Maurice Bruynooghe

List of Publications by Year
in descending order

132	2,623	218677	243625
papers	citations	26 h-index	44 g-index

139	139	139	1071
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Predicate logic as a modeling language: the IDP system. , 2018, , 279-323.		19
2	Symmetric Explanation Learning: Effective Dynamic Symmetry Handling for SAT. Lecture Notes in Computer Science, 2017, , 83-100.	1.3	10
3	First Order Logic with Inductive Definitions for Model-Based Problem Solving. AI Magazine, 2016, 37, 69-80.	1.6	9
4	On local domain symmetry for model expansion. Theory and Practice of Logic Programming, 2016, 16, 636-652.	1.5	10
5	Improved Static Symmetry Breaking for SAT. Lecture Notes in Computer Science, 2016, , 104-122.	1.3	34
6	Mining rooted ordered trees under subtree homeomorphism. Data Mining and Knowledge Discovery, 2016, 30, 1249-1272.	3.7	11
7	Bootstrapping Inference in the IDP Knowledge Base System. New Generation Computing, 2016, 34, 193-220.	3.3	3
8	Predicate logic as a modeling language: modeling and solving some machine learning and data mining problems withIDP3. Theory and Practice of Logic Programming, 2015, 15, 783-817.	1.5	24
9	Simulating Dynamic Systems Using Linear Time Calculus Theories. Theory and Practice of Logic Programming, 2014, 14, 477-492.	1.5	5
10	Constraint Propagation for First-Order Logic and Inductive Definitions. ACM Transactions on Computational Logic, 2013, 14, 1-45.	0.9	11
11	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.	1.3	13
12	Detection and exploitation of functional dependencies for model generation. Theory and Practice of Logic Programming, 2013, 13, 471-485.	1.5	3
13	Equivalence checking of static affine programs using widening to handle recurrences. ACM Transactions on Programming Languages and Systems, 2012, 34, 1-35.	2.1	34
14	Approximation Fixpoint Theory and the Semantics of Logic and Answers Set Programs. Lecture Notes in Computer Science, 2012, , 178-194.	1.3	12
15	The magic of logical inference in probabilistic programming. Theory and Practice of Logic Programming, 2011, 11, 663-680.	1.5	39
16	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.	3.0	29
17	Answer Set Programmingâ€™s Contributions to Classical Logic. Lecture Notes in Computer Science, 2011, , 12-32.	1.3	3
18	FO(ID) as an extension of DL with rules. Annals of Mathematics and Artificial Intelligence, 2010, 58, 85-115.	1.3	8

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19	Prediction of Clinical Conditions after Coronary Bypass Surgery using Dynamic Data Analysis. Journal of Medical Systems, 2010, 34, 229-239.	3.6	11
20	Experience with Widening Based Equivalence Checking in Realistic Multimedia Systems. Journal of Electronic Testing: Theory and Applications (JETTA), 2010, 26, 279-292.	1.2	12
21	A comparison of pruning criteria for probability trees. Machine Learning, 2010, 78, 251-285.	5.4	11
22	An Approximative Inference Method for Solving âˆƒâ€‰âˆ€SO Satisfiability Problems. Lecture Notes in Computer Science, 2010, , 326-338.	1.3	1
23	A Transformational Approach for Proving Properties of the CHR Constraint Store. Lecture Notes in Computer Science, 2010, , 22-36.	1.3	1
24	Embracing Events in Causal Modelling: Interventions and Counterfactuals in CP-Logic. Lecture Notes in Computer Science, 2010, , 313-325.	1.3	9
25	Machine learning techniques to examine large patient databases. Bailliere's Best Practice and Research in Clinical Anaesthesiology, 2009, 23, 127-143.	4.0	78
26	Experience with widening based equivalence checking in realistic multimedia systems. , 2009, , .		1
27	CP-logic: A language of causal probabilistic events and its relation to logic programming. Theory and Practice of Logic Programming, 2009, 9, 245-308.	1.5	62
28	Equivalence Checking of Static Affine Programs Using Widening to Handle Recurrences. Lecture Notes in Computer Science, 2009, , 599-613.	1.3	24
29	From Monomorphic to Polymorphic Well-Typings and Beyond. Lecture Notes in Computer Science, 2009, , 152-167.	1.3	3
30	Generalized ordering-search for learning directed probabilistic logical models. Machine Learning, 2008, 70, 169-188.	5.4	8
31	Learning (k,l)-contextual tree languages for information extraction from web pages. Machine Learning, 2008, 71, 155-183.	5.4	13
32	Learning directed probabilistic logical models: ordering-search versus structure-search. Annals of Mathematics and Artificial Intelligence, 2008, 54, 99-133.	1.3	2
33	SAT(ID): Satisfiability of Propositional Logic Extended with Inductive Definitions. , 2008, , 211-224.		22
34	An Efficiently Computable Graph-Based Metric for the Classification of Small Molecules. Lecture Notes in Computer Science, 2008, , 197-209.	1.3	12
35	A practical dynamic single assignment transformation. ACM Transactions on Design Automation of Electronic Systems, 2007, 12, 40.	2.6	11
36	Termination analysis of logic programs through combination of type-based norms. ACM Transactions on Programming Languages and Systems, 2007, 29, 10.	2.1	49

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37	Well-founded and stable semantics of logic programs with aggregates. Theory and Practice of Logic Programming, 2007, 7, 301-353.	1.5	86
38	Mining data from intensive care patients. Advanced Engineering Informatics, 2007, 21, 243-256.	8.0	70
39	Distance semantics for database repair. Annals of Mathematics and Artificial Intelligence, 2007, 50, 389-415.	1.3	28
40	Counting Integer Points in Parametric Polytopes Using Barvinok's Rational Functions. Algorithmica, 2007, 48, 37-66.	1.3	106
41	Learning Relational Options for Inductive Transfer in Relational Reinforcement Learning. , 2007, , 88-97.		15
42	Learning Directed Probabilistic Logical Models: Ordering-Search Versus Structure-Search. Lecture Notes in Computer Science, 2007, , 567-574.	1.3	5
43	Information extraction from structured documents using k-testable tree automaton inference. Data and Knowledge Engineering, 2006, 58, 129-158.	3.4	25
44	Computational methods for database repair by signed formulae*. Annals of Mathematics and Artificial Intelligence, 2006, 46, 4-37.	1.3	13
45	Polymorphic algebraic data type reconstruction. , 2006, , .		4
46	Multi-agent Relational Reinforcement Learning. Lecture Notes in Computer Science, 2006, , 192-206.	1.3	6
47	Representing Causal Information About a Probabilistic Process. Lecture Notes in Computer Science, 2006, , 452-464.	1.3	10
48	Distance-Based Repairs of Databases. Lecture Notes in Computer Science, 2006, , 43-55.	1.3	2
49	Representation of Partial Knowledge and Query Answering in Locally Complete Databases. Lecture Notes in Computer Science, 2006, , 407-421.	1.3	9
50	Predicate Introduction Under Stable and Well-Founded Semantics. Lecture Notes in Computer Science, 2006, , 242-256.	1.3	4
51	Generalized Ordering-Search for Learning Directed Probabilistic Logical Models. Lecture Notes in Computer Science, 2006, , 40-42.	1.3	1
52	Logical Bayesian Networks and Their Relation to Other Probabilistic Logical Models. Lecture Notes in Computer Science, 2005, , 121-135.	1.3	29
53	On the Local Closed-World Assumption of Data-Sources. Lecture Notes in Computer Science, 2005, , 145-157.	1.3	5
54	Inference of Well-Typings for Logic Programs with Application to Termination Analysis. Lecture Notes in Computer Science, 2005, , 35-51.	1.3	14

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55	Learning (k,l)-Contextual Tree Languages for Information Extraction. Lecture Notes in Computer Science, 2005, , 305-316.	1.3	8
56	A Comparison of Approaches for Learning Probability Trees. Lecture Notes in Computer Science, 2005, , 556-563.	1.3	6
57	Transformation to Dynamic Single Assignment Using a Simple Data Flow Analysis. Lecture Notes in Computer Science, 2005, , 330-346.	1.3	12
58	Verification of Source Code Transformations by Program Equivalence Checking. Lecture Notes in Computer Science, 2005, , 221-236.	1.3	23
59	Experiences with Enumeration of Integer Projections of Parametric Polytopes. Lecture Notes in Computer Science, 2005, , 91-105.	1.3	27
60	An ID-Logic Formalization of the Composition of Autonomous Databases. Lecture Notes in Computer Science, 2005, , 132-144.	1.3	0
61	Satisfiability Checking for PC(ID). Lecture Notes in Computer Science, 2005, , 565-579.	1.3	5
62	Offline specialisation in Prolog using a hand-written compiler generator. Theory and Practice of Logic Programming, 2004, 4, 139-191.	1.5	28
63	Specialising Interpreters Using Offline Partial Deduction. Lecture Notes in Computer Science, 2004, , 340-375.	1.3	14
64	Analytical computation of Ehrhart polynomials. , 2004, , .		44
65	Compact Representation of Knowledge Bases in Inductive Logic Programming. Machine Learning, 2004, 57, 305-333.	5.4	0
66	PROGRAMMING PEARL: Enhancing a search algorithm to perform intelligent backtracking. Theory and Practice of Logic Programming, 2004, 4, 371-380.	1.5	7
67	Logic Programs with Annotated Disjunctions. Lecture Notes in Computer Science, 2004, , 431-445.	1.3	108
68	Database Repair by Signed Formulae. Lecture Notes in Computer Science, 2004, , 14-30.	1.3	16
69	Binding-Time Analysis for Mercury. Lecture Notes in Computer Science, 2004, , 189-232.	1.3	5
70	Data Integration Using ID-Logic. Notes on Numerical Fluid Mechanics and Multidisciplinary Design, 2004, , 67-81.	0.3	7
71	Advanced copy propagation for arrays. ACM SIGPLAN Notices, 2003, 38, 24-33.	0.2	2
72	Advanced copy propagation for arrays. , 2003, , .		11

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73	A Fixed Point Semantics for Logic Programs Extended with Cuts. Lecture Notes in Computer Science, 2003, , 238-257.	1.3	0
74	Logic program specialisation through partial deduction: Control issues. Theory and Practice of Logic Programming, 2002, 2, 461-515.	1.5	64
75	Special issue on â€˜Program developmentâ€™. Theory and Practice of Logic Programming, 2002, 2, 423-424.	1.5	1
76	Geometric Model Checking. Electronic Notes in Theoretical Computer Science, 2002, 65, 67-82.	0.9	6
77	When Size Does Matter. Lecture Notes in Computer Science, 2002, , 129-147.	1.3	7
78	Information Extraction in Structured Documents Using Tree Automata Induction. Lecture Notes in Computer Science, 2002, , 299-311.	1.3	23
79	Reuse of Results in Termination Analysis of Typed Logic Programs. Lecture Notes in Computer Science, 2002, , 477-492.	1.3	9
80	On the Transformation of Object-Oriented Conceptual Models to Logical Theories. Lecture Notes in Computer Science, 2002, , 152-166.	1.3	3
81	Storage Size Reduction by In-place Mapping of Arrays. Lecture Notes in Computer Science, 2002, , 167-181.	1.3	25
82	A Portrait of a Scientist as a Computational Logician. Lecture Notes in Computer Science, 2002, , 1-4.	1.3	0
83	A polynomial time computable metric between point sets. Acta Informatica, 2001, 37, 765-780.	0.5	52
84	Logic programming revisited. ACM Transactions on Computational Logic, 2001, 2, 623-654.	0.9	40
85	Ultimate Well-Founded and Stable Semantics for Logic Programs with Aggregates. Lecture Notes in Computer Science, 2001, , 212-226.	1.3	26
86	Coherent Composition of Distributed Knowledge-Bases through Abduction. Lecture Notes in Computer Science, 2001, , 624-638.	1.3	5
87	Pos(T): Analyzing Dependencies in Typed Logic Programs. Lecture Notes in Computer Science, 2001, , 406-420.	1.3	4
88	Practical Aspects for a Working Compile Time Garbage Collection System for Mercury. Lecture Notes in Computer Science, 2001, , 105-119.	1.3	5
89	Binding-Time Annotations without Binding-Time Analysis. Lecture Notes in Computer Science, 2001, , 707-722.	1.3	9
90	Towards Modular Binding-Time Analysis for First-order Mercury. Electronic Notes in Theoretical Computer Science, 2000, 30, 189-198.	0.9	2

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91	Extending constraint logic programming with open functions. , 2000, , .		0
92	A Module Based Analysis for Memory Reuse in Mercury. Lecture Notes in Computer Science, 2000, , 1255-1269.	1.3	7
93	Detecting unsolvable queries for definite logic programs. Lecture Notes in Computer Science, 1998, , 118-133.	1.3	11
94	A polyvariant binding-time analysis for off-line partial deduction. Lecture Notes in Computer Science, 1998, , 27-41.	1.3	15
95	Exploiting goal independence in the analysis of logic programs. The Journal of Logic Programming, 1997, 32, 247-261.	1.7	10
96	On the design of a correct freeness analysis for logic programs. The Journal of Logic Programming, 1996, 28, 181-206.	1.7	9
97	A freeness and sharing analysis of logic programs based on a pre-interpretation. Lecture Notes in Computer Science, 1996, , 128-142.	1.3	9
98	Abstracting unification: A key step in the design of logic program analyses. Lecture Notes in Computer Science, 1995, , 406-425.	1.3	3
99	Special section: Ten Years of Logic Programming. The Journal of Logic Programming, 1995, 23, 87-88.	1.7	0
100	CHICA, An Abductive Planning System Based on Event Calculus. Journal of Logic and Computation, 1995, 5, 579-602.	0.8	22
101	Improving abstract interpretations by combining domains. ACM Transactions on Programming Languages and Systems, 1995, 17, 28-44.	2.1	44
102	Declarative Bias for Specific-to-General ILP Systems. Machine Learning, 1995, 20, 119-154.	5.4	2
103	Declarative bias for specific-to-general ILP systems. Machine Learning, 1995, 20, 119-154.	5.4	35
104	Live-structure dataflow analysis for Prolog. ACM Transactions on Programming Languages and Systems, 1994, 16, 205-258.	2.1	21
105	Iterative versionspaces. Artificial Intelligence, 1994, 69, 393-409.	5.8	15
106	Abstracting s-semantics using a model-theoretic approach. Lecture Notes in Computer Science, 1994, , 432-446.	1.3	9
107	Using call/exit analysis for logic program transformation. Lecture Notes in Computer Science, 1994, , 36-50.	1.3	0
108	A systematic construction of abstract domains. Lecture Notes in Computer Science, 1994, , 61-77.	1.3	8

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109	Deriving fold/unfold transformations of logic programs using extended OLDT-based abstract interpretation. Journal of Symbolic Computation, 1993, 15, 495-521.	0.8	13
110	Deriving Transformations of Logic Programs Using Abstract Interpretation. Workshops in Computing, 1993, , 99-117.	0.4	2
111	A unifying framework for concept-learning algorithms. Knowledge Engineering Review, 1992, 7, 251-269.	2.6	10
112	Acquiring object-knowledge. Journal of Experimental and Theoretical Artificial Intelligence, 1992, 4, 213-232.	2.8	2
113	Interactive concept-learning and constructive induction by analogy. Machine Learning, 1992, 8, 107-150.	5.4	27
114	Interactive Concept-Learning and Constructive Induction by Analogy. Machine Learning, 1992, 8, 107-150.	5.4	40
115	A general criterion for avoiding infinite unfolding during partial deduction. New Generation Computing, 1992, 11, 47-79.	3.3	58
116	Deriving descriptions of possible values of program variables by means of abstract interpretation. The Journal of Logic Programming, 1992, 13, 205-258.	1.7	108
117	Belief updating from integrity constraints and queries. Artificial Intelligence, 1992, 53, 291-307.	5.8	25
118	Acquiring object-knowledge for learning systems. Lecture Notes in Computer Science, 1991, , 245-264.	1.3	4
119	The derivation of an algorithm for program specialisation. New Generation Computing, 1991, 9, 305-333.	3.3	53
120	A practical framework for theabstract interpretation of logic programs. The Journal of Logic Programming, 1991, 10, 91-124.	1.7	184
121	Compiling bottom-up and mixed derivations into top-down executable logic programs. Journal of Automated Reasoning, 1991, 7, 337-358.	1.4	4
122	Integrity Constraints and Interactive Concept-Learning. , 1991, , 394-398.		2
123	Indirect relevance and bias in inductive concept-learning. International Journal of Human-Computer Studies, 1990, 2, 365-390.	1.2	14
124	Implementing finite-domain constraint logic programming on top of a PROLOG-system with delay-mechanism. Lecture Notes in Computer Science, 1990, , 106-117.	1.3	5
125	On the existence of nonterminating queries for a restricted class of PROLOG-clauses. Artificial Intelligence, 1989, 41, 237-248.	5.8	16
126	Compiling control. The Journal of Logic Programming, 1989, 6, 135-162.	1.7	53

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127	On the transformation of logic programs with instantiation based computation rules. Journal of Symbolic Computation, 1989, 7, 125-154.	0.8	8
128	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.	1.3	3
129	Generalizing multiple examples in explanation based learning. Lecture Notes in Computer Science, 1989, , 177-183.	1.3	1
130	An application of abstract interpretation in source level program transformation. Lecture Notes in Computer Science, 1989, , 35-57.	1.3	1
131	Solving combinatorial search problems by intelligent backtracking. Information Processing Letters, 1981, 12, 36-39.	0.6	54
132	Lazy Model Expansion: Interleaving Grounding with Search. Journal of Artificial Intelligence Research, 0, 52, 235-286.	7.0	16