

# Thomas Lukasiewicz

## List of Publications by Year in descending order

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143  
papers

3,220  
citations

249298

26  
h-index

242451

47  
g-index

161  
all docs

161  
docs citations

161  
times ranked

1303  
citing authors

#	ARTICLE	IF	CITATIONS
1	Complexity results for preference aggregation over (m)CP-nets: Max and rank voting. Artificial Intelligence, 2022, 303, 103636.	3.9	2
2	Toward Knowledge as a Service (KaaS): Predicting Popularity of Knowledge Services Leveraging Graph Neural Networks. IEEE Transactions on Services Computing, 2022, , 1-1.	3.2	2
3	Inconsistency-tolerant query answering for existential rules. Artificial Intelligence, 2022, 307, 103685.	3.9	3
4	$\langle \text{mml:math xmlns:mml}=\text{"http://www.w3.org/1998/Math/MathML"} \text{ altimg}=\text{"si10.svg"} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mi} \rangle 1\% \langle \text{mml:mi} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:math} \rangle$ -net: Dual supervised medical image segmentation with multi-dimensional self-attention and diversely-connected multi-scale convolution. Neurocomputing, 2022, 500, 177-190.	3.5	27
5	Predictive Coding: Towards a Future of Deep Learning beyond Backpropagation?. , 2022, , .		8
6	Selective Pseudo-Label Clustering. Lecture Notes in Computer Science, 2021, , 158-178.	1.0	3
7	Controlling Text Edition by Changing Answers of Specific Questions. , 2021, , .		0
8	An ontology-based deep learning approach for triple classification with out-of-knowledge-base entities. Information Sciences, 2021, 564, 85-102.	4.0	8
9	The Surprising Power of Graph Neural Networks with Random Node Initialization. , 2021, , .		20
10	Deep Bayesian Gaussian processes for uncertainty estimation in electronic health records. Scientific Reports, 2021, 11, 20685.	1.6	13
11	Stable Model Semantics for Guarded Existential Rules and Description Logics: Decidability and Complexity. Journal of the ACM, 2021, 68, 1-87.	1.8	0
12	Knowledge Base Completion Meets Transfer Learning. , 2021, , .		1
13	Lightweight Visual Question Answering using Scene Graphs. , 2021, , .		5
14	e-ViL: A Dataset and Benchmark for Natural Language Explanations in Vision-Language Tasks. , 2021, , .		22
15	Combining RDF and SPARQL with CP-theories to reason about preferences in a Linked Data setting. Semantic Web, 2020, 11, 391-419.	1.1	6
16	An Ontology-Based Deep Learning Approach for Knowledge Graph Completion with Fresh Entities. Advances in Intelligent Systems and Computing, 2020, , 125-133.	0.5	0
17	Hybrid Deep-Semantic Matrix Factorization for Tag-Aware Personalized Recommendation. , 2020, , .		5
18	Partially observable game-theoretic agent programming in Golog. International Journal of Approximate Reasoning, 2020, 119, 220-241.	1.9	1

#	ARTICLE	IF	CITATIONS
19	Explanations for Negative Query Answers under Existential Rules. , 2020, , .		6
20	Knowledge Graph Extraction from Videos. , 2020, , .		8
21	Extracting Outcomes from Appellate Decisions in US State Courts. <i>Frontiers in Artificial Intelligence and Applications</i> , 2020, , .	0.3	5
22	Systematic Comparison of Neural Architectures and Training Approaches for Open Information Extraction. , 2020, , .		5
23	Does the Objective Matter? Comparing Training Objectives for Pronoun Resolution. , 2020, , .		0
24	Ontology Reasoning with Deep Neural Networks (Extended Abstract). , 2020, , .		0
25	Can the Brain Do Backpropagation? -Exact Implementation of Backpropagation in Predictive Coding Networks. <i>Advances in Neural Information Processing Systems</i> , 2020, 33, 22566-22579.	2.8	5
26	Long Text Analysis Using Sliced Recurrent Neural Networks with Breaking Point Information Enrichment. , 2019, , .		7
27	Complexity results for preference aggregation over (m)CP-nets: Pareto and majority voting. <i>Artificial Intelligence</i> , 2019, 272, 101-142.	3.9	6
28	Diversity-Driven Extensible Hierarchical Reinforcement Learning. <i>Proceedings of the AAAI Conference on Artificial Intelligence</i> , 2019, 33, 4992-4999.	3.6	10
29	Complexity of Inconsistency-Tolerant Query Answering in Datalog+/" under Cardinality-Based Repairs. <i>Proceedings of the AAAI Conference on Artificial Intelligence</i> , 2019, 33, 2962-2969.	3.6	5
30	Ontology-Mediated Query Answering over Log-Linear Probabilistic Data. <i>Proceedings of the AAAI Conference on Artificial Intelligence</i> , 2019, 33, 2711-2718.	3.6	4
31	Explanations for Query Answers under Existential Rules. , 2019, , .		5
32	Ontological query answering under many-valued group preferences in Datalog+/" . <i>International Journal of Approximate Reasoning</i> , 2018, 93, 354-371.	1.9	4
33	A Tutorial on Query Answering and Reasoning over Probabilistic Knowledge Bases. <i>Lecture Notes in Computer Science</i> , 2018, , 35-77.	1.0	1
34	Learning Structured Video Descriptions: Automated Video Knowledge Extraction for Video Understanding Tasks. <i>Lecture Notes in Computer Science</i> , 2018, , 315-332.	1.0	2
35	Lightweight Tag-Aware Personalized Recommendation on the Social Web Using Ontological Similarity. <i>IEEE Access</i> , 2018, 6, 35590-35610.	2.6	9
36	Complexity of Approximate Query Answering under Inconsistency in Datalog+/- , 2018, , .		8

#	ARTICLE	IF	CITATIONS
37	Recent Advances in Querying Probabilistic Knowledge Bases. , 2018, , .		7
38	Many Facets of Reasoning Under Uncertainty, Inconsistency, Vagueness, and Preferences: A Brief Survey. KI - Kunstliche Intelligenz, 2017, 31, 9-13.	2.2	2
39	Location-Aware Personalized News Recommendation With Deep Semantic Analysis. IEEE Access, 2017, 5, 1624-1638.	2.6	37
40	Location-Aware News Recommendation Using Deep Localized Semantic Analysis. Lecture Notes in Computer Science, 2017, , 507-524.	1.0	6
41	Ontology-Based Data Access with Datalog+/ $\hat{\sim}$ . SpringerBriefs in Computer Science, 2017, , 1-21.	0.2	0
42	A novel characterization of the complexity class $\text{Datalog}^{\text{P}}_{\text{P}}(\text{P})$ . $\text{Datalog}^{\text{P}}_{\text{P}}(\text{P})$ based on counting and comparison. Theoretical Computer Science, 2017, 694, 21-33.	0.5	9
43	Special Issue on Challenges for Reasoning under Uncertainty, Inconsistency, Vagueness, and Preferences. KI - Kunstliche Intelligenz, 2017, 31, 5-8.	2.2	2
44	Uncertainty Reasoning for the Semantic Web. Lecture Notes in Computer Science, 2017, , 276-291.	1.0	0
45	Tag-Aware Personalized Recommendation Using a Deep-Semantic Similarity Model with Negative Sampling. , 2016, , .		53
46	Existential Rules and Bayesian Networks for Probabilistic Ontological Data Exchange. Lecture Notes in Computer Science, 2015, , 294-310.	1.0	2
47	Preference Queries with Ceteris Paribus Semantics for Linked Data. Lecture Notes in Computer Science, 2015, , 423-442.	1.0	6
48	Preference-Based Query Answering in Probabilistic Datalog+/ $\hat{\sim}$ Ontologies. Journal on Data Semantics, 2015, 4, 81-101.	2.0	10
49	Ontology-Based Query Answering with Group Preferences. ACM Transactions on Internet Technology, 2014, 14, 1-24.	3.0	7
50	Information Integration with Provenance on the Semantic Web via Probabilistic Datalog+/ $\hat{\sim}$ . Lecture Notes in Computer Science, 2014, , 41-62.	1.0	1
51	Ontological CP-Nets. Lecture Notes in Computer Science, 2014, , 289-308.	1.0	1
52	Answering Ontological Ranking Queries Based on Subjective Reports. Lecture Notes in Computer Science, 2014, , 223-236.	1.0	0
53	Query answering under probabilistic uncertainty in Datalog+/ $\hat{\sim}$ ontologies. Annals of Mathematics and Artificial Intelligence, 2013, 69, 37-72.	0.9	32
54	Semantic Web Search and Inductive Reasoning. Lecture Notes in Computer Science, 2013, , 237-261.	1.0	2

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55	Well-founded semantics for extended datalog and ontological reasoning. , 2013, , .		15
56	Query Answering in Probabilistic Datalog $\pm$ Ontologies under Group Preferences. , 2013, , .		2
57	Group Preferences for Query Answering in Datalog $\pm$ Ontologies. Lecture Notes in Computer Science, 2013, , 360-373.	1.0	3
58	Reasoning with Semantic-Enabled Qualitative Preferences. Lecture Notes in Computer Science, 2013, , 374-386.	1.0	3
59	Complexity of Inconsistency-Tolerant Query Answering in Datalog $\pm$ . Lecture Notes in Computer Science, 2013, , 488-500.	1.0	13
60	Preference-Based Query Answering in Probabilistic Datalog $\pm$ Ontologies. Lecture Notes in Computer Science, 2013, , 501-518.	1.0	5
61	Tractable Probabilistic Description Logic Programs. Studies in Fuzziness and Soft Computing, 2013, , 131-159.	0.6	0
62	Representing Uncertain Concepts in Rough Description Logics via Contextual Indiscernibility Relations. Lecture Notes in Computer Science, 2013, , 300-314.	1.0	4
63	Query Answering in Datalog $\pm$ Ontologies under Group Preferences and Probabilistic Uncertainty. Lecture Notes in Computer Science, 2013, , 192-206.	1.0	1
64	A general Datalog-based framework for tractable query answering over ontologies. Web Semantics, 2012, 14, 57-83.	2.2	222
65	Ontology-based semantic search on the Web and its combination with the power of inductive reasoning. Annals of Mathematics and Artificial Intelligence, 2012, 65, 83-121.	0.9	13
66	Consistent Answers in Probabilistic Datalog $\pm$ Ontologies. Lecture Notes in Computer Science, 2012, , 156-171.	1.0	3
67	Semantic Web search based on ontological conjunctive queries. Web Semantics, 2011, 9, 453-473.	2.2	37
68	Tightly integrated probabilistic description logic programs for representing ontology mappings. Annals of Mathematics and Artificial Intelligence, 2011, 63, 385-425.	0.9	12
69	Well-founded semantics for description logic programs in the semantic web. ACM Transactions on Computational Logic, 2011, 12, 1-41.	0.7	41
70	A logical toolbox for ontological reasoning. SIGMOD Record, 2011, 40, 5-14.	0.7	13
71	Conjunctive Query Answering in Probabilistic Datalog $\pm$ Ontologies. Lecture Notes in Computer Science, 2011, , 77-92.	1.0	9
72	Answering Threshold Queries in Probabilistic Datalog $\pm$ Ontologies. Lecture Notes in Computer Science, 2011, , 401-414.	1.0	6

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73	Datalog+/-: A Family of Languages for Ontology Querying. Lecture Notes in Computer Science, 2011, , 351-368.	1.0	15
74	Semantic search on the Web. Semantic Web, 2010, 1, 89-96.	1.1	28
75	A Novel Combination of Answer Set Programming with Description Logics for the Semantic Web. IEEE Transactions on Knowledge and Data Engineering, 2010, 22, 1577-1592.	4.0	28
76	Combining Semantic Web Search with the Power of Inductive Reasoning. Lecture Notes in Computer Science, 2010, , 137-150.	1.0	9
77	Datalog+/-: A Family of Logical Knowledge Representation and Query Languages for New Applications. , 2010, , .		78
78	Semantic Web Search Based on Ontological Conjunctive Queries. Lecture Notes in Computer Science, 2010, , 153-172.	1.0	15
79	Tightly Coupled Fuzzy Description Logic Programs under the Answer Set Semantics for the Semantic Web. Advances in Semantic Web and Information Systems Series, 2010, , 237-256.	0.0	1
80	Reasoning about actions with sensing under qualitative and probabilistic uncertainty. ACM Transactions on Computational Logic, 2009, 10, 1-41.	0.7	15
81	Description logic programs under probabilistic uncertainty and fuzzy vagueness. International Journal of Approximate Reasoning, 2009, 50, 837-853.	1.9	56
82	A general datalog-based framework for tractable query answering over ontologies. , 2009, , .		114
83	Tightly Coupled Probabilistic Description Logic Programs for the Semantic Web. Lecture Notes in Computer Science, 2009, , 95-130.	1.0	16
84	Uncertainty in the Semantic Web. Lecture Notes in Computer Science, 2009, , 2-11.	1.0	1
85	Hybrid Reasoning with Rules and Ontologies. Lecture Notes in Computer Science, 2009, , 1-49.	1.0	20
86	Uncertainty Representation and Reasoning in the Semantic Web. , 2009, , 315-340.		9
87	Uncertainty Reasoning for the Semantic Web. Lecture Notes in Computer Science, 2009, , 26-39.	1.0	2
88	Combining answer set programming with description logics for the Semantic Web. Artificial Intelligence, 2008, 172, 1495-1539.	3.9	224
89	Managing uncertainty and vagueness in description logics for the Semantic Web. Web Semantics, 2008, 6, 291-308.	2.2	329
90	Expressive probabilistic description logics. Artificial Intelligence, 2008, 172, 852-883.	3.9	157

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91	Probabilistic description logic programs under inheritance with overriding for the Semantic Web. <i>International Journal of Approximate Reasoning</i> , 2008, 49, 18-34.	1.9	11
92	Using search strategies and a description logic paradigm with conditional preferences for literature search. <i>International Journal of Metadata, Semantics and Ontologies</i> , 2008, 3, 68.	0.2	1
93	Managing Uncertainty and Vagueness in Description Logics for the Semantic Web. <i>SSRN Electronic Journal</i> , 2008, , .	0.4	9
94	Tightly Coupled Fuzzy Description Logic Programs under the Answer Set Semantics for the Semantic Web. <i>International Journal on Semantic Web and Information Systems</i> , 2008, 4, 68-89.	2.2	19
95	Tractable Reasoning with Bayesian Description Logics. <i>Lecture Notes in Computer Science</i> , 2008, , 146-159.	1.0	36
96	Rule-Based Approaches for Representing Probabilistic Ontology Mappings. <i>Lecture Notes in Computer Science</i> , 2008, , 66-87.	1.0	8
97	Tightly Integrated Probabilistic Description Logic Programs for Representing Ontology Mappings. , 2008, , 178-198.		13
98	A Novel Combination of Answer Set Programming with Description Logics for the Semantic Web. <i>Lecture Notes in Computer Science</i> , 2007, , 384-398.	1.0	32
99	Variable-strength conditional preferences for ranking objects in ontologies. <i>Web Semantics</i> , 2007, 5, 180-194.	2.2	14
100	Probabilistic description logic programs. <i>International Journal of Approximate Reasoning</i> , 2007, 45, 288-307.	1.9	54
101	Nonmonotonic probabilistic logics under variable-strength inheritance with overriding: Complexity, algorithms, and implementation. <i>International Journal of Approximate Reasoning</i> , 2007, 44, 301-321.	1.9	14
102	Tightly Integrated Fuzzy Description Logic Programs Under the Answer Set Semantics for the Semantic Web. , 2007, , 289-298.		34
103	Tightly Integrated Probabilistic Description Logic Programs for the Semantic Web. , 2007, , 428-429.		15
104	Description Logic Programs Under Probabilistic Uncertainty and Fuzzy Vagueness. <i>Lecture Notes in Computer Science</i> , 2007, , 187-198.	1.0	14
105	Tractable Probabilistic Description Logic Programs. <i>Lecture Notes in Computer Science</i> , 2007, , 143-156.	1.0	11
106	Top-k Retrieval in Description Logic Programs Under Vagueness for the Semantic Web. <i>Lecture Notes in Computer Science</i> , 2007, , 16-30.	1.0	31
107	Game-Theoretic Agent Programming in Golog Under Partial Observability. <i>Lecture Notes in Computer Science</i> , 2007, , 113-127.	1.0	2
108	Adaptive Multi-agent Programming in GTGolog. <i>Lecture Notes in Computer Science</i> , 2007, , 389-403.	1.0	4

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109	Fuzzy Description Logic Programs under the Answer Set Semantics for the Semantic Web. , 2006, , .		26
110	Causes and explanations in the structural-model approach: Tractable cases. Artificial Intelligence, 2006, 170, 542-580.	3.9	17
111	Variable-Strength Conditional Preferences for Ranking Objects in Ontologies. Lecture Notes in Computer Science, 2006, , 288-302.	1.0	3
112	Weak nonmonotonic probabilistic logics. Artificial Intelligence, 2005, 168, 119-161.	3.9	66
113	Probabilistic logic under coherence: complexity and algorithms. Annals of Mathematics and Artificial Intelligence, 2005, 45, 35-81.	0.9	67
114	Nonmonotonic probabilistic reasoning under variable-strength inheritance with overriding. Synthèse, 2005, 146, 153-169.	0.6	3
115	Probabilistic Description Logic Programs. Lecture Notes in Computer Science, 2005, , 737-749.	1.0	19
116	Game theoretic Golog under partial observability. , 2005, , .		3
117	Game-Theoretic Reasoning About Actions in Nonmonotonic Causal Theories. Lecture Notes in Computer Science, 2005, , 185-197.	1.0	4
118	Complexity results for explanations in the structural-model approach. Artificial Intelligence, 2004, 154, 145-198.	3.9	11
119	Combining probabilistic logic programming with the power of maximum entropy. Artificial Intelligence, 2004, 157, 139-202.	3.9	55
120	Well-Founded Semantics for Description Logic Programs in the Semantic Web. Lecture Notes in Computer Science, 2004, , 81-97.	1.0	51
121	Relational Markov Games. Lecture Notes in Computer Science, 2004, , 320-333.	1.0	3
122	Probabilistic logic under coherence, model-theoretic probabilistic logic, and default reasoning in SystemP. Journal of Applied Non-Classical Logics, 2002, 12, 189-213.	0.4	38
123	Complexity results for structure-based causality. Artificial Intelligence, 2002, 142, 53-89.	3.9	43
124	Probabilistic Default Reasoning with Conditional Constraints. Annals of Mathematics and Artificial Intelligence, 2002, 34, 35-88.	0.9	65
125	$\mathcal{P}(\mathcal{S}, \mathcal{H}, \mathcal{O}, \mathcal{Q}) \mathcal{D}$ : A Probabilistic Extension of $\mathcal{P}(\mathcal{S}, \mathcal{H}, \mathcal{O}, \mathcal{Q}) \mathcal{D}$ for Probabilistic Ontologies in the Semantic Web. Lecture Notes in Computer Science, 2002, , 86-97.	1.0	75
126	A data model and algebra for probabilistic complex values. Annals of Mathematics and Artificial Intelligence, 2001, 33, 205-252.	0.9	21



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127	Probabilistic logic programming with conditional constraints. ACM Transactions on Computational Logic, 2001, 2, 289-339.	0.7	74
128	Probabilistic object bases. ACM Transactions on Database Systems, 2001, 26, 264-312.	1.5	51
129	Probabilistic Logic under Coherence, Model-Theoretic Probabilistic Logic, and Default Reasoning. Lecture Notes in Computer Science, 2001, , 290-302.	1.0	6
130	Fixpoint Characterizations for Many-Valued Disjunctive Logic Programs with Probabilistic Semantics. Lecture Notes in Computer Science, 2001, , 336-350.	1.0	6
131	Default reasoning from conditional knowledge bases: Complexity and tractable cases. Artificial Intelligence, 2000, 124, 169-241.	3.9	36
132	Extension of the Relational Algebra to Probabilistic Complex Values. Lecture Notes in Computer Science, 2000, , 94-115.	1.0	13
133	New Tractable Cases in Default Reasoning from Conditional Knowledge Bases. Lecture Notes in Computer Science, 2000, , 313-328.	1.0	1
134	Local probabilistic deduction from taxonomic and probabilistic knowledge-bases over conjunctive events. International Journal of Approximate Reasoning, 1999, 21, 23-61.	1.9	37
135	Many-Valued Disjunctive Logic Programs with Probabilistic Semantics. Lecture Notes in Computer Science, 1999, , 277-289.	1.0	17
136	Probabilistic Logic Programming under Maximum Entropy. Lecture Notes in Computer Science, 1999, , 279-292.	1.0	12
137	Many-Valued First-Order Logics with Probabilistic Semantics. Lecture Notes in Computer Science, 1999, , 415-429.	1.0	5
138	Efficient global probabilistic deduction from taxonomic and probabilistic knowledge-bases over conjunctive events. , 1997, , .		7
139	Taxonomic and uncertain integrity constraints in object-oriented databases—the TOP approach. , 1995, , .		0
140	Uncertain reasoning in concept lattices. Lecture Notes in Computer Science, 1995, , 293-300.	1.0	6
141	Ontology Reasoning with Deep Neural Networks. Journal of Artificial Intelligence Research, 0, 68, .	7.0	32
142	Probabilistic Deduction with Conditional Constraints over Basic Events. Journal of Artificial Intelligence Research, 0, 10, 199-241.	7.0	59
143	Multi-Label Classification Neural Networks with Hard Logical Constraints. Journal of Artificial Intelligence Research, 0, 72, 759-818.	7.0	9