Jose M Alonso

List of Publications by Year
in descending order

89 papers	1,903 citations	304743 22 h-index	302126 39 g-index
95 all docs	95 docs citations	95 times ranked	1266 citing authors

#	Article	IF	Citations
1	Interpretable clinical time-series modeling with intelligent feature selection for early prediction of antimicrobial multidrug resistance. Future Generation Computer Systems, 2022, 133, 68-83.	7.5	12
2	FCE: Feedback Based Counterfactual Explanations for Explainable AI. IEEE Access, 2022, 10, 72363-72372.	4.2	8
3	Design and Validation of an Explainable Fuzzy Beer Style Classifier. Studies in Computational Intelligence, 2021, , 169-217.	0.9	3
4	Explainable Fuzzy Systems. Studies in Computational Intelligence, 2021, , .	0.9	33
5	A Survey of Contrastive and Counterfactual Explanation Generation Methods for Explainable Artificial Intelligence. IEEE Access, 2021, 9, 11974-12001.	4.2	141
6	Remarks and Prospects on Explainable Fuzzy Systems. Studies in Computational Intelligence, 2021, , 219-225.	0.9	2
7	Designing Interpretable Fuzzy Systems. Studies in Computational Intelligence, 2021, , 119-168.	0.9	6
8	Revisiting Indexes for Assessing Interpretability of Fuzzy Systems. Studies in Computational Intelligence, 2021, , 91-118.	0.9	7
9	Factual and Counterfactual Explanation of Fuzzy Information Granules. Studies in Computational Intelligence, 2021, , 153-185.	0.9	6
10	Toward Explainable Artificial Intelligence Through Fuzzy Systems. Studies in Computational Intelligence, 2021, , 1-23.	0.9	7
11	A multilayer multimodal detection and prediction model based on explainable artificial intelligence for Alzheimerâ€™s disease. Scientific Reports, 2021, 11, 2660.	3.3	125
12	Modelling of the adsorption of urea herbicides by tropical soils with an Adaptiveâ€Neuralâ€based Fuzzy Inference System. Journal of Chemometrics, 2021, 35, e3335.	1.3	3
13	Robust hybrid deep learning models for Alzheimerâ€™s progression detection. Knowledge-Based Systems, 2021, 213, 106688.	7.1	65
14	A Framework for Analyzing Fairness, Accountability, Transparency and Ethics: A Use-case in Banking Services. , 2021, , .		5
15	Interactive Natural Language Technology for Explainable Artificial Intelligence. Lecture Notes in Computer Science, 2021, , 63-70.	1.3	4
16	An Overview of Fuzzy Systems. Studies in Computational Intelligence, 2021, , 25-47.	0.9	9
17	Interpretability Constraints and Criteria for Fuzzy Systems. Studies in Computational Intelligence, 2021, , 49-89.	0.9	10
18	Generation and evaluation of factual and counterfactual explanations for decision trees and fuzzy rule-based classifiers. , 2020, , .		17

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19	Building Explanations for Fuzzy Decision Trees with the ExpliClas Software. , 2020, , .		11
20	Experimental Study on Generating Multi-modal Explanations of Black-box Classifiers in terms of Gray-box Classifiers. , 2020, , .		5
21	Teaching Explainable Artificial Intelligence to High School Students. International Journal of Computational Intelligence Systems, 2020, 13, 974.	2.7	36
22	From Zadehâ€™s Computing with Words Towards eXplainable Artificial Intelligence. Lecture Notes in Computer Science, 2019, , 244-248.	1.3	6
23	Paving the Way to Explainable Artificial Intelligence with Fuzzy Modeling. Lecture Notes in Computer Science, 2019, , 215-227.	1.3	15
24	Py4JFML: A Python wrapper for using the IEEE Std 1855-2016 through JFML. , 2019, , .		11
25	ExpliClas: Automatic Generation of Explanations in Natural Language for Weka Classifiers. , 2019, , .		30
26	Explainable Artificial Intelligence for Human-Centric Data Analysis in Virtual Learning Environments. Communications in Computer and Information Science, 2019, , 125-138.	0.5	29
27	Paving the way towards counterfactual generation in argumentative conversational agents. , 2019, , .		3
28	Toward automatic generation of linguistic advice for saving energy at home. Soft Computing, 2018, 22, 345-359.	3.6	33
29	JFML: A Java Library to Design Fuzzy Logic Systems According to the IEEE Std 1855-2016. IEEE Access, 2018, 6, 54952-54964.	4.2	45
30	An Ontology-Based Interpretable Fuzzy Decision Support System for Diabetes Diagnosis. IEEE Access, 2018, 6, 37371-37394.	4.2	58
31	A Bibliometric Analysis of the Explainable Artificial Intelligence Research Field. Communications in Computer and Information Science, 2018, , 3-15.	0.5	38
32	Using Fuzzy Sets in a Data-to-Text System for Business Service Intelligence. Advances in Intelligent Systems and Computing, 2018, , 220-231.	0.6	2
33	New types of computational perceptions: Linguistic descriptions in deforestation analysis. Expert Systems With Applications, 2017, 85, 46-60.	7.6	13
34	Fuzzy classifier ensembles for hierarchical WiFi-based semantic indoor localization. Expert Systems With Applications, 2017, 90, 394-404.	7.6	22
35	Natural Language Generation with Computational Intelligence [Guest Editorial]. IEEE Computational Intelligence Magazine, 2017, 12, 8-9.	3.2	7
36	Generating automatic linguistic descriptions with big data. Information Sciences, 2017, 380, 12-30.	6.9	14

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37	An exploratory study on the benefits of using natural language for explaining fuzzy rule-based systems. , 2017, , .		17
38	Looking for a real-world-semantics-based approach to the interpretability of fuzzy systems. , 2017, , .		1
39	An empirical approach for modeling fuzzy geographical descriptors. , 2017, , .		4
40	Continuous Space Estimation: Increasing WiFi-Based Indoor Localization Resolution without Increasing the Site-Survey Effort. Sensors, 2017, 17, 147.	3.8	68
41	rLDCP: R package for text generation from data. , 2017, , .		4
42	Descriptive and Comparative Analysis of Human Perceptions expressed through Fuzzy Rating Scale-based Questionnaires. International Journal of Computational Intelligence Systems, 2016, 9, 450.	2.7	16
43	Introduction to the Soft Computing and Intelligent Data Analysis Minitrack. , 2016, , .		0
44	Special Issue on Computational Intelligence Software Guest Editorial. IEEE Computational Intelligence Magazine, 2016, 11, 13-14.	3.2	1
45	Enhancing Fingrams to deal with precise fuzzy systems. Fuzzy Sets and Systems, 2016, 297, 1-25.	2.7	10
46	A Survey of Fuzzy Systems Software: Taxonomy, Current Research Trends, and Prospects. IEEE Transactions on Fuzzy Systems, 2016, 24, 40-56.	9.8	91
47	Interpretability of Fuzzy Systems: Current Research Trends and Prospects. , 2015, , 219-237.		71
48	Introduction to the soft computing and intelligent data analysis minitrack. , 2015, , .		0
49	Applying Random Linear Oracles with Fuzzy Classifier Ensembles on WiFi Indoor Localization Problem. Studies in Fuzziness and Soft Computing, 2015, , 277-287.	0.8	1
50	WiFi-based indoor localization and tracking of a moving device. , 2014, , .		12
51	Analyzing fuzzy association rules with Fingrams in KEEL. , 2014, , .		7
52	Customization of Products Assisted by Kansei Engineering, Sensory Analysis and Soft Computing. Communications in Computer and Information Science, 2014, , 616-625.	0.5	2
53	A multiclassifier approach for topology-based WiFi indoor localization. Soft Computing, 2013, 17, 1817-1831.	3.6	25
54	FINGRAMS: Visual Representations of Fuzzy Rule-Based Inference for Expert Analysis of Comprehensibility. IEEE Transactions on Fuzzy Systems, 2013, 21, 1133-1149.	9.8	47

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55	Human activity recognition in indoor environments by means of fusing information extracted from intensity of WiFi signal and accelerations. Information Sciences, 2013, 233, 162-182.	6.9	35
56	A new fingram-based software tool for visual representation and analysis of fuzzy association rules. , 2013, , .		9
57	Special Issue on Software Tools for Soft Computing. International Journal of Computational Intelligence Systems, 2013, 6, 1.	2.7	9
58	Quest for Interpretability-Accuracy Trade-off Supported by Fingrams into the Fuzzy Modeling Tool GUAJE. International Journal of Computational Intelligence Systems, 2013, 6, 46.	2.7	32
59	Social Network Analysis of Co-fired Fuzzy Rules. Studies in Fuzziness and Soft Computing, 2013, , 113-128.	0.8	9
60	Modeling Interpretable Fuzzy Rule-Based Classifiers for Medical Decision Support. , 2013, , 1064-1081.		8
61	Interpretability analysis of fuzzy association rules supported by fingrams. , 2013, , .		6
62	Interpretable fuzzy system allowing to be framed in a profile photo through linguistic expressions. , 2013, , .		3
63	Wifigrams: Design of Hierarchical Wi-Fi Indoor Localization Systems Guided by Social Network Analysis. Lecture Notes in Computer Science, 2013, , 9-16.	1.3	0
64	Impact of Signal Representations on the Performance of Hierarchical WiFi Localization Systems. Lecture Notes in Computer Science, 2013, , 17-24.	1.3	1
65	Enhancing the fuzzy modeling tool GUAJE with a new module for fingrams-based analysis of fuzzy rule bases. , 2012, , .		6
66	Modeling Interpretable Fuzzy Rule-Based Classifiers for Medical Decision Support. Advances in Medical Technologies and Clinical Practice Book Series, 2012, , 255-272.	0.3	5
67	Multi-objective design of highly interpretable fuzzy rule-based classifiers with semantic cointension. , 2011, , .		14
68	Generating Understandable and Accurate Fuzzy Rule-Based Systems in a Java Environment. Lecture Notes in Computer Science, 2011, , 212-219.	1.3	38
69	Enhanced WiFi localization system based on Soft Computing techniques to deal with small-scale variations in wireless sensors. Applied Soft Computing Journal, 2011, 11, 4677-4691.	7.2	26
70	HILK++: an interpretability-guided fuzzy modeling methodology for learning readable and comprehensible fuzzy rule-based classifiers. Soft Computing, 2011, 15, 1959-1980.	3.6	73
71	Topology-based indoor localization by means of WiFi fingerprinting with a computational intelligent classifier. , 2011, , .		4
72	Human activity recognition applying computational intelligence techniques for fusing information related to WiFi positioning and body posture. , 2010, , .		17

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73	Combining user's preferences and quality criteria into a new index for guiding the design of fuzzy systems with a good interpretability-accuracy trade-off. , 2010, , .		7
74	Embedding HILK in a three-objective evolutionary algorithm with the aim of modeling highly interpretable fuzzy rule-based classifiers. , 2010, , .		21
75	Looking for a good fuzzy system interpretability index: An experimental approach. International Journal of Approximate Reasoning, 2009, 51, 115-134.	3.3	130
76	An Interpretability-Guided Modeling Process for Learning Comprehensible Fuzzy Rule-Based Classifiers. , 2009, , .		4
77	WiFi localization system based on Fuzzy Logic to deal with signal variations. , 2009, , .		3
78	Mealtime Blood Glucose Classifier Based on Fuzzy Logic for the DIABTel Telemedicine System. Lecture Notes in Computer Science, 2009, , 295-304.	1.3	4
79	WiFi Localization System Using Fuzzy Rule-Based Classification. Lecture Notes in Computer Science, 2009, , 383-390.	1.3	8
80	HILK: A new methodology for designing highly interpretable linguistic knowledge bases using the fuzzy logic formalism. International Journal of Intelligent Systems, 2008, 23, 761-794.	5.7	87
81	Highly Interpretable Linguistic Knowledge Bases Optimization: Genetic Tuning versus Solis-Wetts. Looking for a good interpretability-accuracy trade-off. IEEE International Conference on Fuzzy Systems, 2007, , .	0.0	11
82	Knowledge-based Intelligent Diagnosis of Ground Robot Collision with Non Detectable Obstacles. Journal of Intelligent and Robotic Systems: Theory and Applications, 2007, 48, 539-566.	3.4	17
83	KBCT: a knowledge extraction and representation tool for fuzzy logic based systems. , 0, , .		13
84	Automatic linguistic reporting of customer activity patterns in open malls. Multimedia Tools and Applications, 0, , 1.	3.9	3
85	Explainable Artificial Intelligence for Kids. , 0, , .		3
86	Understanding the Inference Mechanism of FURIA by means of Fingrams. , 0, , .		0
87	QUALE Â®: A new Toolbox for Quantitative and Qualitative Analysis of Human Perceptions. , 0, , .		1
88	Linguistic Aggregation Functions using the MapReduce Paradigm. , 0, , .		0
89	Fuzzy-Based Language Grounding of Geographical References: From Writers to Readers. International Journal of Computational Intelligence Systems, 0, , .	2.7	0