

# Domenico A Cantone

## List of Publications by Year in descending order

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70  
papers

569  
citations

840776

11  
h-index

794594

19  
g-index

77  
all docs

77  
docs citations

77  
times ranked

206  
citing authors

#	ARTICLE	IF	CITATIONS
1	Towards ontological interoperability of cognitive IoT agents based on natural language processing. <i>Intelligenza Artificiale</i> , 2022, 16, 93-112.	1.6	2
2	Choice resolutions. <i>Social Choice and Welfare</i> , 2021, 56, 713-753.	0.8	4
3	The ideal Benedictine Monastery: From the Saint Gall map to ontologies. <i>Applied Ontology</i> , 2021, 16, 137-160.	2.0	0
4	Complexity Assessments for Decidable Fragments of Set Theory. I: A Taxonomy for the Boolean Case*. <i>Fundamenta Informaticae</i> , 2021, 181, 37-69.	0.4	5
5	The order-preserving pattern matching problem in practice. <i>Discrete Applied Mathematics</i> , 2020, 274, 11-25.	0.9	3
6	Complexity assessments for decidable fragments of set theory. II: A taxonomy for $\omega$ -small languages involving membership. <i>Theoretical Computer Science</i> , 2020, 848, 28-46.	0.9	5
7	Yet Another Proof Without Words of the Pythagorean Theorem. <i>Mathematics Magazine</i> , 2020, 93, 306-306.	0.1	0
8	A Set-theoretic Approach to Reasoning Services for the Description Logic $\mathcal{AL}^+$ . <i>Fundamenta Informaticae</i> , 2020, 176, 349-384.	0.4	2
9	Congruence relations on a choice space. <i>Social Choice and Welfare</i> , 2019, 52, 247-294.	0.8	6
10	Linear and Efficient String Matching Algorithms Based on Weak Factor Recognition. <i>Journal of Experimental Algorithmics</i> , 2019, 24, 1-20.	1.0	8
11	An Introduction to the Technique of Formative Processes in Set Theory. , 2018, , .		2
12	Dual Tableau-Based Decision Procedures for Fragments of the Logic of Binary Relations. <i>Outstanding Contributions To Logic</i> , 2018, , 169-202.	0.3	0
13	An Optimized KE-Tableau-Based System for Reasoning in the Description Logic $\mathcal{DL}_{\mathcal{D}}^4$ . <i>Lecture Notes in Computer Science</i> , 2018, , 239-247.	1.3	2
14	A Set-Theoretic Approach to ABox Reasoning Services. <i>Lecture Notes in Computer Science</i> , 2017, , 87-102.	1.3	5
15	$\langle \mathbf{mml:math altimg="s11.gif" display="inline" overflow="scroll" xmlns:xocs="http://www.elsevier.com/xml/xocs/dtd" xmlns:xs="http://www.w3.org/2001/XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns="http://www.elsevier.com/xml/ja/dtd" xmlns:ja="http://www.elsevier.com/xml/ja/dtd" xmlns:mml="http://www.w3.org/1998/Math/MathML" xmlns:tb="http://www.elsevier.com/xml/common/table/dtd" xmlns:tbl="http://www.elsevier.com/xml/common/struct-bib/dtd" xmlns:tbl_struct="http://www.elsevier.com/xml/common/struct-bib/dtd" \rangle$	1.8	16
16	The Decision Problem for a Three-sorted Fragment of Set Theory with Restricted Quantification and Finite Enumerations. <i>Electronic Notes in Theoretical Computer Science</i> , 2016, 322, 69-86.	0.9	1
17	Web Ontology Representation and Reasoning via Fragments of Set Theory. <i>Lecture Notes in Computer Science</i> , 2015, , 61-76.	1.3	6
18	A combined greedy-walk heuristic and simulated annealing approach for the closest string problem. <i>Optimization Methods and Software</i> , 2014, 29, 673-702.	2.4	2

#	ARTICLE	IF	CITATIONS
19	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
20	Improved and self-tuned occurrence heuristics. Journal of Discrete Algorithms, 2014, 28, 73-84.	0.7	3
21	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
22	Text searching allowing for inversions and translocations of factors. Discrete Applied Mathematics, 2014, 163, 247-257.	0.9	2
23	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
24	Efficient string-matching allowing for non-overlapping inversions. Theoretical Computer Science, 2013, 483, 85-95.	0.9	24
25	Further analysis of the remedian algorithm. Theoretical Computer Science, 2013, 495, 1-16.	0.9	2
26	Decision Procedures for Elementary Sublanguages of Set Theory. XVII. Commonly Occurring Decidable Extensions of Multi-level Syllogistic. , 2013, , 47-85.		1
27	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
28	Database Systems in Biology. , 2013, , 80-96.		0
29	PATTERN MATCHING WITH SWAPS IN PRACTICE. International Journal of Foundations of Computer Science, 2012, 23, 323-342.	1.1	2
30	ADAPTING BOYER-MOORE-LIKE ALGORITHMS FOR SEARCHING HUFFMAN ENCODED TEXTS. International Journal of Foundations of Computer Science, 2012, 23, 343-356.	1.1	3
31	A graphical representation of relational formulae with complementation. RAIRO - Theoretical Informatics and Applications, 2012, 46, 261-289.	0.5	1
32	A compact representation of nondeterministic (suffix) automata for the bit-parallel approach. Information and Computation, 2012, 213, 3-12.	0.7	16
33	On the bit-parallel simulation of the nondeterministic Aho-Corasick and suffix automata for a set of patterns. Journal of Discrete Algorithms, 2012, 11, 25-36.	0.7	4
34	Efficient Matching of Biological Sequences Allowing for Non-overlapping Inversions. Lecture Notes in Computer Science, 2011, , 364-375.	1.3	3
35	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
36	Computational Logic and Set Theory. , 2011, , .		28

#	ARTICLE	IF	CITATIONS
37	A Survey of Inference Mechanisms. , 2011, , 93-203.		0
38	A Compact Representation of Nondeterministic (Suffix) Automata for the Bit-Parallel Approach. Lecture Notes in Computer Science, 2010, , 288-298.	1.3	11
39	NEW EFFICIENT BIT-PARALLEL ALGORITHMS FOR THE $(\hat{I}, \hat{I}_{\pm})$ -MATCHING PROBLEM WITH APPLICATIONS IN MUSIC INFORMATION RETRIEVAL. International Journal of Foundations of Computer Science, 2009, 20, 1087-1108.	1.1	3
40	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
41	A Sound Framework for $\hat{I}$ -Rule Variants in Free-Variable Semantic Tableaux. Journal of Automated Reasoning, 2007, 38, 31-56.	1.4	4
42	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
43	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
44	A Computerized Referee. Lecture Notes in Computer Science, 2006, , 117-139.	1.3	18
45	A Decision Procedure for Monotone Functions over Bounded and Complete Lattices. Lecture Notes in Computer Science, 2006, , 318-333.	1.3	3
46	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
47	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
48	An Efficient Approximate Algorithm for the 1-Median Problem in Metric Spaces. SIAM Journal on Optimization, 2005, 16, 434-451.	2.0	8
49	An Efficient Algorithm for $\hat{I}$ -Approximate Matching with $\hat{I}_{\pm}$ -Bounded Gaps in Musical Sequences. Lecture Notes in Computer Science, 2005, , 428-439.	1.3	7
50	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
51	Two-Levels-Greedy: a generalization of Dijkstra's shortest path algorithm. Electronic Notes in Discrete Mathematics, 2004, 17, 81-86.	0.4	14
52	Compiling dyadic first-order specifications into map algebra. Theoretical Computer Science, 2003, 293, 447-475.	0.9	10
53	A Decision Procedure for a Sublanguage of Set Theory Involving Monotone, Additive, and Multiplicative Functions1 This research has been partially supported by MURST Grant prot. 2001017741 under project "Ragionamento su aggregati e numeri a supporto della programmazione e relative verifiche". Electronic Notes in Theoretical Computer Science, 2003, 86, 49-60.	0.9	1
54	Formative Processes with Applications to the Decision Problem in Set Theory. Information and Computation, 2002, 172, 165-201.	0.7	11

#	ARTICLE	IF	CITATIONS
55	Set Theory for Computing. Texts and Monographs in Computer Science, 2001, , .	0.7	72
56	A Tableau Calculus for Integrating First-Order and Elementary Set Theory Reasoning. Lecture Notes in Computer Science, 2000, , 143-159.	1.3	7
57	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
58	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
59	A fast saturation strategy for set-theoretic tableaux. Lecture Notes in Computer Science, 1997, , 122-137.	1.3	10
60	Techniques of computable set theory with applications to proof verification. Communications on Pure and Applied Mathematics, 1995, 48, 901-945.	3.1	6
61	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
62	Decision procedures for stratified set-theoretic syllogistics. , 1993, , .		3
63	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
64	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
65	The automation of syllogistic. Journal of Automated Reasoning, 1990, 6, 173-187.	1.4	27
66	The automation of syllogistic I. Syllogistic normal forms. Journal of Symbolic Computation, 1988, 6, 83-98.	0.8	10
67	Decision procedures for elementary sublanguages of set theory. IV. Formulae involving a rank operator or one occurrence of $\hat{\lambda}(x)=\{y\} \uparrow \mu x$ . Communications on Pure and Applied Mathematics, 1987, 40, 37-77.	3.1	11
68	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
69	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
70	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