

# Ralf MÃjller

## List of Publications by Year in descending order

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74  
papers

1,280  
citations

567144

15  
h-index

395590

33  
g-index

84  
all docs

84  
docs citations

84  
times ranked

752  
citing authors

#	ARTICLE	IF	CITATIONS
1	RACER System Description. Lecture Notes in Computer Science, 2001, , 701-705.	1.0	417
2	On scene interpretation with description logics. Image and Vision Computing, 2008, 26, 82-101.	2.7	93
3	The RacerPro knowledge representation and reasoning system. Semantic Web, 2012, 3, 267-277.	1.1	90
4	Semantic access to streaming and static data at Siemens. Web Semantics, 2017, 44, 54-74.	2.2	75
5	A description logic with concrete domains and a role-forming predicate operator. Journal of Logic and Computation, 1999, 9, 351-384.	0.5	62
6	Flexible software architectures for ontology-based information systems. Journal of Applied Logic, 2009, 7, 75-99.	1.1	47
7	A Stream-Temporal Query Language for Ontology Based Data Access. Lecture Notes in Computer Science, 2014, , 183-194.	1.0	30
8	On the Scalability of Description Logic Instance Retrieval. Journal of Automated Reasoning, 2008, 41, 99-142.	1.1	28
9	Ontology-Based Reasoning Techniques for Multimedia Interpretation and Retrieval. , 2008, , 55-98.		28
10	Lifted Junction Tree Algorithm. Lecture Notes in Computer Science, 2016, , 30-42.	1.0	27
11	The Description Logic ALCNH R + Extended with Concrete Domains: A Practically Motivated Approach. Lecture Notes in Computer Science, 2001, , 29-44.	1.0	24
12	Mapping Validation by Probabilistic Reasoning. , 2008, , 170-184.		21
13	Towards Analytics Aware Ontology Based Access to Static and Streaming Data. Lecture Notes in Computer Science, 2016, , 344-362.	1.0	19
14	Exploiting Pseudo Models for TBox and ABox Reasoning in Expressive Description Logics. Lecture Notes in Computer Science, 2001, , 61-75.	1.0	18
15	Towards ABox Modularization of semi-expressive Description Logics. Applied Ontology, 2012, 7, 133-167.	1.0	16
16	An ontology-mediated analytics-aware approach to support monitoring and diagnostics of static and streaming data. Web Semantics, 2019, 56, 30-55.	2.2	16
17	Consistency Testing: The RACE Experience. Lecture Notes in Computer Science, 2000, , 57-61.	1.0	16
18	Lifted Dynamic Junction Tree Algorithm. Lecture Notes in Computer Science, 2018, , 55-69.	1.0	14

#	ARTICLE	IF	CITATIONS
19	A Probabilistic Abduction Engine for Media Interpretation Based on Ontologies. Lecture Notes in Computer Science, 2010, , 182-194.	1.0	13
20	Context- and bias-free probabilistic mission impact assessment. Computers and Security, 2017, 65, 166-186.	4.0	10
21	Ontology Based Data Access on Temporal and Streaming Data. Lecture Notes in Computer Science, 2014, , 279-312.	1.0	10
22	A framework for visualizing object-oriented systems. , 1990, , .		8
23	Preventing Groundings and Handling Evidence in the Lifted Junction Tree Algorithm. Lecture Notes in Computer Science, 2017, , 85-98.	1.0	8
24	Efficient Enriching of Synthesized Relational Patient Data with Time Series Data. Procedia Computer Science, 2018, 141, 531-538.	1.2	7
25	Counting and Conjunctive Queries in the Lifted Junction Tree Algorithm. Lecture Notes in Computer Science, 2018, , 54-72.	1.0	7
26	Parameterised Queries and Lifted Query Answering. , 2018, , .		7
27	A framework for visualizing object-oriented systems. ACM SIGPLAN Notices, 1990, 25, 237-244.	0.2	6
28	Using a Deep Understanding of Network Activities for Workflow Mining. Lecture Notes in Computer Science, 2016, , 177-184.	1.0	6
29	Selection of Pareto-efficient response plans based on financial and operational assessments. Eurasip Journal on Information Security, 2017, 2017, .	2.4	6
30	Terminological Default Reasoning about Spatial Information: A First Step. Lecture Notes in Computer Science, 1999, , 189-204.	1.0	6
31	Towards Scalable Instance Retrieval over Ontologies. Lecture Notes in Computer Science, 2010, , 436-448.	1.0	6
32	Lifted Maximum Expected Utility. Lecture Notes in Computer Science, 2019, , 131-141.	1.0	6
33	OnÂOntologyÂBasedÂAbduction ÂforÂTextÂInterpretation. , 2008, , 194-205.		5
34	Stream-Query Compilation with Ontologies. Lecture Notes in Computer Science, 2015, , 457-463.	1.0	4
35	Advances in Accessing Big Data with Expressive Ontologies. Lecture Notes in Computer Science, 2013, , 118-129.	1.0	4
36	A Probabilistic Doxastic Temporal Logic for Reasoning about Beliefs in Multi-agent Systems. , 2015, , .		4

#	ARTICLE	IF	CITATIONS
37	Visualization and graphical layout in object-oriented systems. Journal of Visual Languages and Computing, 1992, 3, 1-23.	1.8	3
38	Semantic Normalization and Matching of Business Dependency Models. , 2016, , .		3
39	Using a Deep Understanding of Network Activities for Network Vulnerability Assessment. , 2016, , .		3
40	Scalable Geo-thematic Query Answering. Lecture Notes in Computer Science, 2012, , 658-673.	1.0	3
41	Lifted Temporal Maximum Expected Utility. Lecture Notes in Computer Science, 2019, , 380-386.	1.0	3
42	Augmenting and Automating Corpus Enrichment. International Journal of Semantic Computing, 2020, 14, 173-197.	0.4	3
43	A functional layer for description logics. , 1996, , .		2
44	Event Prioritization and Correlation Based on Pattern Mining Techniques. , 2015, , .		2
45	Time Series Data Mining for Network Service Dependency Analysis. Advances in Intelligent Systems and Computing, 2017, , 584-594.	0.5	2
46	Logical Formalization of Multimedia Interpretation. Lecture Notes in Computer Science, 2011, , 110-133.	1.0	2
47	Indirect Causes in Dynamic Bayesian Networks Revisited. Journal of Artificial Intelligence Research, 0, 59, 1-58.	7.0	2
48	Exploiting Innocuousness in Bayesian Networks. Lecture Notes in Computer Science, 2015, , 411-423.	1.0	2
49	Lifted Most Probable Explanation. Lecture Notes in Computer Science, 2018, , 39-54.	1.0	2
50	Adaptive Inference on Probabilistic Relational Models. Lecture Notes in Computer Science, 2018, , 487-500.	1.0	2
51	Lifted Temporal Most Probable Explanation. Lecture Notes in Computer Science, 2019, , 72-85.	1.0	2
52	Identifying and Translating Subjective Content Descriptions Among Texts. International Journal of Semantic Computing, 2021, 15, 461-485.	0.4	2
53	A functional layer for description logics. ACM SIGPLAN Notices, 1996, 31, 198-213.	0.2	1
54	Abductive Conjunctive Query Answering w.r.t. Ontologies. KI - Kunstliche Intelligenz, 2016, 30, 177-182.	2.2	1

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55	An Ontology-Mediated Analytics-Aware Approach to Support Monitoring and Diagnostics of Static and Streaming Data. SSRN Electronic Journal, 2019, , .	0.4	1
56	Enhancing Relational Topic Models with Named Entity Induced Links. , 2021, , .		1
57	Context-specific Adaptation of Subjective Content Descriptions. , 2021, , .		1
58	Avoiding combinatorial explosion in automatic test generation: Reasoning about measurements is the key. Lecture Notes in Computer Science, 1996, , 213-226.	1.0	1
59	Abduction in PDT Logic. Lecture Notes in Computer Science, 2015, , 398-410.	1.0	1
60	Semantic Access to Streaming and Static Data at Siemens. SSRN Electronic Journal, 0, , .	0.4	1
61	Answering Multiple Conjunctive Queries with the Lifted Dynamic Junction Tree Algorithm. Lecture Notes in Computer Science, 2018, , 543-555.	1.0	1
62	Towards Preventing Unnecessary Groundings in the Lifted Dynamic Junction Tree Algorithm. Lecture Notes in Computer Science, 2018, , 38-45.	1.0	1
63	Efficient Multiple Query Answering in Switched Probabilistic Relational Models. Lecture Notes in Computer Science, 2019, , 104-116.	1.0	1
64	Exploring Unknown Universes in Probabilistic Relational Models. Lecture Notes in Computer Science, 2019, , 91-103.	1.0	1
65	Reasoning about Imprecise Beliefs in Multi-Agent Systems with PDT Logic. KI - Kunstliche Intelligenz, 2017, 31, 63-71.	2.2	0
66	Which Patient to Treat Next? Probabilistic Stream-Based Reasoning for Decision Support and Monitoring. , 2019, , .		0
67	Augmenting and Automating Corpus Enrichment. , 2020, , .		0
68	Identifying Subjective Content Descriptions among Texts. , 2021, , .		0
69	Description Logics: Retrospective Survey. , 2021, , 298-300.		0
70	Islands and Query Answering for Alchi-ontologies. Communications in Computer and Information Science, 2011, , 224-236.	0.4	0
71	On Bounded-Memory Stream Data Processing with Description Logics. Lecture Notes in Computer Science, 2019, , 639-660.	1.0	0
72	Uncertain Evidence for Probabilistic Relational Models. Lecture Notes in Computer Science, 2019, , 80-93.	1.0	0

#	ARTICLE	IF	CITATIONS
73	Description logics: retrospective survey. , 2020, , 1-3.		0
74	Estimating Context-Specific Subjective Content Descriptions using BERT. , 2022, , .		0