Alberto Pettorossi

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Transformation of logic programs: Foundations and techniques. The Journal of Logic Programming, 1994, 19-20, 261-320.	1.7	143
2	Rules and strategies for transforming functional and logic programs. ACM Computing Surveys, 1996, 28, 360-414.	23.0	108
3	VeriMAP: A Tool for Verifying Programs through Transformations. Lecture Notes in Computer Science, 2014, , 568-574.	1.3	52
4	Unfolding-definition-folding, in this order, for avoiding unnecessary variables in logic programs. Theoretical Computer Science, 1995, 142, 89-124.	0.9	47
5	A powerful strategy for deriving efficient programs by transformation. , 1984, , .		45
6	Synthesis and transformation of logic programs using unfold/fold proofs. The Journal of Logic Programming, 1999, 41, 197-230.	1.7	36
7	Generalization strategies for the verification of infinite state systems. Theory and Practice of Logic Programming, 2013, 13, 175-199.	1.5	32
8	Program verification via iterated specialization. Science of Computer Programming, 2014, 95, 149-175.	1.9	30
9	The loop absorption and the generalization strategies for the development of logic programs and partial deduction. The Journal of Logic Programming, 1993, 16, 123-161.	1.7	29
10	Unfolding — definition — folding, in this order, for avoiding unnecessary variables in logic programs. Lecture Notes in Computer Science, 1991, , 347-358.	1.3	23
11	Relational Verification Through Horn Clause Transformation. Lecture Notes in Computer Science, 2016, , 147-169.	1.3	22
12	Semantics-based generation of verification conditions via program specialization. Science of Computer Programming, 2017, 147, 78-108.	1.9	21
13	Deriving very efficient algorithms for evaluating linear recurrence relations using the program transformation technique. Acta Informatica, 1982, 18, 181.	0.5	20
14	Synthesis of eureka predicates for developing logic programs. Lecture Notes in Computer Science, 1990, , 306-325.	1.3	20
15	Semantics-based generation of verification conditions by program specialization. , 2015, , .		19
16	Solving Horn Clauses on Inductive Data Types Without Induction. Theory and Practice of Logic Programming, 2018, 18, 452-469.	1.5	19
17	Analysis and Transformation of Constrained Horn Clauses for Program Verification. Theory and Practice of Logic Programming, 2022, 22, 974-1042.	1.5	19
18	Automated Strategies for Specializing Constraint Logic Programs. Lecture Notes in Computer Science, 2001, , 125-146.	1.3	17

#	Article	IF	CITATIONS
19	Reducing nondeterminism while specializing logic programs. , 1997, , .		16
20	Semantics preserving transformation rules for Prolog. , 1991, , .		15
21	Proving correctness of imperative programs by linearizing constrained Horn clauses. Theory and Practice of Logic Programming, 2015, 15, 635-650.	1.5	15
22	A comparative revisitation of some program transformation techniques. Lecture Notes in Computer Science, 1996, , 355-385.	1.3	15
23	Semantics preserving transformation rules for Prolog. ACM SIGPLAN Notices, 1991, 26, 274-284.	0.2	12
24	Verifying programs via iterated specialization. , 2013, , .		11
25	Derivation of an O(k2 log n) algorithm for computing order-k fibonacci numbers from the O(k3log n) matrix multiplication method. Information Processing Letters, 1980, 11, 172-179.	0.6	10
26	Verification of Sets of Infinite State Processes Using Program Transformation. Lecture Notes in Computer Science, 2002, , 111-128.	1.3	10
27	A Rule-based Verification Strategy for Array Manipulating Programs. Fundamenta Informaticae, 2015, 140, 329-355.	0.4	9
28	Predicate Pairing for program verification. Theory and Practice of Logic Programming, 2018, 18, 126-166.	1.5	9
29	Program development using lambda abstraction. Lecture Notes in Computer Science, 1987, , 420-434.	1.3	9
30	Verifying Array Programs by Transforming Verification Conditions. Lecture Notes in Computer Science, 2014, , 182-202.	1.3	9
31	Higher order generalization in program derivation. , 1987, , 182-196.		8
32	Improving Reachability Analysis of Infinite State Systems by Specialization. Fundamenta Informaticae, 2012, 119, 281-300.	0.4	8
33	Removing Algebraic Data Types from Constrained Horn Clauses Using Difference Predicates. Lecture Notes in Computer Science, 2020, , 83-102.	1.3	8
34	Towers of Hanoi problems: Deriving iterative solutions by program transformations. BIT Numerical Mathematics, 1985, 25, 327-334.	2.0	7
35	Rules and strategies for program transformation. Lecture Notes in Computer Science, 1993, , 263-304.	1.3	7
36	Program Derivation = Rules + Strategies. Lecture Notes in Computer Science, 2002, , 273-309.	1.3	7

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37	Deciding Full Branching Time Logic by Program Transformation. Lecture Notes in Computer Science, 2010, , 5-21.	1.3	7
38	Observers, experiments, and agents: A comprehensive approach to parallelism. Lecture Notes in Computer Science, 1990, , 375-406.	1.3	6
39	A theory of logic program specialization and generalization for dealing with input data properties. Lecture Notes in Computer Science, 1996, , 386-408.	1.3	6
40	Synthesis of Programs from Unfold/Fold Proofs. Workshops in Computing, 1994, , 141-158.	0.4	6
41	Program Specialization for Verifying Infinite State Systems: An Experimental Evaluation. Lecture Notes in Computer Science, 2011, , 164-183.	1.3	6
42	Verification of Imperative Programs by Constraint Logic Program Transformation. Electronic Proceedings in Theoretical Computer Science, EPTCS, 0, 129, 186-210.	0.8	6
43	Verifying Catamorphism-Based Contracts using Constrained Horn Clauses. Theory and Practice of Logic Programming, 0, , 1-18.	1.5	6
44	Transformations of logic programs on infinite lists. Theory and Practice of Logic Programming, 2010, 10, 383-399.	1.5	5
45	Controlling Polyvariance for Specialization-based Verification. Fundamenta Informaticae, 2013, 124, 483-502.	0.4	5
46	Future directions in program transformation. ACM Computing Surveys, 1996, 28, 171.	23.0	5
47	Proving Properties of Constraint Logic Programs by Eliminating Existential Variables. Lecture Notes in Computer Science, 2006, , 179-195.	1.3	5
48	Program Derivation via List Introduction. IFIP Advances in Information and Communication Technology, 1997, , 296-323.	0.7	5
49	On subrecursiveness in weak combinatory logic. Lecture Notes in Computer Science, 1975, , 297-311.	1.3	4
50	Derivation of efficient programs for computing sequences of actions. Theoretical Computer Science, 1987, 53, 151-167.	0.9	4
51	Rules and Strategies for Contextual Specialization of Constraint Logic Programs. Electronic Notes in Theoretical Computer Science, 2000, 30, 129-144.	0.9	4
52	The List Introduction Strategy for the Derivation of Logic Programs. Formal Aspects of Computing, 2002, 13, 233-251.	1.8	4
53	Transformations of logic programs with goals as arguments. Theory and Practice of Logic Programming, 2004, 4, 495-537.	1.5	4
54	Program transformation for development, verification, and synthesis of programs. Intelligenza Artificiale, 2011, 5, 119-125.	1.6	4

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55	Synthesizing Concurrent Programs Using Answer Set Programming. Fundamenta Informaticae, 2012, 120, 205-229.	0.4	4
56	Constraint-based correctness proofs for logic program transformations. Formal Aspects of Computing, 2012, 24, 569-594.	1.8	4
57	Comparing and putting together recursive path ordering, simplification orderings and Non-Ascending Property for termination proofs of term rewriting systems. Lecture Notes in Computer Science, 1981, , 432-447.	1.3	4
58	Enriched categories for local and interaction calculi. Lecture Notes in Computer Science, 1987, , 57-70.	1.3	4
59	DERIVATION OF PROGRAMS WHICH TRAVERSE THEIR INPUT DATA ONLY ONCE. , 1989, , 165-184.		4
60	Specialization with Constrained Generalization for Software Model Checking. Lecture Notes in Computer Science, 2013, , 51-70.	1.3	4
61	A theory of totally correct logic program transformations. , 2004, , .		3
62	Proving Theorems by Program Transformation. Fundamenta Informaticae, 2013, 127, 115-134.	0.4	3
63	Program Verification using Constraint Handling Rules and Array Constraint Generalizations*. Fundamenta Informaticae, 2017, 150, 73-117.	0.4	3
64	Enhancing partial deduction via unfold/fold rules. Lecture Notes in Computer Science, 1997, , 146-168.	1.3	3
65	The Transformational Approach to Program Development. Lecture Notes in Computer Science, 2010, , 112-135.	1.3	3
66	Improving Reachability Analysis of Infinite State Systems by Specialization. Lecture Notes in Computer Science, 2011, , 165-179.	1.3	3
67	Categorical models of process cooperation. Lecture Notes in Computer Science, 1986, , 282-298.	1.3	3
68	An Abstract Strategy for Transforming Logic Programs 1. Fundamenta Informaticae, 1993, 18, 267-286.	0.4	3
69	Lemma Generation for Horn Clause Satisfiability: A Preliminary Study. Electronic Proceedings in Theoretical Computer Science, EPTCS, 0, 299, 4-18.	0.8	3
70	Satisfiability of constrained Horn clauses on algebraic data types: A transformation-based approach. Journal of Logic and Computation, 0, , .	0.8	3
71	Developing correct and efficient logic programs by transformation. Knowledge Engineering Review, 1996, 11, 347-360.	2.6	2
72	Derivation of Efficient Logic Programs by Specialization and Reduction of Nondeterminism. Higher-Order and Symbolic Computation, 2005, 18, 121-210.	0.3	2

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73	Semantics and Controllability of Time-Aware Business Processes*. Fundamenta Informaticae, 2019, 165, 205-244.	0.4	2
74	Predicate Pairing with Abstraction for Relational Verification. Lecture Notes in Computer Science, 2018, , 289-305.	1.3	2
75	Best-first Strategies for Incremental Transformations of Logic Programs. Workshops in Computing, 1993, , 82-98.	0.4	2
76	Verification of Time-Aware Business Processes Using Constrained Horn Clauses. Lecture Notes in Computer Science, 2017, , 38-55.	1.3	2
77	Verifying Controllability of Time-Aware Business Processes. Lecture Notes in Computer Science, 2017, , 103-118.	1.3	2
78	Property-Based Test Case Generators for Free. Lecture Notes in Computer Science, 2019, , 186-206.	1.3	2
79	Proving Properties of Sorting Programs: A Case Study in Horn Clause Verification. Electronic Proceedings in Theoretical Computer Science, EPTCS, 0, 296, 48-75.	0.8	2
80	A transformational approach for developing parallel programs. Lecture Notes in Computer Science, 1981, , 245-258.	1.3	1
81	Transformation strategies for deriving on line programs. , 1986, , 127-141.		1
82	Program specialization via algorithmic unfold/fold transformations. ACM Computing Surveys, 1998, 30, 6.	23.0	1
83	Totally correct logic program transformations viaÂwell-founded annotations. Higher-Order and Symbolic Computation, 2008, 21, 193-234.	0.3	1
84	Solving Horn Clauses on Inductive Data Types Without Induction – ERRATUM. Theory and Practice of Logic Programming, 2019, 19, 629.	1.5	1
85	Future directions in program transformation. ACM SIGPLAN Notices, 1997, 32, 99-102.	0.2	1
86	Transformation Rules for Logic Programs with Goals as Arguments. Lecture Notes in Computer Science, 2000, , 176-195.	1.3	1
87	Combining Logic Programs and Monadic Second Order Logics by Program Transformation. Lecture Notes in Computer Science, 2003, , 160-181.	1.3	1
88	Transformational Verification of Parameterized Protocols Using Array Formulas. Lecture Notes in Computer Science, 2006, , 23-43.	1.3	1
89	A Folding Algorithm for Eliminating Existential Variables from Constraint Logic Programs. Lecture Notes in Computer Science, 2008, , 284-300.	1.3	1
90	A methodology for improving parallel programs by adding communications. Lecture Notes in Computer Science, 1985, , 228-250.	1.3	1

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#	Article	IF	CITATIONS
91	Bounded Symbolic Execution for Runtime Error Detection of Erlang Programs. Electronic Proceedings in Theoretical Computer Science, EPTCS, 0, 278, 19-26.	0.8	1
92	The Use of the Tupling Strategy in the Development of Parallel Programs. , 1993, , 111-151.		1
93	A property which guarantees termination in weak combinatory logic and subtree replacement systems Notre Dame Journal of Formal Logic, 1981, 22, 344.	0.4	0
94	Higher-order communications for concurrent programming. Parallel Computing, 1984, 1, 331-336.	2.1	0
95	Advances in Computational Logic (CILC08). Fundamenta Informaticae, 2009, 96, i-ii.	0.4	0
96	A Folding Rule for Eliminating Existential Variables from Constraint Logic Programs. Fundamenta Informaticae, 2009, 96, 373-393.	0.4	0
97	RCRA 2009 Experimental Evaluation of Algorithms for Solving Problems with Combinatorial Explosion. Fundamenta Informaticae, 2011, 107, i-ii.	0.4	0
98	Derivation of Efficient Logic Programs by Specialization and Reduction of Nondeterminism. , 2008, , 130-177.		0
99	Using Real Relaxations during Program Specialization. Lecture Notes in Computer Science, 2012, , 106-122.	1.3	0
100	An approach to communications and parallelism in applicative languages. Lecture Notes in Computer Science, 1981, , 432-446.	1.3	0
101	Removing Unnecessary Variables from Horn Clause Verification Conditions. Electronic Proceedings in Theoretical Computer Science, EPTCS, 0, 219, 49-55.	0.8	0
102	A Historical Account of My Early Research Interests. Electronic Proceedings in Theoretical Computer Science, EPTCS, 0, 320, 1-28.	0.8	0
103	Towards a theory of parallelism and communications for increasing efficiency in applicative languages. Lecture Notes in Computer Science, 1983, , 224-249.	1.3	0
104	Automatic Proofs of Protocols via Program Transformation. , 2005, , 99-116.		0