Alberto BugarÃn

List of Publications by Year
in descending order

90 papers	1,203 citations	471061 17 h-index	476904 29 g-index
95 all docs	95 docs citations	95 times ranked	928 citing authors

#	Article	IF	Citations
1	Fuzzy reasoning supported by Petri nets. IEEE Transactions on Fuzzy Systems, 1994, 2, 135-150.	6.5	130
2	STAC: A web platform for the comparison of algorithms using statistical tests. , 2015, , .		97
3	Linguistic Descriptions for Automatic Generation of Textual Short-Term Weather Forecasts on Real Prediction Data. IEEE Transactions on Fuzzy Systems, 2015, 23, 44-57.	6.5	71
4	Design of a fuzzy controller in mobile robotics using genetic algorithms. Applied Soft Computing Journal, 2007, 7, 540-546.	4.1	65
5	On the role of linguistic descriptions of data in the building of natural language generation systems. Fuzzy Sets and Systems, 2016, 285, 31-51.	1.6	63
6	A framework for fuzzy quantification models analysis. IEEE Transactions on Fuzzy Systems, 2003, 11, 89-99.	6.5	43
7	Definition and classification of semi-fuzzy quantifiers for the evaluation of fuzzy quantified sentences. International Journal of Approximate Reasoning, 2003, 34, 49-88.	1.9	38
8	FRULER: Fuzzy Rule Learning through Evolution for Regression. Information Sciences, 2016, 354, 1-18.	4.0	38
9	Integrated resource efficiency: measurement and management. International Journal of Operations and Production Management, 2016, 36, 1576-1600.	3.5	37
10	A Probabilistic Quantifier Fuzzification Mechanism: The Model and Its Evaluation for Information Retrieval. IEEE Transactions on Fuzzy Systems, 2005, 13, 688-700.	6.5	30
11	Graph-based semantic annotation for enriching educational content with linked data. Knowledge-Based Systems, 2014, 55, 29-42.	4.0	30
12	ExpliClas: Automatic Generation of Explanations in Natural Language for Weka Classifiers. , 2019, , .		30
13	Fuzzy temporal rules for mobile robot guidance in dynamic environments. IEEE Transactions on Systems, Man and Cybernetics, Part C: Applications and Reviews, 2001, 31, 391-398.	3.3	29
14	Voting-model based evaluation of fuzzy quantified sentences: a general framework. Fuzzy Sets and Systems, 2004, 146, 97-120.	1.6	29
15	A fuzzy temporal rule-based velocity controller for mobile robotics. Fuzzy Sets and Systems, 2003, 134, 83-99.	1.6	25
16	Landmark Detection in Mobile Robotics Using Fuzzy Temporal Rules. IEEE Transactions on Fuzzy Systems, 2004, 12, 423-435.	6.5	24
17	A fuzzy syllogistic reasoning schema for generalized quantifiers. Fuzzy Sets and Systems, 2014, 234, 79-96.	1.6	19
18	Autonomous navigation for UAVs managing motion and sensing uncertainty. Robotics and Autonomous Systems, 2020, 126, 103455.	3.0	19

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19	Machine scheduling in custom furniture industry through neuro-evolutionary hybridization. Applied Soft Computing Journal, 2011, 11, 1600-1613.	4.1	18
20	Experiments on using fuzzy quantified sentences in adhoc retrieval. , 2004, , .		16
21	Evolutionary learning of a fuzzy controller for wall-following behavior in mobile robotics. Soft Computing, 2006, 10, 881-889.	2.1	16
22	Fuzzy sets across the natural language generation pipeline. Progress in Artificial Intelligence, 2016, 5, 261-276.	1.5	16
23	Feature Selection and Evolutionary Rule Learning for Big Data in Smart Building Energy Management. Cognitive Computation, 2019, 11, 418-433.	3.6	15
24	OPENET: Ontology-based engine for high-level Petri nets. Expert Systems With Applications, 2010, 37, 6493-6509.	4.4	14
25	On the analysis of set-based fuzzy quantified reasoning using classical syllogistics. Fuzzy Sets and Systems, 2013, 214, 83-94.	1.6	14
26	Reasoning with truth values on compacted fuzzy chained rules. IEEE Transactions on Systems, Man, and Cybernetics, 1998, 28, 34-46.	5.5	13
27	Semi-fuzzy quantifiers as a tool for building linguistic summaries of data patterns. , 2011, , .		12
28	An instance selection algorithm for regression and its application in variance reduction. , 2013, , .		11
29	Aspects of quality evaluation in linguistic descriptions of data. , 2015, , .		11
30	Towards Textual Reporting in Learning Analytics Dashboards. , 2015, , .		11
31	Processing time estimations by variable structure TSK rules learned through genetic programming. Soft Computing, 2009, 13, 497-509.	2.1	10
32	People detection through quantified fuzzy temporal rules. Pattern Recognition, 2010, 43, 1441-1453.	5.1	10
33	Petri net-based engine for adaptive learning. Expert Systems With Applications, 2012, 39, 12799-12813.	4.4	10
34	Evaluation of a Data-To-Text System for Verbalizing a Learning Analytics Dashboard. International Journal of Intelligent Systems, 2017, 32, 177-193.	3.3	10
35	Fuzzy Temporal Rules: A Rule-based Approach for Fuzzy Temporal Knowledge Representation and Reasoning. Studies in Fuzziness and Soft Computing, 2002, , 237-250.	0.6	9
36	On the role of fuzzy quantified statements in linguistic summarization of data. , 2011, , .		8

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37	Semantic Linking of a Learning Object Repository to DBpedia. , 2011, , .		7
38	Toward the use of Petri nets for the formalization of OWL-S choreographies. Knowledge and Information Systems, 2012, 32, 629-665.	2.1	7
39	Natural Language Generation with Computational Intelligence [Guest Editorial]. IEEE Computational Intelligence Magazine, 2017, 12, 8-9.	3.4	7
40	Reducing the complexity in genetic learning of accurate regression TSK rule-based systems. , 2015, , .		6
41	Learning fuzzy controllers in mobile robotics with embedded preprocessing. Applied Soft Computing Journal, 2015, 26, 123-142.	4.1	6
42	Motion planning under uncertainty in graduated fidelity lattices. Robotics and Autonomous Systems, 2018, 109, 168-182.	3.0	6
43	A Vector-Based Classification Approach for Remaining Time Prediction in Business Processes. IEEE Access, 2019, 7, 128198-128212.	2.6	6
44	A State Lattice Approach for Motion Planning under Control and Sensor Uncertainty. Advances in Intelligent Systems and Computing, 2014, , 247-260.	0.5	6
45	Processing times estimation in a manufacturing industry through genetic programming. , 2008, , .		5
46	A Petri net model for changing units of learning in runtime. Knowledge-Based Systems, 2013, 41, 26-42.	4.0	5
47	Hipster: An open source Java library for heuristic search. , 2014, , .		5
48	Experimental Study on Generating Multi-modal Explanations of Black-box Classifiers in terms of Gray-box Classifiers. , 2020, , .		5
49	A framework for the automatic description of healthcare processes in natural language: Application in an aortic stenosis integrated care process. Journal of Biomedical Informatics, 2022, 128, 104033.	2.5	5
50	OPENET LD: An Ontology-Based Petri Net Engine to Execute IMS LD Units of Learning. , 2009, , .		4
51	OPENET4VE: A Platform for the Execution of IMS LD Units of Learning in Virtual Environments. , 2010, , .		4
52	Interactive Natural Language Technology for Explainable Artificial Intelligence. Lecture Notes in Computer Science, 2021, , 63-70.	1.0	4
53	Semi-fuzzy Quantifiers for Information Retrieval. , 2006, , 195-220.		4
54	Workflow-based information system for furniture budgeting. , 0, , .		3

#	ARTICLE	IF	CITATIONS
55	An Adaptive Evolutionary Algorithm for Production Planning in Wood Furniture Industry. , 2006, , .		3
56	An analysis of reasoning with quantifiers within the Aristotelian syllogistic framework. , 2010, , .		3
57	Scalable modeling of thermal dynamics in buildings using fuzzy rules for regression. , 2017, , .		3
58	Graduated Fidelity Lattices for Motion Planning under Uncertainty. , 2019, , .		3
59	Automatic linguistic reporting of customer activity patterns in open malls. Multimedia Tools and Applications, 0, , 1.	2.6	3
60	A Workflow Modeling Framework Enhanced with Problem-Solving Knowledge. Lecture Notes in Computer Science, 2006, , 623-632.	1.0	3
61	Automatic Generation of Air Quality Index Textual Forecasts Using a Data-To-Text Approach. Lecture Notes in Computer Science, 2015, , 164-174.	1.0	3
62	Semantic Annotation of Educational Resources through Linked Data. Lecture Notes in Computer Science, 2011, , 311-320.	1.0	3
63	An Adaptive Multi-resolution State Lattice Approach for Motion Planning with Uncertainty. Advances in Intelligent Systems and Computing, 2016, , 257-268.	0.5	3
64	Application of Petri Nets on the Execution of IMS Learning Design Documents. Lecture Notes in Computer Science, 2008, , 461-466.	1.0	3
65	Automatic generation of textual descriptions in data-to-text systems using a fuzzy temporal ontology: Application in air quality index data series. Applied Soft Computing Journal, 2022, 119, 108612.	4.1	3
66	Ubiquitous environment for processes monitoring in power stations. , 0, , .		2
67	Hybrid Approach for Machine Scheduling Optimization in Custom Furniture Industry. , 2008, , .		2
68	Fuzzy quantification in two real scenarios: Information retrieval and mobile robotics. International Journal of Intelligent Systems, 2009, 24, 572-586.	3.3	2
69	Dynamic Adaptation in OPENET4LD. , 2011, , .		2
70	Semantic Integration of Social Information in Learning Systems. , 2012, , .		2
71	A model based on computational perceptions for the generation of linguistic descriptions of data. , 2015, , .		2
72	Empirical study of fuzzy quantification models for linguistic descriptions of meteorological data. , 2020, , .		2

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73	Fuzzy Knowledge Representation for Linguistic Description of Time Series. , 0, , .		2
74	Meta-heuristics for generation of linguistic descriptions of weather data: Experimental comparison of two approaches. Fuzzy Sets and Systems, 2022, 443, 173-202.	1.6	2
75	Fuzzy Control Architectures. Journal of Intelligent and Fuzzy Systems, 1994, 2, 125-146.	0.8	1
76	People Detection with Quantified Fuzzy Temporal Rules. IEEE International Conference on Fuzzy Systems, 2007, , .	0.0	1
77	An evolutionary approach for learning the weight of relations in linked data. , 2011, , .		1
78	A proposal of fuzzy chained syllogism based on the concept of synonymy. , 2013, , .		1
79	Content Determination for Natural Language Descriptions of Predictive Bayesian Networks. , 0, , .		1
80	Random Set-Based Approaches for Modelling Fuzzy Operators. Lecture Notes in Computer Science, 2003, , 1-25.	1.0	1
81	Simplified Workflow Representation of IMS Learning Design. Lecture Notes in Computer Science, 2011, , 533-546.	1.0	1
82	Iterative Rule Learning of Quantified Fuzzy Rules for control in mobile robotics. , 2011, , .		0
83	A Fuzzy Temporal Rule-Based Approach for the Design of Behaviors in Mobile Robotics. , 2002, , .		0
84	Modelling Fuzzy Quantified Statements under a Voting Model Interpretation of Fuzzy Sets. Lecture Notes in Computer Science, 2003, , 151-158.	1.0	0
85	Knowledge-Based Framework for Workflow Modelling: Application to the Furniture Industry. Lecture Notes in Computer Science, 2010, , 175-184.	1.0	0
86	Techniques and Applications of Fuzzy Systems Based on the Petri-Net Formalism. , 1999, , 1711-1749.		0
87	Enric Trillas: Master, Scientist and Humanist. Studies in Fuzziness and Soft Computing, 2015, , 233-250.	0.6	0
88	Claudio Moraga and the University of Santiago de Compostela: Many Years of Collaboration. Studies in Fuzziness and Soft Computing, 2017, , 265-273.	0.6	0
89	Supporting Content Design with an Eye Tracker: The Case of Weather-based Recommendations. , 2018, , .		0
90	Semi-fuzzy Quantifiers for Information Retrieval. , 0, , 195-220.		0