

# Michael A Benedikt

## List of Publications by Year in descending order

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Version: 2024-02-01

70  
papers

1,277  
citations

471509

17  
h-index

414414

32  
g-index

74  
all docs

74  
docs citations

74  
times ranked

432  
citing authors

#	ARTICLE	IF	CITATIONS
1	Analysis of recursive state machines. ACM Transactions on Programming Languages and Systems, 2005, 27, 786-818.	2.1	154
2	XPath satisfiability in the presence of DTDs. Journal of the ACM, 2008, 55, 1-79.	2.2	113
3	Relational expressive power of constraint query languages. Journal of the ACM, 1998, 45, 1-34.	2.2	94
4	XPath satisfiability in the presence of DTDs. , 2005, , .		73
5	XPath leashed. ACM Computing Surveys, 2009, 41, 1-54.	23.0	69
6	Structural properties of XPath fragments. Theoretical Computer Science, 2005, 336, 3-31.	0.9	65
7	Definable relations and first-order query languages over strings. Journal of the ACM, 2003, 50, 694-751.	2.2	47
8	LTL Model Checking of Interval Markov Chains. Lecture Notes in Computer Science, 2013, , 32-46.	1.3	46
9	Relational queries over interpreted structures. Journal of the ACM, 2000, 47, 644-680.	2.2	38
10	Complexity of Two-Variable Logic on Finite Trees. Lecture Notes in Computer Science, 2013, , 74-88.	1.3	28
11	Safe Constraint Queries. SIAM Journal on Computing, 2000, 29, 1652-1682.	1.0	27
12	Querying with access patterns and integrity constraints. Proceedings of the VLDB Endowment, 2015, 8, 690-701.	3.8	27
13	Generating Plans from Proofs. ACM Transactions on Database Systems, 2016, 40, 1-45.	2.8	24
14	Regular Tree Languages Definable in FO. Lecture Notes in Computer Science, 2005, , 327-339.	1.3	23
15	Semantics, Types and Effects for XML Updates. Lecture Notes in Computer Science, 2009, , 1-17.	1.3	22
16	Access patterns and integrity constraints revisited. , 2013, , .		20
17	Generating Plans from Proofs: The Interpolation-based Approach to Query Reformulation. Synthesis Lectures on Data Management, 2016, 8, 1-205.	0.6	20
18	Reachability and connectivity queries in constraint databases. Journal of Computer and System Sciences, 2003, 66, 169-206.	1.2	19

#	ARTICLE	IF	CITATIONS
19	Verification of Tree Updates for Optimization. Lecture Notes in Computer Science, 2005, , 379-393.	1.3	19
20	Regular tree languages definable in FO and in FO $\text{mod}$ . ACM Transactions on Computational Logic, 2009, 11, 1-32.	0.9	18
21	Towards a characterization of order-invariant queries over tame graphs. Journal of Symbolic Logic, 2009, 74, 168-186.	0.5	17
22	Generating low-cost plans from proofs. , 2014, , .		16
23	Destabilizers and independence of XML updates. Proceedings of the VLDB Endowment, 2010, 3, 906-917.	3.8	16
24	From XQuery to relational logics. ACM Transactions on Database Systems, 2009, 34, 1-48.	2.8	15
25	The Complexity of Boundedness for Guarded Logics. , 2015, , .		13
26	Automata vs. Logics on Data Words. Lecture Notes in Computer Science, 2010, , 110-124.	1.3	13
27	Determining relevance of accesses at runtime. , 2011, , .		12
28	Bounded repairability of word languages. Journal of Computer and System Sciences, 2013, 79, 1302-1321.	1.2	12
29	Rewriting Guarded Negation Queries. Lecture Notes in Computer Science, 2013, , 98-110.	1.3	12
30	Schema-based independence analysis for XML updates. Proceedings of the VLDB Endowment, 2009, 2, 61-72.	3.8	12
31	Aggregate Operators in Constraint Query Languages. Journal of Computer and System Sciences, 2002, 64, 628-654.	1.2	11
32	Stream firewalling of xml constraints. , 2008, , .		11
33	Regular Repair of Specifications. , 2011, , .		11
34	A characterization of first-order topological properties of planar spatial data. Journal of the ACM, 2006, 53, 273-305.	2.2	9
35	A Step Up in Expressiveness of Decidable Fixpoint Logics. , 2016, , .		9
36	Efficient and Expressive Tree Filters. Lecture Notes in Computer Science, 2007, , 461-472.	1.3	8

#	ARTICLE	IF	CITATIONS
37	Analysis of Schemas with Access Restrictions. ACM Transactions on Database Systems, 2015, 40, 1-46.	2.8	7
38	Polynomial automata: Zeroness and applications. , 2017, , .		7
39	When Can We Answer Queries Using Result-Bounded Data Interfaces?. , 2018, , .		7
40	Interpreting Tree-to-Tree Queries. Lecture Notes in Computer Science, 2006, , 552-564.	1.3	7
41	Logical definability and query languages over ranked and unranked trees. ACM Transactions on Computational Logic, 2007, 8, 11.	0.9	6
42	Positive higher-order queries. , 2010, , .		5
43	Bisimilarity of Pushdown Automata is Nonelementary. , 2013, , .		5
44	Effective interpolation and preservation in guarded logics. , 2014, , .		5
45	The per-character cost of repairing word languages. Theoretical Computer Science, 2014, 539, 38-67.	0.9	5
46	Finite Open-World Query Answering with Number Restrictions. , 2015, , .		5
47	Querying Visible and Invisible Information. , 2016, , .		5
48	Effective Interpolation and Preservation in Guarded Logics. ACM Transactions on Computational Logic, 2016, 17, 1-46.	0.9	5
49	Querying schemas with access restrictions. Proceedings of the VLDB Endowment, 2012, 5, 634-645.	3.8	5
50	Interpolation with Decidable Fixpoint Logics. , 2015, , .		4
51	Complexity of Two-Variable Logic on Finite Trees. ACM Transactions on Computational Logic, 2016, 17, 1-38.	0.9	4
52	Complexity of higher-order queries. , 2011, , .		3
53	How Can Reasoners Simplify Database Querying (And Why Haven't They Done It Yet)?. , 2018, , .		3
54	Monadic Datalog, Tree Validity, and Limited Access Containment. ACM Transactions on Computational Logic, 2020, 21, 1-45.	0.9	3

#	ARTICLE	IF	CITATIONS
55	How big must complete XML query languages be?. , 2009, , .		3
56	Two Variable vs. Linear Temporal Logic in Model Checking and Games. Lecture Notes in Computer Science, 2011, , 497-511.	1.3	3
57	Logic-based Perspectives on Query Reformulation over Restricted Interfaces. SIGMOD Record, 2018, 47, 5-16.	1.2	3
58	Report on the EDBT/ICDT 2010 workshop on updates in XML. SIGMOD Record, 2010, 39, 54-57.	1.2	2
59	Verification of Two-Variable Logic Revisited. , 2012, , .		2
60	Generating collection transformations from proofs. , 2021, 5, 1-28.		2
61	The Cost of Traveling between Languages. Lecture Notes in Computer Science, 2011, , 234-245.	1.3	2
62	ProFoUnd. , 2012, , .		1
63	Form Filling Based on Constraint Solving. Lecture Notes in Computer Science, 2018, , 95-113.	1.3	1
64	Limiting Until in Ordered Tree Query Languages. ACM Transactions on Computational Logic, 2016, 17, 1-34.	0.9	1
65	QUASAR. , 2012, , .		0
66	Report on the first workshop on innovative querying of streams. SIGMOD Record, 2013, 42, 59-63.	1.2	0
67	The complexity of higher-order queries. Information and Computation, 2015, 244, 172-202.	0.7	0
68	Guest Editorial: Special Issue on Database Theory. Theory of Computing Systems, 2019, 63, 1572-1572.	1.1	0
69	HOMES. Proceedings of the VLDB Endowment, 2011, 4, 1399-1402.	3.8	0
70	Finite Open-world Query Answering with Number Restrictions. ACM Transactions on Computational Logic, 2020, 21, 1-73.	0.9	0