

Maurice Bruynooghe

List of Publications by Year in descending order

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132
papers

2,623
citations

218381

26
h-index

243296

44
g-index

139
all docs

139
docs citations

139
times ranked

1071
citing authors

#	ARTICLE	IF	CITATIONS
1	A practical framework for the abstract interpretation of logic programs. The Journal of Logic Programming, 1991, 10, 91-124.	1.9	184
2	Deriving descriptions of possible values of program variables by means of abstract interpretation. The Journal of Logic Programming, 1992, 13, 205-258.	1.9	108
3	Logic Programs with Annotated Disjunctions. Lecture Notes in Computer Science, 2004, , 431-445.	1.0	108
4	Counting Integer Points in Parametric Polytopes Using Barvinok's Rational Functions. Algorithmica, 2007, 48, 37-66.	1.0	106
5	Well-founded and stable semantics of logic programs with aggregates. Theory and Practice of Logic Programming, 2007, 7, 301-353.	1.1	86
6	Machine learning techniques to examine large patient databases. Bailliere's Best Practice and Research in Clinical Anaesthesiology, 2009, 23, 127-143.	1.7	78
7	Mining data from intensive care patients. Advanced Engineering Informatics, 2007, 21, 243-256.	4.0	70
8	Logic program specialisation through partial deduction: Control issues. Theory and Practice of Logic Programming, 2002, 2, 461-515.	1.1	64
9	CP-logic: A language of causal probabilistic events and its relation to logic programming. Theory and Practice of Logic Programming, 2009, 9, 245-308.	1.1	62
10	A general criterion for avoiding infinite unfolding during partial deduction. New Generation Computing, 1992, 11, 47-79.	2.5	58
11	Solving combinatorial search problems by intelligent backtracking. Information Processing Letters, 1981, 12, 36-39.	0.4	54
12	Compiling control. The Journal of Logic Programming, 1989, 6, 135-162.	1.9	53
13	The derivation of an algorithm for program specialisation. New Generation Computing, 1991, 9, 305-333.	2.5	53
14	A polynomial time computable metric between point sets. Acta Informatica, 2001, 37, 765-780.	0.5	52
15	Termination analysis of logic programs through combination of type-based norms. ACM Transactions on Programming Languages and Systems, 2007, 29, 10.	1.7	49
16	Improving abstract interpretations by combining domains. ACM Transactions on Programming Languages and Systems, 1995, 17, 28-44.	1.7	44
17	Analytical computation of Ehrhart polynomials. , 2004, , .		44
18	Interactive Concept-Learning and Constructive Induction by Analogy. Machine Learning, 1992, 8, 107-150.	3.4	40

#	ARTICLE	IF	CITATIONS
19	Logic programming revisited. ACM Transactions on Computational Logic, 2001, 2, 623-654.	0.7	40
20	The magic of logical inference in probabilistic programming. Theory and Practice of Logic Programming, 2011, 11, 663-680.	1.1	39
21	Declarative bias for specific-to-general ILP systems. Machine Learning, 1995, 20, 119-154.	3.4	35
22	Equivalence checking of static affine programs using widening to handle recurrences. ACM Transactions on Programming Languages and Systems, 2012, 34, 1-35.	1.7	34
23	Improved Static Symmetry Breaking for SAT. Lecture Notes in Computer Science, 2016, , 104-122.	1.0	34
24	Computerized prediction of intensive care unit discharge after cardiac surgery: development and validation of a Gaussian processes model. BMC Medical Informatics and Decision Making, 2011, 11, 64.	1.5	29
25	Logical Bayesian Networks and Their Relation to Other Probabilistic Logical Models. Lecture Notes in Computer Science, 2005, , 121-135.	1.0	29
26	Offline specialisation in Prolog using a hand-written compiler generator. Theory and Practice of Logic Programming, 2004, 4, 139-191.	1.1	28
27	Distance semantics for database repair. Annals of Mathematics and Artificial Intelligence, 2007, 50, 389-415.	0.9	28
28	Interactive concept-learning and constructive induction by analogy. Machine Learning, 1992, 8, 107-150.	3.4	27
29	Experiences with Enumeration of Integer Projections of Parametric Polytopes. Lecture Notes in Computer Science, 2005, , 91-105.	1.0	27
30	Ultimate Well-Founded and Stable Semantics for Logic Programs with Aggregates. Lecture Notes in Computer Science, 2001, , 212-226.	1.0	26
31	Belief updating from integrity constraints and queries. Artificial Intelligence, 1992, 53, 291-307.	3.9	25
32	Information extraction from structured documents using k-testable tree automaton inference. Data and Knowledge Engineering, 2006, 58, 129-158.	2.1	25
33	Storage Size Reduction by In-place Mapping of Arrays. Lecture Notes in Computer Science, 2002, , 167-181.	1.0	25
34	Predicate logic as a modeling language: modeling and solving some machine learning and data mining problems with <i>IDP3</i> . Theory and Practice of Logic Programming, 2015, 15, 783-817.	1.1	24
35	Equivalence Checking of Static Affine Programs Using Widening to Handle Recurrences. Lecture Notes in Computer Science, 2009, , 599-613.	1.0	24
36	Information Extraction in Structured Documents Using Tree Automata Induction. Lecture Notes in Computer Science, 2002, , 299-311.	1.0	23

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37	Verification of Source Code Transformations by Program Equivalence Checking. Lecture Notes in Computer Science, 2005, , 221-236.	1.0	23
38	CHICA, An Abductive Planning System Based on Event Calculus. Journal of Logic and Computation, 1995, 5, 579-602.	0.5	22
39	SAT(ID): Satisfiability of Propositional Logic Extended with Inductive Definitions. , 2008, , 211-224.		22
40	Live-structure dataflow analysis for Prolog. ACM Transactions on Programming Languages and Systems, 1994, 16, 205-258.	1.7	21
41	Predicate logic as a modeling language: the IDP system. , 2018, , 279-323.		19
42	On the existence of nonterminating queries for a restricted class of PROLOG-clauses. Artificial Intelligence, 1989, 41, 237-248.	3.9	16
43	Database Repair by Signed Formulae. Lecture Notes in Computer Science, 2004, , 14-30.	1.0	16
44	Lazy Model Expansion: Interleaving Grounding with Search. Journal of Artificial Intelligence Research, 0, 52, 235-286.	7.0	16
45	Iterative versionspaces. Artificial Intelligence, 1994, 69, 393-409.	3.9	15
46	A polyvariant binding-time analysis for off-line partial deduction. Lecture Notes in Computer Science, 1998, , 27-41.	1.0	15
47	Learning Relational Options for Inductive Transfer in Relational Reinforcement Learning. , 2007, , 88-97.		15
48	Indirect relevance and bias in inductive concept-learning. International Journal of Human-Computer Studies, 1990, 2, 365-390.	1.2	14
49	Specialising Interpreters Using Offline Partial Deduction. Lecture Notes in Computer Science, 2004, , 340-375.	1.0	14
50	Inference of Well-Typings for Logic Programs with Application to Termination Analysis. Lecture Notes in Computer Science, 2005, , 35-51.	1.0	14
51	Deriving fold/unfold transformations of logic programs using extended OLDT-based abstract interpretation. Journal of Symbolic Computation, 1993, 15, 495-521.	0.5	13
52	Computational methods for database repair by signed formulae*. Annals of Mathematics and Artificial Intelligence, 2006, 46, 4-37.	0.9	13
53	Learning (k,l)-contextual tree languages for information extraction from web pages. Machine Learning, 2008, 71, 155-183.	3.4	13
54	A polynomial-time maximum common subgraph algorithm for outerplanar graphs and its application to chemoinformatics. Annals of Mathematics and Artificial Intelligence, 2013, 69, 343-376.	0.9	13

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55	Experience with Widening Based Equivalence Checking in Realistic Multimedia Systems. Journal of Electronic Testing: Theory and Applications (JETTA), 2010, 26, 279-292.	0.9	12
56	Transformation to Dynamic Single Assignment Using a Simple Data Flow Analysis. Lecture Notes in Computer Science, 2005, , 330-346.	1.0	12
57	An Efficiently Computable Graph-Based Metric for the Classification of Small Molecules. Lecture Notes in Computer Science, 2008, , 197-209.	1.0	12
58	Approximation Fixpoint Theory and the Semantics of Logic and Answers Set Programs. Lecture Notes in Computer Science, 2012, , 178-194.	1.0	12
59	Detecting unsolvable queries for definite logic programs. Lecture Notes in Computer Science, 1998, , 118-133.	1.0	11
60	Advanced copy propagation for arrays. , 2003, , .		11
61	A practical dynamic single assignment transformation. ACM Transactions on Design Automation of Electronic Systems, 2007, 12, 40.	1.9	11
62	Prediction of Clinical Conditions after Coronary Bypass Surgery using Dynamic Data Analysis. Journal of Medical Systems, 2010, 34, 229-239.	2.2	11
63	A comparison of pruning criteria for probability trees. Machine Learning, 2010, 78, 251-285.	3.4	11
64	Constraint Propagation for First-Order Logic and Inductive Definitions. ACM Transactions on Computational Logic, 2013, 14, 1-45.	0.7	11
65	Mining rooted ordered trees under subtree homeomorphism. Data Mining and Knowledge Discovery, 2016, 30, 1249-1272.	2.4	11
66	A unifying framework for concept-learning algorithms. Knowledge Engineering Review, 1992, 7, 251-269.	2.1	10
67	Exploiting goal independence in the analysis of logic programs. The Journal of Logic Programming, 1997, 32, 247-261.	1.9	10
68	On local domain symmetry for model expansion. Theory and Practice of Logic Programming, 2016, 16, 636-652.	1.1	10
69	Symmetric Explanation Learning: Effective Dynamic Symmetry Handling for SAT. Lecture Notes in Computer Science, 2017, , 83-100.	1.0	10
70	Representing Causal Information About a Probabilistic Process. Lecture Notes in Computer Science, 2006, , 452-464.	1.0	10
71	On the design of a correct freeness analysis for logic programs. The Journal of Logic Programming, 1996, 28, 181-206.	1.9	9
72	First Order Logic with Inductive Definitions for Model-Based Problem Solving. AI Magazine, 2016, 37, 69-80.	1.4	9

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73	Representation of Partial Knowledge and Query Answering in Locally Complete Databases. Lecture Notes in Computer Science, 2006, , 407-421.	1.0	9
74	Reuse of Results in Termination Analysis of Typed Logic Programs. Lecture Notes in Computer Science, 2002, , 477-492.	1.0	9
75	A freeness and sharing analysis of logic programs based on a pre-interpretation. Lecture Notes in Computer Science, 1996, , 128-142.	1.0	9
76	Binding-Time Annotations without Binding-Time Analysis. Lecture Notes in Computer Science, 2001, , 707-722.	1.0	9
77	Embracing Events in Causal Modelling: Interventions and Counterfactuals in CP-Logic. Lecture Notes in Computer Science, 2010, , 313-325.	1.0	9
78	Abstracting s-semantics using a model-theoretic approach. Lecture Notes in Computer Science, 1994, , 432-446.	1.0	9
79	On the transformation of logic programs with instantiation based computation rules. Journal of Symbolic Computation, 1989, 7, 125-154.	0.5	8
80	Generalized ordering-search for learning directed probabilistic logical models. Machine Learning, 2008, 70, 169-188.	3.4	8
81	FO(ID) as an extension of DL with rules. Annals of Mathematics and Artificial Intelligence, 2010, 58, 85-115.	0.9	8
82	Learning (k,l)-Contextual Tree Languages for Information Extraction. Lecture Notes in Computer Science, 2005, , 305-316.	1.0	8
83	A systematic construction of abstract domains. Lecture Notes in Computer Science, 1994, , 61-77.	1.0	8
84	PROGRAMMING PEARL: Enhancing a search algorithm to perform intelligent backtracking. Theory and Practice of Logic Programming, 2004, 4, 371-380.	1.1	7
85	A Module Based Analysis for Memory Reuse in Mercury. Lecture Notes in Computer Science, 2000, , 1255-1269.	1.0	7
86	When Size Does Matter. Lecture Notes in Computer Science, 2002, , 129-147.	1.0	7
87	Data Integration Using ID-Logic. Notes on Numerical Fluid Mechanics and Multidisciplinary Design, 2004, , 67-81.	0.2	7
88	Geometric Model Checking. Electronic Notes in Theoretical Computer Science, 2002, 65, 67-82.	0.9	6
89	A Comparison of Approaches for Learning Probability Trees. Lecture Notes in Computer Science, 2005, , 556-563.	1.0	6
90	Multi-agent Relational Reinforcement Learning. Lecture Notes in Computer Science, 2006, , 192-206.	1.0	6

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91	Simulating Dynamic Systems Using Linear Time Calculus Theories. Theory and Practice of Logic Programming, 2014, 14, 477-492.	1.1	5
92	On the Local Closed-World Assumption of Data-Sources. Lecture Notes in Computer Science, 2005, , 145-157.	1.0	5
93	Coherent Composition of Distributed Knowledge-Bases through Abduction. Lecture Notes in Computer Science, 2001, , 624-638.	1.0	5
94	Implementing finite-domain constraint logic programming on top of a PROLOG-system with delay-mechanism. Lecture Notes in Computer Science, 1990, , 106-117.	1.0	5
95	Binding-Time Analysis for Mercury. Lecture Notes in Computer Science, 2004, , 189-232.	1.0	5
96	Practical Aspects for a Working Compile Time Garbage Collection System for Mercury. Lecture Notes in Computer Science, 2001, , 105-119.	1.0	5
97	Satisfiability Checking for PC(ID). Lecture Notes in Computer Science, 2005, , 565-579.	1.0	5
98	Learning Directed Probabilistic Logical Models: Ordering-Search Versus Structure-Search. Lecture Notes in Computer Science, 2007, , 567-574.	1.0	5
99	Acquiring object-knowledge for learning systems. Lecture Notes in Computer Science, 1991, , 245-264.	1.0	4
100	Compiling bottom-up and mixed derivations into top-down executable logic programs. Journal of Automated Reasoning, 1991, 7, 337-358.	1.1	4
101	Polymorphic algebraic data type reconstruction. , 2006, , .		4
102	Pos(T): Analyzing Dependencies in Typed Logic Programs. Lecture Notes in Computer Science, 2001, , 406-420.	1.0	4
103	Predicate Introduction Under Stable and Well-Founded Semantics. Lecture Notes in Computer Science, 2006, , 242-256.	1.0	4
104	Abstracting unification: A key step in the design of logic program analyses. Lecture Notes in Computer Science, 1995, , 406-425.	1.0	3
105	Detection and exploitation of functional dependencies for model generation. Theory and Practice of Logic Programming, 2013, 13, 471-485.	1.1	3
106	Bootstrapping Inference in the IDP Knowledge Base System. New Generation Computing, 2016, 34, 193-220.	2.5	3
107	On the Transformation of Object-Oriented Conceptual Models to Logical Theories. Lecture Notes in Computer Science, 2002, , 152-166.	1.0	3
108	Some thoughts on the role of examples in program transformation and its relevance for explanation-based learning. Lecture Notes in Computer Science, 1989, , 60-77.	1.0	3

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109	Answer Set Programming's Contributions to Classical Logic. Lecture Notes in Computer Science, 2011, , 12-32.	1.0	3
110	From Monomorphic to Polymorphic Well-Typings and Beyond. Lecture Notes in Computer Science, 2009, , 152-167.	1.0	3
111	Acquiring object-knowledge. Journal of Experimental and Theoretical Artificial Intelligence, 1992, 4, 213-232.	1.8	2
112	Declarative Bias for Specific-to-General ILP Systems. Machine Learning, 1995, 20, 119-154.	3.4	2
113	Towards Modular Binding-Time Analysis for First-order Mercury. Electronic Notes in Theoretical Computer Science, 2000, 30, 189-198.	0.9	2
114	Advanced copy propagation for arrays. ACM SIGPLAN Notices, 2003, 38, 24-33.	0.2	2
115	Learning directed probabilistic logical models: ordering-search versus structure-search. Annals of Mathematics and Artificial Intelligence, 2008, 54, 99-133.	0.9	2
116	Distance-Based Repairs of Databases. Lecture Notes in Computer Science, 2006, , 43-55.	1.0	2
117	Deriving Transformations of Logic Programs Using Abstract Interpretation. Workshops in Computing, 1993, , 99-117.	0.4	2
118	Integrity Constraints and Interactive Concept-Learning. , 1991, , 394-398.		2
119	Special issue on "Program development". Theory and Practice of Logic Programming, 2002, 2, 423-424.	1.1	1
120	Experience with widening based equivalence checking in realistic multimedia systems. , 2009, , .		1
121	An Approximative Inference Method for Solving $\hat{f}\hat{\epsilon}\hat{\epsilon}$ SO Satisfiability Problems. Lecture Notes in Computer Science, 2010, , 326-338.	1.0	1
122	A Transformational Approach for Proving Properties of the CHR Constraint Store. Lecture Notes in Computer Science, 2010, , 22-36.	1.0	1
123	Generalizing multiple examples in explanation based learning. Lecture Notes in Computer Science, 1989, , 177-183.	1.0	1
124	An application of abstract interpretation in source level program transformation. Lecture Notes in Computer Science, 1989, , 35-57.	1.0	1
125	Generalized Ordering-Search for Learning Directed Probabilistic Logical Models. Lecture Notes in Computer Science, 2006, , 40-42.	1.0	1
126	Special section: Ten Years of Logic Programming. The Journal of Logic Programming, 1995, 23, 87-88.	1.9	0

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127	Extending constraint logic programming with open functions. , 2000, , .		0
128	Compact Representation of Knowledge Bases in Inductive Logic Programming. Machine Learning, 2004, 57, 305-333.	3.4	0
129	A Portrait of a Scientist as a Computational Logician. Lecture Notes in Computer Science, 2002, , 1-4.	1.0	0
130	A Fixed Point Semantics for Logic Programs Extended with Cuts. Lecture Notes in Computer Science, 2003, , 238-257.	1.0	0
131	An ID-Logic Formalization of the Composition of Autonomous Databases. Lecture Notes in Computer Science, 2005, , 132-144.	1.0	0
132	Using call/exit analysis for logic program transformation. Lecture Notes in Computer Science, 1994, , 36-50.	1.0	0