	Width-Based Interval-Valued Distances and Fuzzy Entropies. IEEE Access, 2019, 7, 14044-14057.	2.6	12
51	A Multiobjective Genetic Fuzzy System with Imprecise Probability Fitness for Vague Data. , 2006, , .		10
52	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
53	Similarity measures, penalty functions, and fuzzy entropy from new fuzzy subsethood measures. International Journal of Intelligent Systems, 2019, 34, 1281-1302.	3.3	10
54	Engine Health Monitoring for engine fleets using fuzzy radviz. , 2013, , .		9

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55	AN AXIOMATIC DEFINITION OF FUZZY DIVERGENCE MEASURES. International Journal of Uncertainty, Fuzziness and Knowlege-Based Systems, 2008, 16, 1-17.	0.9	8
56	Equalizing imbalanced imprecise datasets for genetic fuzzy classifiers. International Journal of Computational Intelligence Systems, 2012, 5, 276-296.	1.6	8
57	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
58	Finding informative code metrics under uncertainty for predicting the pass rate of online courses. Information Sciences, 2016, 373, 42-56.	4.0	8
59	Learning from Imprecise Data: Adjustments of Optimistic and Pessimistic Variants. Lecture Notes in Computer Science, 2019, , 266-279.	1.0	8
60	Some Results about Mutual Information-based Feature Selection and Fuzzy Discretization of Vague Data. IEEE International Conference on Fuzzy Systems, 2007, , .	0.0	7
61	The behavioral meaning of the median. Information Sciences, 2015, 294, 127-138.	4.0	7
62	Defuzzification of Fuzzy p-Values. Advances in Soft Computing, 2008, , 126-132.	0.4	7
63	Second order possibility measure induced by a fuzzy random variable. Studies in Fuzziness and Soft Computing, 2002, , 127-144.	0.6	6
64	Inner and outer fuzzy approximations of confidence intervals. Fuzzy Sets and Systems, 2011, 184, 68-83.	1.6	6
65	Online SOC Estimation of Li-FePO4 Batteries through a New Fuzzy Rule-Based Recursive Filter with Feedback of the Heat Flow Rate. , 2014, , .		6
66	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
67	Semi-Supervised Recurrent Variational Autoencoder Approach for Visual Diagnosis of Atrial Fibrillation. IEEE Access, 2021, 9, 40227-40239.	2.6	6
68	A Possibilistic Interpretation of the Expectation of a Fuzzy Random Variable. , 2004, , 133-140.		5
69	Preprocessing vague imbalanced datasets and its use in genetic fuzzy classifiers. , 2010, , .		5
70	COMBINING ADABOOST WITH PREPROCESSING ALGORITHMS FOR EXTRACTING FUZZY RULES FROM LOW QUALITY DATA IN POSSIBLY IMBALANCED PROBLEMS. International Journal of Uncertainty, Fuzziness and Knowlege-Based Systems, 2012, 20, 51-71.	0.9	4
71	An Imprecise Probability Approach to Joint Extensions of Stochastic and Interval Orderings. Communications in Computer and Information Science, 2012, , 388-399.	0.4	4
72	Maximum Likelihood Under Incomplete Information: Toward a Comparison of Criteria. Advances in Intelligent Systems and Computing, 2017, , 141-148.	0.5	4

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73	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
74	A note on â€œSimilarity and dissimilarity measures between fuzzy sets: A formal relational studyâ€•and â€œAdditive similarity and dissimilarity measuresâ€• Fuzzy Sets and Systems, 2020, 390, 183-187.	1.6	4
75	The Behavioral Meaning of the Median. Advances in Intelligent and Soft Computing, 2010, , 115-122.	0.2	4
76	An Extension of the FURIA Classification Algorithm to Low Quality Data. Lecture Notes in Computer Science, 2013, , 679-688.	1.0	4
77	A perspective on the extension of stochastic orderings to fuzzy random variables. , 0, , .		4
78	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
79	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
80	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
81	Aeroengine prognosis through genetic distal learning applied to uncertain Engine Health Monitoring data. , 2014, , .		3
82	Maximum Likelihood Estimation and Coarse Data. Lecture Notes in Computer Science, 2017, , 3-16.	1.0	3
83	A Minimum-Risk Genetic Fuzzy Classifier Based on Low Quality Data. Lecture Notes in Computer Science, 2009, , 654-661.	1.0	3
84	Guest editorial: special issue on â€œknowledge extraction from low quality data: theoretical, methodological and practical issuesâ€• Soft Computing, 2012, 16, 739-740.	2.1	2
85	CI-LQD: A software tool for modeling and decision making with Low Quality Data. , 2013, , .		2
86	Battery diagnosis for electrical vehicles through semi-physical fuzzy models. , 2016, , .		2
87	The Null Space of Fuzzy Inclusion Measures. IEEE Transactions on Fuzzy Systems, 2021, 29, 641-648.	6.5	2
88	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
89	Belief Revision and the EM Algorithm. Communications in Computer and Information Science, 2016, , 279-290.	0.4	2
90	Graphical Analysis of the Progression of Atrial Arrhythmia Using Recurrent Neural Networks. International Journal of Computational Intelligence Systems, 2020, 13, 1567.	1.6	2

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91	Preference Relations and Families of Probabilities: Different Sides of the Same Coin. Communications in Computer and Information Science, 2014, , 1-9.	0.4	2
92	Using the Adaboost algorithm for extracting fuzzy rules from low quality data: Some preliminary results. , 2011, , .		1
93	Boosting fuzzy rules with low quality data in multi-class problems: Open problems and challenges. , 2013, , .		1
94	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
95	Rejoinder on â€œStatistical reasoning with set-valued information: Ontic vs. epistemic viewsâ€: International Journal of Approximate Reasoning, 2014, 55, 1606-1608.	1.9	1
96	The notion of roughness of a fuzzy set. Fuzzy Sets and Systems, 2014, 249, 114-127.	1.6	1
97	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
98	Distances between Interval-valued Fuzzy Sets Taking into Account the Width of the Intervals. , 2019, , .		1
99	A Unified View of Different Axiomatic Measures Defined on L-Fuzzy Sets. IEEE Transactions on Fuzzy Systems, 2020, 28, 1878-1886.	6.5	1
100	Distal learning of the incremental capacity curve of a LiFePO4 battery. Logic Journal of the IGPL, 2020, , .	1.3	1
101	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
102	Analysis of Studentsâ€™ Online Interactions in the Covid Era from the Perspective ofÂAnomaly Detection. Advances in Intelligent Systems and Computing, 2022, , 305-314.	0.5	1
103	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
104	Upper Probabilities Attainable by Distributions of Measurable Selections. Lecture Notes in Computer Science, 2009, , 335-346.	1.0	1
105	Expected Pair-Wise Comparison of the Outcomes of a Fuzzy Random Variable. Advances in Intelligent and Soft Computing, 2010, , 105-113.	0.2	1
106	Random Sets as Ill-Perceived Random Variables. SpringerBriefs in Applied Sciences and Technology, 2014, , 7-45.	0.2	1
107	Generalized stochastic orderings applied to the study of performance of machine learning algorithms for low quality data. , 0, , .		1
108	The minimum variance of a random set on a Euclidean space. Fuzzy Sets and Systems, 2022, 443, 106-126.	1.6	1

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109	Obtaining a Linguistically Understandable Random Sets-Based Classifier from Interval-Valued Data with Genetic Algorithms. , 2009, , .		0
110	Managing stochastic algorithms cross-validation variability using an interval valued multiple comparison procedure. , 2011, , .		0
111	Random Fuzzy Sets as Ill-Perceived Random Variables. SpringerBriefs in Applied Sciences and Technology, 2014, , 47-88.	0.2	0
112	Online SOC estimation of Li-FePO<inf>4</inf> batteries through an observer of the system state with minimal nonspecificity. , 2015, , .		0
113	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
114	GFS-Based Analysis of Vague Databases in High Performance Athletics. Lecture Notes in Computer Science, 2009, , 602-609.	1.0	0
115	Peakedness and Generalized Entropy for Continuous Density Functions. Lecture Notes in Computer Science, 2010, , 208-219.	1.0	0
116	Graphical Exploratory Analysis of Educational Knowledge Surveys with Missing and Conflictive Answers Using Evolutionary Techniques. Lecture Notes in Computer Science, 2010, , 45-52.	1.0	0
117	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
118	Comparing Interval-Valued Estimations with Point-Valued Estimations. Communications in Computer and Information Science, 2016, , 595-604.	0.4	0
119	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
120	Graphical Exploratory Analysis of Fuzzy Data as a Teaching Tool. Studies in Systems, Decision and Control, 2018, , 565-574.	0.8	0
121	Graphical analysis of the progression of atrial arrhythmia through an ensemble of Generative Adversarial Network Discriminators. , 0, , .		0
122	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