

Rafael Pealoza

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	Probabilistic declarative process mining. <i>Information Systems</i> , 2022 , 102033	2.7	1
73	Union and Intersection of All Justifications. <i>Lecture Notes in Computer Science</i> , 2022 , 56-73	0.9	1
72	A Brief Roadmap into Uncertain Knowledge Representation via Probabilistic Description Logics. <i>Algorithms</i> , 2021 , 14, 280	1.8	1
71	A Tool for Computing Probabilistic Trace Alignments. <i>Lecture Notes in Business Information Processing</i> , 2021 , 118-126	0.6	2
70	The Probabilistic Description Logic. <i>Theory and Practice of Logic Programming</i> , 2020 , 1-24	0.8	
69	Temporal Logics Over Finite Traces with Uncertainty. <i>Proceedings of the AAAI Conference on Artificial Intelligence</i> , 2020 , 34, 10218-10225	5	4
68	Query Answering in Fuzzy DL-Lite with Graded Axioms. <i>Lecture Notes in Computer Science</i> , 2020 , 39-53	0.9	
67	Extending Temporal Business Constraints with Uncertainty. <i>Lecture Notes in Computer Science</i> , 2020 , 35-54	0.9	6
66	Introduction to Probabilistic Ontologies. <i>Lecture Notes in Computer Science</i> , 2020 , 1-35	0.9	
65	Computing Compliant Anonymisations of Quantified ABoxes w.r.t. (mathcal {EL}) Policies. <i>Lecture Notes in Computer Science</i> , 2020 , 3-20	0.9	6
64	SATPin: Axiom Pinpointing for Lightweight Description Logics Through Incremental SAT. <i>KI - Kunstliche Intelligenz</i> , 2020 , 34, 389-394	1.8	1
63	Error-Tolerance and Error Management in Lightweight Description Logics. <i>KI - Kunstliche Intelligenz</i> , 2020 , 34, 491-500	1.8	2
62	A Bayesian Extension of the Description Logic (mathcal {ALC}). <i>Lecture Notes in Computer Science</i> , 2019 , 339-354	0.9	3
61	Representing a reference foundational ontology of events in SROIQ. <i>Applied Ontology</i> , 2019 , 14, 293-334	4	14
60	Image Schema Combinations and Complex Events. <i>KI - Kunstliche Intelligenz</i> , 2019 , 33, 279-291	1.8	6
59	Explaining Axiom Pinpointing. <i>Lecture Notes in Computer Science</i> , 2019 , 475-496	0.9	2
58	Making Decisions with Knowledge Base Repairs. <i>Lecture Notes in Computer Science</i> , 2019 , 259-271	0.9	2

57	A Hardware/Software Stack for Heterogeneous Systems. <i>IEEE Transactions on Multi-Scale Computing Systems</i> , 2018 , 4, 243-259		8
56	Upward refinement operators for conceptual blending in the description logic (mathcal {E}mathcal {L}^{++}). <i>Annals of Mathematics and Artificial Intelligence</i> , 2018 , 82, 69-99	0.8	14
55	Consequence-Based Axiom Pinpointing. <i>Lecture Notes in Computer Science</i> , 2018 , 181-195	0.9	1
54	Algorithms for reasoning in very expressive description logics under infinitely valued G�el semantics. <i>International Journal of Approximate Reasoning</i> , 2017 , 83, 60-101	3.6	5
53	Understanding the complexity of axiom pinpointing in lightweight description logics. <i>Artificial Intelligence</i> , 2017 , 250, 80-104	3.6	19
52	The complexity of fuzzyEL under the �kasiewicz T-norm. <i>International Journal of Approximate Reasoning</i> , 2017 , 91, 179-201	3.6	7
51	Fuzzy Description Logics � A Survey. <i>Lecture Notes in Computer Science</i> , 2017 , 31-45	0.9	12
50	Repairing Socially Aggregated Ontologies Using Axiom Weakening. <i>Lecture Notes in Computer Science</i> , 2017 , 441-449	0.9	2
49	Decidability and Complexity of Fuzzy Description Logics. <i>KI - Kunstliche Intelligenz</i> , 2017 , 31, 85-90	1.8	6
48	The Bayesian Ontology Language (mathcal {BEL}). <i>Journal of Automated Reasoning</i> , 2017 , 58, 67-95	1	14
47	Lean Kernels in Description Logics. <i>Lecture Notes in Computer Science</i> , 2017 , 518-533	0.9	7
46	Inconsistency-Tolerant Instance Checking in Tractable Description Logics. <i>Lecture Notes in Computer Science</i> , 2017 , 215-229	0.9	3
45	Towards Statistical Reasoning in Description Logics over Finite Domains. <i>Lecture Notes in Computer Science</i> , 2017 , 280-294	0.9	5
44	An Automata View to Goal-Directed Methods. <i>Lecture Notes in Computer Science</i> , 2017 , 103-114	0.9	1
43	Efficient Reasoning for Inconsistent Horn Formulae. <i>Lecture Notes in Computer Science</i> , 2016 , 336-352	0.9	4
42	Answering Fuzzy Conjunctive Queries Over Finitely Valued Fuzzy Ontologies. <i>Journal on Data Semantics</i> , 2016 , 5, 55-75	1.4	8
41	BEACON: An Efficient SAT-Based Tool for Debugging (mathcal {EL}^{++}) Ontologies. <i>Lecture Notes in Computer Science</i> , 2016 , 521-530	0.9	17
40	Reasoning in Fuzzy Description Logics using Automata. <i>Fuzzy Sets and Systems</i> , 2016 , 298, 22-43	3.7	6

39	Probabilistic Reasoning in the Description Logic (\mathcal{ALCP}) with the Principle of Maximum Entropy. <i>Lecture Notes in Computer Science</i> , 2016 , 246-259	0.9	1
38	On the Decidability Status of Fuzzy (\mathcal{A}) \mathcal{L} \mathcal{C}) with General Concept Inclusions. <i>Journal of Philosophical Logic</i> , 2015 , 44, 117-146	0.7	9
37	The limits of decidability in fuzzy description logics with general concept inclusions. <i>Artificial Intelligence</i> , 2015 , 218, 23-55	3.6	27
36	Fuzzy answer set computation via satisfiability modulo theories. <i>Theory and Practice of Logic Programming</i> , 2015 , 15, 588-603	0.8	4
35	Similarity-based relaxed instance queries. <i>Journal of Applied Logic</i> , 2015 , 13, 480-508		8
34	Probabilistic Query Answering in the Bayesian Description Logic ($\mathcal{BE}\mathcal{L}$). <i>Lecture Notes in Computer Science</i> , 2015 , 21-35	0.9	4
33	Reasoning in Expressive Description Logics under Infinitely Valued Gödel Semantics. <i>Lecture Notes in Computer Science</i> , 2015 , 49-65	0.9	2
32	The complexity of computing the behaviour of lattice automata on infinite trees. <i>Theoretical Computer Science</i> , 2014 , 534, 53-68	1.1	2
31	Completion-based generalization inferences for the Description Logic ELOR with subjective probabilities. <i>International Journal of Approximate Reasoning</i> , 2014 , 55, 1939-1970	3.6	2
30	Consistency reasoning in lattice-based fuzzy Description Logics. <i>International Journal of Approximate Reasoning</i> , 2014 , 55, 1917-1938	3.6	15
29	The Bayesian Description Logic (\mathcal{BEL}). <i>Lecture Notes in Computer Science</i> , 2014 , 480-494	0.9	12
28	Conjunctive Query Answering in Finitely-Valued Fuzzy Description Logics. <i>Lecture Notes in Computer Science</i> , 2014 , 124-139	0.9	7
27	Reasoning in (\mathcal{ALC}) with Fuzzy Concrete Domains. <i>Lecture Notes in Computer Science</i> , 2014 , 171-182	0.9	4
26	The Fuzzy Description Logic ($\mathcal{G}\text{-}\mathcal{F!L}_0$) with Greatest Fixed-Point Semantics. <i>Lecture Notes in Computer Science</i> , 2014 , 62-76	0.9	1
25	Tight Complexity Bounds for Reasoning in the Description Logic ($\mathcal{BE}\mathcal{L}$). <i>Lecture Notes in Computer Science</i> , 2014 , 77-91	0.9	3
24	Error-Tolerant Reasoning in the Description Logic ($\mathcal{E}\mathcal{L}$). <i>Lecture Notes in Computer Science</i> , 2014 , 107-121	0.9	9
23	Finite Lattices Do Not Make Reasoning in (\mathcal{ALCOI}) Harder. <i>Lecture Notes in Computer Science</i> , 2014 , 122-141	0.9	2
22	Detecting Emergent Phenomena in Cellular Automata Using Temporal Description Logics. <i>Lecture Notes in Computer Science</i> , 2014 , 357-366	0.9	

21	The Complexity of Lattice-Based Fuzzy Description Logics. <i>Journal on Data Semantics</i> , 2013 , 2, 1-19	1.4	19
20	Fuzzy answer sets approximations. <i>Theory and Practice of Logic Programming</i> , 2013 , 13, 753-767	0.8	6
19	Instance-Based Non-standard Inferences in $\{\text{EL}\}$ with Subjective Probabilities. <i>Lecture Notes in Computer Science</i> , 2013 , 80-98	0.9	2
18	Roughening the $\{\text{EL}\}$ Envelope. <i>Lecture Notes in Computer Science</i> , 2013 , 71-86	0.9	0
17	Computing Role-Depth Bounded Generalizations in the Description Logic $\{\text{ELOR}\}$. <i>Lecture Notes in Computer Science</i> , 2013 , 49-60	0.9	1
16	Context-dependent views to axioms and consequences of Semantic Web ontologies. <i>Web Semantics</i> , 2012 , 12-13, 22-40	2.9	17
15	How Fuzzy Is My Fuzzy Description Logic?. <i>Lecture Notes in Computer Science</i> , 2012 , 82-96	0.9	8
14	A Tableau Algorithm for Fuzzy Description Logics over Residuated De Morgan Lattices. <i>Lecture Notes in Computer Science</i> , 2012 , 9-24	0.9	7
13	Are fuzzy description logics with general concept inclusion axioms decidable? 2011 ,		18
12	A Practical Approach for Computing Generalization Inferences in $\{\text{EL}\}$. <i>Lecture Notes in Computer Science</i> , 2011 , 410-423	0.9	5
11	On the Undecidability of Fuzzy Description Logics with GCIs and Product T-norm. <i>Lecture Notes in Computer Science</i> , 2011 , 55-70	0.9	13
10	Axiom Pinpointing in General Tableaux. <i>Journal of Logic and Computation</i> , 2010 , 20, 5-34	0.4	54
9	Automata-Based Axiom Pinpointing. <i>Journal of Automated Reasoning</i> , 2010 , 45, 91-129	1	29
8	Using Sums-of-Products for Non-standard Reasoning. <i>Lecture Notes in Computer Science</i> , 2010 , 488-499	0.9	1
7	A Generic Approach for Correcting Access Restrictions to a Consequence. <i>Lecture Notes in Computer Science</i> , 2010 , 167-182	0.9	4
6	A Generic Approach for Large-Scale Ontological Reasoning in the Presence of Access Restrictions to the Ontology's Axioms. <i>Lecture Notes in Computer Science</i> , 2009 , 49-64	0.9	13
5	Automata can show PSpace results for description logics. <i>Information and Computation</i> , 2008 , 206, 1045-1056	1.856	14
4	Automata-Based Axiom Pinpointing. <i>Lecture Notes in Computer Science</i> , 2008 , 226-241	0.9	12

- 3 Axiom Pinpointing in General Tableaux. *Lecture Notes in Computer Science*, **2007**, 11-27 0.9 15
- 2 Pinpointing in the Description Logic (mathcal{EL}^+). *Lecture Notes in Computer Science*, **2007**, 52-67 0.9 51
- 1 Answering Fuzzy Queries over Fuzzy DL-Lite Ontologies. *Theory and Practice of Logic Programming*, 1-30 0.8