Domenico A Cantone

List of Publications by Year
in descending order

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70	569	840776 11	794594 19
papers	citations	h-index	g-index

77	77	77	206
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Set Theory for Computing. Texts and Monographs in Computer Science, 2001, , .	0.7	72
2	Antipole tree indexing to support range search and k-nearest neighbor search in metric spaces. IEEE Transactions on Knowledge and Data Engineering, 2005, 17, 535-550.	5.7	47
3	Computational Logic and Set Theory. , 2011, , .		28
4	The automation of syllogistic. Journal of Automated Reasoning, 1990, 6, 173-187.	1.4	27
5	Efficient string-matching allowing for non-overlapping inversions. Theoretical Computer Science, 2013, 483, 85-95.	0.9	24
6	A Computerized Referee. Lecture Notes in Computer Science, 2006, , 117-139.	1.3	18
7	Decision procedures for elementary sublanguages of set theory. V. Multilevel syllogistic extended by the general union operator. Journal of Computer and System Sciences, 1987, 34, 1-18.	1.2	16
8	A compact representation of nondeterministic (suffix) automata for the bit-parallel approach. Information and Computation, 2012, 213, 3-12.	0.7	16
9	xmlns:xocs="http://www.elsevier.com/xml/xocs/dtd" xmlns:xs="http://www.w3.org/2001/XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns="http://www.elsevier.com/xml/ja/dtd" xmlns:ja="http://www.elsevier.com/xml/ja/dtd" xmlns:mml="http://www.w3.org/1998/Math/MathML" xmlns:tb="http://www.elsevier.com/xml/common/table/dtd"	1.8	16
10	Two-Levels-Greedy: a generalization of Dijkstra's shortest path algorithm. Electronic Notes in Discrete Mathematics, 2004, 17, 81-86.	0.4	14
11	Decision procedures for elementary sublanguages of set theory. IV. Formulae involving a rank operator or one occurrence of Îž(x)={{y} | y Ìµx}. Communications on Pure and Applied Mathematics, 1987, 40, 37-77.	3.1	11
12	Formative Processes with Applications to the Decision Problem in Set Theory. Information and Computation, 2002, 172, 165-201.	0.7	11
13	A Compact Representation of Nondeterministic (Suffix) Automata for the Bit-Parallel Approach. Lecture Notes in Computer Science, 2010, , 288-298.	1.3	11
14	The automation of syllogistic I. Syllogistic normal forms. Journal of Symbolic Computation, 1988, 6, 83-98.	0.8	10
15	A fast saturation strategy for set-theoretic tableaux. Lecture Notes in Computer Science, 1997, , 122-137.	1.3	10
16	Compiling dyadic first-order specifications into map algebra. Theoretical Computer Science, 2003, 293, 447-475.	0.9	10
17	A New Fast Tableau-Based Decision Procedure for an Unquantified Fragment of Set Theory. Lecture Notes in Computer Science, 2000, , 126-136.	1.3	10
18	Decision procedures for elementary sublanguages of set theory: X. Multilevel syllogistic extended by the singleton and powerset operators. Journal of Automated Reasoning, 1991, 7, 193.	1.4	9

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19	An Efficient Approximate Algorithm for the 1-Median Problem in Metric Spaces. SIAM Journal on Optimization, 2005, 16, 434-451.	2.0	8
20	Linear and Efficient String Matching Algorithms Based on Weak Factor Recognition. Journal of Experimental Algorithmics, 2019, 24, 1-20.	1.0	8
21	On the Satisfiability Problem for a 4-level Quantified Syllogistic and Some Applications to Modal Logic. Fundamenta Informaticae, 2013, 124, 427-448.	0.4	7
22	A Tableau Calculus for Integrating First-Order and Elementary Set Theory Reasoning. Lecture Notes in Computer Science, 2000, , 143-159.	1.3	7
23	An Efficient Algorithm for Î´-Approximate Matching with Î±-Bounded Gaps in Musical Sequences. Lecture Notes in Computer Science, 2005, , 428-439.	1.3	7
24	Decision procedures for elementary sublanguages of set theory: XI. Multilevel syllogistic extended by some elementary map constructs. Journal of Automated Reasoning, 1991, 7, 231.	1.4	6
25	Decision algorithms for elementary topology I. Topological syllogistics with set and map constructs, connectedness, and cardinality comparison. Communications on Pure and Applied Mathematics, 1994, 47, 1197-1217.	3.1	6
26	Techniques of computable set theory with applications to proof verification. Communications on Pure and Applied Mathematics, 1995, 48, 901-945.	3.1	6
27	Dual tableau-based decision procedures for relational logics with restricted composition operator. Journal of Applied Non-Classical Logics, 2011, 21, 177-200.	0.5	6
28	A decidable two-sorted quantified fragment of set theory with ordered pairs and some undecidable extensions. Theoretical Computer Science, 2014, 560, 307-325.	0.9	6
29	Congruence relations on a choice space. Social Choice and Welfare, 2019, 52, 247-294.	0.8	6
30	Web Ontology Representation and Reasoning via Fragments of Set Theory. Lecture Notes in Computer Science, 2015, , 61-76.	1.3	6
31	Decision algorithms for fragments of real analysis. I. Continuous functions with strict convexity and concavity predicates. Journal of Symbolic Computation, 2006, 41, 763-789.	0.8	5
32	Formative processes with applications to the decision problem in set theory: II. Powerset and singleton operators, finiteness predicate. Information and Computation, 2014, 237, 215-242.	0.7	5
33	Complexity assessments for decidable fragments of set theory. II: A taxonomy for â€˜smallâ€™ languages involving membership. Theoretical Computer Science, 2020, 848, 28-46.	0.9	5
34	Complexity Assessments for Decidable Fragments of Set Theory. I: A Taxonomy for the Boolean Case*. Fundamenta Informaticae, 2021, 181, 37-69.	0.4	5
35	A Set-Theoretic Approach to ABox Reasoning Services. Lecture Notes in Computer Science, 2017, , 87-102.	1.3	5
36	A Decision Procedure for a Sublanguage of Set Theory Involving Monotone, Additive, and Multiplicative Functions, I: The Two-Level Case. Journal of Automated Reasoning, 2004, 33, 251-269.	1.4	4

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37	A Sound Framework for Î´-Rule Variants in Free-Variable Semantic Tableaux. Journal of Automated Reasoning, 2007, 38, 31-56.	1.4	4
38	On the bit-parallel simulation of the nondeterministic Ahoâ€“Corasick and suffix automata for a set of patterns. Journal of Discrete Algorithms, 2012, 11, 25-36.	0.7	4
39	Choice resolutions. Social Choice and Welfare, 2021, 56, 713-753.	0.8	4
40	A Tableau-Based Decision Procedure for a Fragment of Set Theory Involving a Restricted Form of Quantification. Lecture Notes in Computer Science, 1999, , 97-112.	1.3	4
41	Decision procedures for stratified set-theoretic syllogistics. , 1993, , .		3
42	A SPACE EFFICIENT BIT-PARALLEL ALGORITHM FOR THE MULTIPLE STRING MATCHING PROBLEM. International Journal of Foundations of Computer Science, 2006, 17, 1235-1251.	1.1	3
43	NEW EFFICIENT BIT-PARALLEL ALGORITHMS FOR THE (Î´, Î±)-MATCHING PROBLEM WITH APPLICATIONS IN MUSIC INFORMATION RETRIEVAL. International Journal of Foundations of Computer Science, 2009, 20, 1087-1108.	1.1	3
44	Efficient Matching of Biological Sequences Allowing for Non-overlapping Inversions. Lecture Notes in Computer Science, 2011, , 364-375.	1.3	3
45	ADAPTING BOYER-MOORE-LIKE ALGORITHMS FOR SEARCHING HUFFMAN ENCODED TEXTS. International Journal of Foundations of Computer Science, 2012, 23, 343-356.	1.1	3
46	Improved and self-tuned occurrence heuristics. Journal of Discrete Algorithms, 2014, 28, 73-84.	0.7	3
47	The order-preserving pattern matching problem in practice. Discrete Applied Mathematics, 2020, 274, 11-25.	0.9	3
48	A Decision Procedure for Monotone Functions over Bounded and Complete Lattices. Lecture Notes in Computer Science, 2006, , 318-333.	1.3	3
49	A Tableau-Based Decision Procedure for a Fragment of Set Theory with Iterated Membership. Journal of Automated Reasoning, 2005, 34, 49-72.	1.4	2
50	PATTERN MATCHING WITH SWAPS IN PRACTICE. International Journal of Foundations of Computer Science, 2012, 23, 323-342.	1.1	2
51	Further analysis of the remedian algorithm. Theoretical Computer Science, 2013, 495, 1-16.	0.9	2
52	A combinedgreedy-walkheuristic and simulated annealing approach for the closest string problem. Optimization Methods and Software, 2014, 29, 673-702.	2.4	2
53	Fast shortest-paths algorithms in the presence of few destinations of negative-weight arcs. Journal of Discrete Algorithms, 2014, 24, 12-25.	0.7	2
54	Text searching allowing for inversions and translocations of factors. Discrete Applied Mathematics, 2014, 163, 247-257.	0.9	2

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55	An Introduction to the Technique of Formative Processes in Set Theory. , 2018, , .		2
56	An Optimized KE-Tableau-Based System for Reasoning in the Description Logic $${mathcal {DL}}_{{mathbf {D}}}^{4,!imes }$$. Lecture Notes in Computer Science, 2018, , 239-247.	1.3	2
57	A Set-theoretic Approach to Reasoning Services for the Description Logic ? â„’ D 4,Ã—. Fundamenta Informaticae, 2020, 176, 349-384.	0.4	2
58	Towards ontological interoperability of cognitive IoT agents based on natural language processingÂ¶. Intelligenza Artificiale, 2022, 16, 93-112.	1.6	2
59	A Decision Procedure for a Sublanguage of Set Theory Involving Monotone, Additive, and Multiplicative Functions1 1This research has been partially supported by MURST Grant prot. 2001017741 under project â€œRagionamento su aggregati e numeri a supporto della programmazione e relative verificheâ€•. Electronic Notes in Theoretical Computer Science, 2003, 86, 49-60.	0.9	1
60	ON SOME COMBINATORIAL PROBLEMS CONCERNING THE HARMONIC STRUCTURE OF MUSICAL CHORD SEQUENCES. International Journal of Foundations of Computer Science, 2008, 19, 103-124.	1.1	1
61	A graphical representation of relational formulae with complementation. RAIRO - Theoretical Informatics and Applications, 2012, 46, 261-289.	0.5	1
62	Decision Procedures for Elementary Sublanguages of Set Theory. XVII. Commonly Occurring Decidable Extensions of Multi-level Syllogistic. , 2013, , 47-85.		1
63	The Decision Problem for a Three-sorted Fragment of Set Theory with Restricted Quantification and Finite Enumerations. Electronic Notes in Theoretical Computer Science, 2016, 322, 69-86.	0.9	1
64	The Satisfiability Problem for Boolean Set Theory with a Choice Correspondence. Electronic Proceedings in Theoretical Computer Science, EPTCS, 0, 256, 61-75.	0.8	1
65	Yet Another Proof Without Words of the Pythagorean Theorem. Mathematics Magazine, 2020, 93, 306-306.	0.1	0
66	The ideal Benedictine Monastery: From the Saint Gall map to ontologies. Applied Ontology, 2021, 16, 137-160.	2.0	0
67	On the Convexity of a Fragment of Pure Set Theory with Applications within a Nelson-Oppen Framework. Electronic Proceedings in Theoretical Computer Science, EPTCS, 0, 346, 195-210.	0.8	0
68	A Survey of Inference Mechanisms. , 2011, , 93-203.		0
69	Database Systems in Biology. , 2013, , 80-96.		0
70	Dual Tableau-Based Decision Procedures for Fragments of the Logic of Binary Relations. Outstanding Contributions To Logic, 2018, , 169-202.	0.3	0