Rafael Pealoza

List of Publications by Citations

74 papers	593 citations	14 h-index	19 g-index
75 ext. papers	656 ext. citations	1.2 avg, IF	4.52 L-index

#	Paper	IF	Citations
74	Axiom Pinpointing in General Tableaux. *Journal of Logic and Computation*, **2010**, 20, 5-34	0.4	54
73	Pinpointing in the Description Logic (mathcal {EL}^+). *Lecture Notes in Computer Science*, **2007**, 52-67	0.9	51
72	Automata-Based Axiom Pinpointing. *Journal of Automated Reasoning*, **2010**, 45, 91-129	1	29
71	The limits of decidability in fuzzy description logics with general concept inclusions. *Artificial Intelligence*, **2015**, 218, 23-55	3.6	27
70	Understanding the complexity of axiom pinpointing in lightweight description logics. *Artificial Intelligence*, **2017**, 250, 80-104	3.6	19
69	The Complexity of Lattice-Based Fuzzy Description Logics. *Journal on Data Semantics*, **2013**, 2, 1-19	1.4	19
68	Are fuzzy description logics with general concept inclusion axioms decidable? **2011**,		18
67	BEACON: An Efficient SAT-Based Tool for Debugging ({mathcal {EL}}{^+}) Ontologies. *Lecture Notes in Computer Science*, **2016**, 521-530	0.9	17
66	Context-dependent views to axioms and consequences of Semantic Web ontologies. *Web Semantics*, **2012**, 12-13, 22-40	2.9	17
65	Consistency reasoning in lattice-based fuzzy Description Logics. *International Journal of Approximate Reasoning*, **2014**, 55, 1917-1938	3.6	15
64	Axiom Pinpointing in General Tableaux. *Lecture Notes in Computer Science*, **2007**, 11-27	0.9	15
63	Upward refinement operators for conceptual blending in the description logic (mathcal {E}mathcal {L}^{++}). *Annals of Mathematics and Artificial Intelligence*, **2018**, 82, 69-99	0.8	14
62	Representing a reference foundational ontology of events in SROIQ. *Applied Ontology*, **2019**, 14, 293-334	1.4	14
61	The Bayesian Ontology Language (mathcal {BEL}). *Journal of Automated Reasoning*, **2017**, 58, 67-95	1	14
60	Automata can show PSpace results for description logics. *Information and Computation*, **2008**, 206, 1045-1056	0.8	14
59	A Generic Approach for Large-Scale Ontological Reasoning in the Presence of Access Restrictions to the Ontology's Axioms. *Lecture Notes in Computer Science*, **2009**, 49-64	0.9	13
58	On the Undecidability of Fuzzy Description Logics with GCIs and Product T-norm. *Lecture Notes in Computer Science*, **2011**, 55-70	0.9	13

57	Fuzzy Description Logics A Survey. *Lecture Notes in Computer Science*, **2017**, 31-45	0.9	12
56	The Bayesian Description Logic ({mathcal{BEL}}). *Lecture Notes in Computer Science*, **2014**, 480-494	0.9	12
55	Automata-Based Axiom Pinpointing. *Lecture Notes in Computer Science*, **2008**, 226-241	0.9	12
54	On the Decidability Status of Fuzzy (mathcal {A}mathcal {L}mathcal {C}) with General Concept Inclusions. *Journal of Philosophical Logic*, **2015**, 44, 117-146	0.7	9
53	Error-Tolerant Reasoning in the Description Logic (mathcal{E{kern-.1em}L}). *Lecture Notes in Computer Science*, **2014**, 107-121	0.9	9
52	A Hardware/Software Stack for Heterogeneous Systems. *IEEE Transactions on Multi-Scale Computing Systems*, **2018**, 4, 243-259		8
51	Answering Fuzzy Conjunctive Queries Over Finitely Valued Fuzzy Ontologies. *Journal on Data Semantics*, **2016**, 5, 55-75	1.4	8
50	Similarity-based relaxed instance queries. *Journal of Applied Logic*, **2015**, 13, 480-508		8
49	How Fuzzy Is My Fuzzy Description Logic?. *Lecture Notes in Computer Science*, **2012**, 82-96	0.9	8
48	The complexity of fuzzyELunder the kasiewicz T-norm. *International Journal of Approximate Reasoning*, **2017**, 91, 179-201	3.6	7
47	Conjunctive Query Answering in Finitely-Valued Fuzzy Description Logics. *Lecture Notes in Computer Science*, **2014**, 124-139	0.9	7
46	Lean Kernels in Description Logics. *Lecture Notes in Computer Science*, **2017**, 518-533	0.9	7
45	A Tableau Algorithm for Fuzzy Description Logics over Residuated De Morgan Lattices. *Lecture Notes in Computer Science*, **2012**, 9-24	0.9	7
44	Image Schema Combinations and Complex Events. *KI - Kunstliche Intelligenz*, **2019**, 33, 279-291	1.8	6
43	Decidability and Complexity of Fuzzy Description Logics. *KI - Kunstliche Intelligenz*, **2017**, 31, 85-90	1.8	6
42	Fuzzy answer sets approximations. *Theory and Practice of Logic Programming*, **2013**, 13, 753-767	0.8	6
41	Extending Temporal Business Constraints with Uncertainty. *Lecture Notes in Computer Science*, **2020**, 35-54	0.9	6
40	Computing Compliant Anonymisations of Quantified ABoxes w.r.t. (mathcal {EL}) Policies. *Lecture Notes in Computer Science*, **2020**, 3-20	0.9	6

39	Reasoning in Fuzzy Description Logics using Automata. *Fuzzy Sets and Systems*, **2016**, 298, 22-43	3.7	6
38	Algorithms for reasoning in very expressive description logics under infinitely valued Gödel semantics. *International Journal of Approximate Reasoning*, **2017**, 83, 60-101	3.6	5
37	Towards Statistical Reasoning in Description Logics over Finite Domains. *Lecture Notes in Computer Science*, **2017**, 280-294	0.9	5
36	A Practical Approach for Computing Generalization Inferences in (mathcal{EL}). *Lecture Notes in Computer Science*, **2011**, 410-423	0.9	5
35	Efficient Reasoning for Inconsistent Horn Formulae. *Lecture Notes in Computer Science*, **2016**, 336-352	0.9	4
34	Fuzzy answer set computation via satisfiability modulo theories. *Theory and Practice of Logic Programming*, **2015**, 15, 588-603	0.8	4
33	Temporal Logics Over Finite Traces with Uncertainty. *Proceedings of the AAAI Conference on Artificial Intelligence*, **2020**, 34, 10218-10225	5	4
32	Reasoning in ({mathcal{ALC}}) with Fuzzy Concrete Domains. *Lecture Notes in Computer Science*, **2014**, 171-182	0.9	4
31	Probabilistic Query Answering in the Bayesian Description Logic (mathcal {BE{}L}). *Lecture Notes in Computer Science*, **2015**, 21-35	0.9	4
30	A Generic Approach for Correcting Access Restrictions to a Consequence. *Lecture Notes in Computer Science*, **2010**, 167-182	0.9	4
29	A Bayesian Extension of the Description Logic (mathcal {ALC}). *Lecture Notes in Computer Science*, **2019**, 339-354	0.9	3
28	Tight Complexity Bounds for Reasoning in the Description Logic (mathcal{BE{kern-.1em}L}). *Lecture Notes in Computer Science*, **2014**, 77-91	0.9	3
27	Inconsistency-Tolerant Instance Checking in Tractable Description Logics. *Lecture Notes in Computer Science*, **2017**, 215-229	0.9	3
26	Explaining Axiom Pinpointing. *Lecture Notes in Computer Science*, **2019**, 475-496	0.9	2
25	The complexity of computing the behaviour of lattice automata on infinite trees. *Theoretical Computer Science*, **2014**, 534, 53-68	1.1	2
24	Completion-based generalization inferences for the Description Logic ELOR with subjective probabilities. *International Journal of Approximate Reasoning*, **2014**, 55, 1939-1970	3.6	2
23	Repairing Socially Aggregated Ontologies Using Axiom Weakening. *Lecture Notes in Computer Science*, **2017**, 441-449	0.9	2
22	Making Decisions with Knowledge Base Repairs. *Lecture Notes in Computer Science*, **2019**, 259-271	0.9	2

21	Finite Lattices Do Not Make Reasoning in ({mathcal {ALCOI}}) Harder. *Lecture Notes in Computer Science*, **2014**, 122-141	0.9	2
20	Reasoning in Expressive Description Logics under Infinitely Valued G□del Semantics. *Lecture Notes in Computer Science*, **2015**, 49-65	0.9	2
19	Instance-Based Non-standard Inferences in (mathcal{EL}) with Subjective Probabilities. *Lecture Notes in Computer Science*, **2013**, 80-98	0.9	2
18	Error-Tolerance and Error Management in Lightweight Description Logics. *KI - Kunstliche Intelligenz*, **2020**, 34, 491-500	1.8	2
17	A Tool for Computing Probabilistic Trace Alignments. *Lecture Notes in Business Information Processing*, **2021**, 118-126	0.6	2
16	Consequence-Based Axiom Pinpointing. *Lecture Notes in Computer Science*, **2018**, 181-195	0.9	1
15	The Fuzzy Description Logic (mathsf{G}text{-}{mathcal{F!L}_0}) with Greatest Fixed-Point Semantics. *Lecture Notes in Computer Science*, **2014**, 62-76	0.9	1
14	An Automata View to Goal-Directed Methods. *Lecture Notes in Computer Science*, **2017**, 103-114	0.9	1
13	Using Sums-of-Products for Non-standard Reasoning. *Lecture Notes in Computer Science*, **2010**, 488-499	0.9	1
12	Computing Role-Depth Bounded Generalizations in the Description Logic (mathcal{ELOR}). *Lecture Notes in Computer Science*, **2013**, 49-60	0.9	1
11	SATPin: Axiom Pinpointing for Lightweight Description Logics Through Incremental SAT. *KI - Kunstliche Intelligenz*, **2020**, 34, 389-394	1.8	1
10	Probabilistic Reasoning in the Description Logic (mathcal {ALCP}) with the Principle of Maximum Entropy. *Lecture Notes in Computer Science*, **2016**, 246-259	0.9	1
9	A Brief Roadmap into Uncertain Knowledge Representation via Probabilistic Description Logics. *Algorithms*, **2021**, 14, 280	1.8	1
8	Probabilistic declarative process mining. *Information Systems*, **2022**, 102033	2.7	1
7	Union and Intersection of All Justifications. *Lecture Notes in Computer Science*, **2022**, 56-73	0.9	1
6	Roughening the (mathcal{EL}) Envelope. *Lecture Notes in Computer Science*, **2013**, 71-86	0.9	0
5	The Probabilistic Description Logic. *Theory and Practice of Logic Programming*, **2020**, 1-24	0.8	
4	Query Answering in Fuzzy DL-Lite with Graded Axioms. *Lecture Notes in Computer Science*, **2020**, 39-53	0.9	

3	Answering Fuzzy Queries over Fuzzy DL-Lite Ontologies. *Theory and Practice of Logic Programming*,1-30	0.8
2	Introduction to Probabilistic Ontologies. *Lecture Notes in Computer Science*, **2020**, 1-35	0.9
1	Detecting Emergent Phenomena in Cellular Automata Using Temporal Description Logics. *Lecture Notes in Computer Science*, **2014**, 357-366	0.9