

# Alberto Policriti

## List of Publications by Year in descending order

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Version: 2024-02-01

76  
papers

5,974  
citations

394421

19  
h-index

128289

60  
g-index

83  
all docs

83  
docs citations

83  
times ranked

7929  
citing authors

#	ARTICLE	IF	CITATIONS
1	The grapevine genome sequence suggests ancestral hexaploidization in major angiosperm phyla. <i>Nature</i> , 2007, 449, 463-467.	27.8	3,384
2	The high-quality draft genome of peach ( <i>Prunus persica</i> ) identifies unique patterns of genetic diversity, domestication and genome evolution. <i>Nature Genetics</i> , 2013, 45, 487-494.	21.4	1,031
3	GapFiller: a de novo assembly approach to fill the gap within paired reads. <i>BMC Bioinformatics</i> , 2012, 13, S8.	2.6	324
4	The SSR-based molecular profile of 1005 grapevine ( <i>Vitis vinifera</i> L.) accessions uncovers new synonymy and parentages, and reveals a large admixture amongst varieties of different geographic origin. <i>Theoretical and Applied Genetics</i> , 2010, 121, 1569-1585.	3.6	202
5	An efficient algorithm for computing bisimulation equivalence. <i>Theoretical Computer Science</i> , 2004, 311, 221-256.	0.9	103
6	Model Building and Model Checking for Biochemical Processes. <i>Cell Biochemistry and Biophysics</i> , 2003, 38, 271-286.	1.8	77
7	Set Theory for Computing. <i>Texts and Monographs in Computer Science</i> , 2001, , .	0.7	72
8	High throughput approaches reveal splicing of primary microRNA transcripts and tissue specific expression of mature microRNAs in <i>Vitis vinifera</i> . <i>BMC Genomics</i> , 2009, 10, 558.	2.8	62
9	Modeling Biological Systems in Stochastic Concurrent Constraint Programming. <i>Constraints</i> , 2008, 13, 66-90.	0.7	46
10	rNA: a fast and accurate short reads numerical aligner. <i>Bioinformatics</i> , 2012, 28, 123-124.	4.1	37
11	Hybrid dynamics of stochastic programs. <i>Theoretical Computer Science</i> , 2010, 411, 2052-2077.	0.9	31
12	Decision procedures for elementary sublanguages of set theory IX. Unsolvability of the decision problem for a restricted subclass of the $\hat{L}^0$ -formulas in set theory. <i>Communications on Pure and Applied Mathematics</i> , 1988, 41, 221-251.	3.1	28
13	Hybrid Systems and Biology. , 2008, , 424-448.		28
14	LZ77 Computation Based on the Run-Length Encoded BWT. <i>Algorithmica</i> , 2018, 80, 1986-2011.	1.3	27
15	Stochastic Concurrent Constraint Programming and Differential Equations. <i>Electronic Notes in Theoretical Computer Science</i> , 2007, 190, 27-42.	0.9	26
16	Expressing infinity without foundation. <i>Journal of Symbolic Logic</i> , 1991, 56, 1230-1235.	0.5	24
17	Decidability of $\hat{\alpha}^*$ -Sentences in Membership Theories. <i>Mathematical Logic Quarterly</i> , 1996, 42, 41-58.	0.2	21
18	A Uniform Axiomatic View of Lists, Multisets, and Sets, and the Relevant Unification Algorithms. <i>Fundamenta Informaticae</i> , 1998, 36, 201-234.	0.4	21

#	ARTICLE	IF	CITATIONS
19	Decision procedures for elementary sublanguages of set theory: XIII. Model graphs, reflection and decidability. <i>Journal of Automated Reasoning</i> , 1991, 7, 271.	1.4	20
20	The Bernays-Schönfinkel-Ramsey class for set theory: semidecidability. <i>Journal of Symbolic Logic</i> , 2010, 75, 459-480.	0.5	20
21	Decidability Results for Metric and Layered Temporal Logics. <i>Notre Dame Journal of Formal Logic</i> , 1996, 37, 260.	0.4	19
22	Note on "The Logically Simplest Form of the Infinity Axiom". <i>Proceedings of the American Mathematical Society</i> , 1990, 108, 285.	0.8	18
23	Solvable set/hyperset contexts: I. Some decision procedures for the pure, finite case. <i>Communications on Pure and Applied Mathematics</i> , 1995, 48, 1123-1155.	3.1	17
24	Counting extensional acyclic digraphs. <i>Information Processing Letters</i> , 2011, 111, 787-791.	0.6	16
25	Physical mapping in highly heterozygous genomes: a physical contig map of the Pinot Noir grapevine cultivar. <i>BMC Genomics</i> , 2010, 11, 204.	2.8	15
26	Ackermann encoding, bisimulations and OBDDs. <i>Theory and Practice of Logic Programming</i> , 2004, 4, 695-718.	1.5	14
27	Dynamical Systems and Stochastic Programming: To Ordinary Differential Equations and Back. <i>Lecture Notes in Computer Science</i> , 2009, , 216-267.	1.3	14
28	Modeling Cellular Behavior with Hybrid Automata: Bisimulation and Collapsing. <i>Lecture Notes in Computer Science</i> , 2003, , 57-74.	1.3	13
29	Three-variable statements of set-pairing. <i>Theoretical Computer Science</i> , 2004, 322, 147-173.	0.9	11
30	Wheeler languages. <i>Information and Computation</i> , 2021, 281, 104820.	0.7	11
31	Discrete Semantics for Hybrid Automata. <i>Discrete Event Dynamic Systems: Theory and Applications</i> , 2009, 19, 471-493.	1.5	10
32	Fast, accurate, and lightweight analysis of BS-treated reads with ERNE 2. <i>BMC Bioinformatics</i> , 2016, 17, 69.	2.6	9
33	Set-syllogistics meet combinatorics. <i>Mathematical Structures in Computer Science</i> , 2017, 27, 296-310.	0.6	9
34	Hybrid Semantics of Stochastic Programs with Dynamic Reconfiguration. <i>Electronic Proceedings in Theoretical Computer Science</i> , EPTCS, 0, 6, 63-76.	0.8	9
35	A derived algorithm for evaluating $\mathcal{E}$ -expressions over abstract sets. <i>Journal of Symbolic Computation</i> , 1993, 15, 673-704.	0.8	8
36	Automated FingerPrint Background removal: FPB. <i>BMC Bioinformatics</i> , 2009, 10, 127.	2.6	8

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37	The Importance of Being (A Little Bit) Discrete. <i>Electronic Notes in Theoretical Computer Science</i> , 2009, 229, 75-92.	0.9	8
38	Mapping Sets and Hypersets into Numbers. <i>Fundamenta Informaticae</i> , 2015, 140, 307-328.	0.4	8
39	Modal Deduction in Second-Order Logic and Set Theory - II. <i>Studia Logica</i> , 1998, 60, 387-420.	0.6	7
40	Hybrid Dynamics of Stochastic IŁ-Calculus. <i>Mathematics in Computer Science</i> , 2009, 2, 465-491.	0.4	7
41	A randomized Numerical Aligner (rNA). <i>Journal of Computer and System Sciences</i> , 2012, 78, 1868-1882.	1.2	7
42	Fast Online Lempel-Ziv Factorization in Compressed Space. <i>Lecture Notes in Computer Science</i> , 2015, , 13-20.	1.3	7
43	Decidable Theories of IŁ-Layered Metric Temporal Structures. <i>Applied Logic Series</i> , 2000, , 91-108.	0.3	7
44	Witnessing differences without redundancies. <i>Proceedings of the American Mathematical Society</i> , 1997, 125, 587-594.	0.8	6
45	T-Resolution: Refinements and Model Elimination. <i>Journal of Automated Reasoning</i> , 1999, 22, 433-483.	1.4	6
46	Constraint-Based Simulation of Biological Systems Described by Molecular Interaction Maps. , 2007, , .		6
47	Hybrid approximation of stochastic process algebras for systems biology. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2008, 41, 12599-12606.	0.4	6
48	Stochastic Programs and Hybrid Automata for (Biological) Modeling. <i>Lecture Notes in Computer Science</i> , 2009, , 37-48.	1.3	6
49	Solvable Set/Hyperset Contexts: II. A Goal-Driven Unification Algorithm for the Blended Case. <i>Applicable Algebra in Engineering, Communications and Computing</i> , 1999, 9, 293-332.	0.5	5
50	Fast randomized approximate string matching with succinct hash data structures. <i>BMC Bioinformatics</i> , 2015, 16, S4.	2.6	5
51	A Sense of Life: Computational and Experimental Investigations with Models of Biochemical and Evolutionary Processes. <i>OMICS A Journal of Integrative Biology</i> , 2003, 7, 253-268.	2.0	4
52	Discreteness, hybrid automata, and biology. , 2008, , .		4
53	Studying cancer-cell populations by programmable models of networks. <i>Network Modeling Analysis in Health Informatics and Bioinformatics</i> , 2012, 1, 117-133.	2.1	4
54	THE DECISION PROBLEM FOR RESTRICTED UNIVERSAL QUANTIFICATION IN SET THEORY AND THE AXIOM OF FOUNDATION. <i>Zeitschrift FÅ¼r Mathematische Logik Und Grundlagen Der Mathematik</i> , 1992, 38, 143-156.	0.2	3

#	ARTICLE	IF	CITATIONS
55	Decision procedures for set/hyperset contexts. , 1993, , 192-215.		3
56	Well-quasi-ordering hereditarily finite sets. International Journal of Computer Mathematics, 2013, 90, 1278-1291.	1.8	3
57	On Sets and Graphs. , 2017, , .		3
58	Comparing Expressiveness of Set Constructor Symbols. Lecture Notes in Computer Science, 2000, , 275-289.	1.3	3
59	Programmable models of growth and mutation of cancer-cell populations. Electronic Proceedings in Theoretical Computer Science, EPTCS, 0, 67, 19-33.	0.8	3
60	Solving String Problems on Graphs Using the Labeled Direct Product. Algorithmica, 0, , .	1.3	3
61	Towards Tableau-Based Decision Procedures for Non-Well-Founded Fragments of Set Theory. Lecture Notes in Computer Science, 2000, , 368-382.	1.3	2
62	Alternative Translation Techniques for Propositional and First-Order Modal Logics. Journal of Automated Reasoning, 2002, 28, 397-415.	1.4	1
63	mrNA: The MPI Randomized Numerical Aligner. , 2011, , .		1
64	Well-Quasi-Ordering Hereditarily Finite Sets. Lecture Notes in Computer Science, 2011, , 440-451.	1.3	1
65	Derivability in Locally Quantified Modal Logics via Translation in Set Theory. Lecture Notes in Computer Science, 2000, , 559-568.	1.3	1
66	Banishing Ultrafilters from Our Consciousness. Outstanding Contributions To Logic, 2016, , 255-283.	0.3	1
67	Reasoning on Relations, Modalities, and Sets. Outstanding Contributions To Logic, 2018, , 129-168.	0.3	1
68	A Multi-objective Optimisation Approach to the Design of Experiment in De Novo Assembly Projects. , 2012, , .		0
69	Sets, Graphs, and Set Universes. , 2017, , 59-97.		0
70	Random Generation of Sets. , 2017, , 201-216.		0
71	Graphs as Transitive Sets. , 2017, , 129-172.		0
72	Counting and Encoding Sets. , 2017, , 175-199.		0

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73	Membership and Edge Relations. , 2017, , 31-58.		0
74	Infinite Sets and Finite Combinatorics. , 2017, , 217-250.		0
75	The Undirected Structure Underlying Sets. , 2017, , 101-127.		0
76	Hybrid Semantics for Stochastic $\lambda$ -Calculus. Lecture Notes in Computer Science, 2008, , 40-55.	1.3	0