Alain

List of Publications by Year
in descending order

68 papers	1,762 citations	430442 18 h-index	288905 40 g-index
70 all docs	70 docs citations	70 times ranked	536 citing authors

#	Article	IF	Citations
1	Commodification of accelerations for the Karp and Miller Construction. Discrete Event Dynamic Systems: Theory and Applications, 2021, 31, 251-270.	0.6	1
2	Lâ€™exploration des Ã©tats subjectifs de la conscience par la micro-analyse au croisement de lâ€™analyse cognitive et de la psychanalyse. Research in Psychoanalysis, 2021, NÂ° 30, 176-186.	0.2	0
3	Consciousness, Free Energy and Cognitive Algorithms. Frontiers in Psychology, 2020, 11, 1675.	1.1	4
4	Forward analysis for WSTS, part I: completions. Mathematical Structures in Computer Science, 2020, 30, 752-832.	0.5	1
5	Minimal Coverability Tree Construction Made Complete and Efficient. Lecture Notes in Computer Science, 2020, , 237-256.	1.0	3
6	Coverability and Termination in Recursive Petri Nets. Lecture Notes in Computer Science, 2019, , 429-448.	1.0	2
7	Handling infinitely branching well-structured transition systems. Information and Computation, 2018, 258, 28-49.	0.5	2
8	Parameterized verification of monotone information systems. Formal Aspects of Computing, 2018, 30, 463-489.	1.4	0
9	The Logical View on Continuous Petri Nets. ACM Transactions on Computational Logic, 2017, 18, 1-28.	0.7	17
10	Lâ€™analyse cognitive, la psychologie numÃ©rique et la formation des enseignants Ã lâ€™universitÃ©. Pratiques Psychologiques, 2017, 23, 303-323.	0.4	6
11	Approaching the Coverability Problem Continuously. Lecture Notes in Computer Science, 2016, , 480-496.	1.0	20
12	The Ideal Theory for WSTS. Lecture Notes in Computer Science, 2016, , 1-22.	1.0	1
13	Forward analysis and model checking for trace bounded WSTS. Theoretical Computer Science, 2016, 637, 1-29.	0.5	0
14	Reachability in Two-Dimensional Vector Addition Systems with States Is PSPACE-Complete. , 2015, , .		20
15	Recent and simple algorithms for Petri nets. Software and Systems Modeling, 2015, 14, 719-725.	2.2	50
16	Dense-choice Counter Machines revisited. Theoretical Computer Science, 2014, 542, 17-31.	0.5	0
17	Handling Infinitely Branching WSTS. Lecture Notes in Computer Science, 2014, , 13-25.	1.0	6
18	Ordinal theory for expressiveness of well-structured transition systems. Information and Computation, 2013, 224, 1-22.	0.5	2

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19	UNAMBIGUOUS CONSTRAINED AUTOMATA. International Journal of Foundations of Computer Science, 2013, 24, 1099-1116.	0.8	10
20	Reachability in Register Machines with Polynomial Updates. Lecture Notes in Computer Science, 2013, , 409-420.	1.0	15
21	BOUNDED PARIKH AUTOMATA. International Journal of Foundations of Computer Science, 2012, 23, 1691-1709.	0.8	12
22	Affine Parikh automata. RAIRO - Theoretical Informatics and Applications, 2012, 46, 511-545.	0.5	16
23	Model Checking Vector Addition Systems with one zero-test. Logical Methods in Computer Science, 2012, 8, .	0.4	2
24	Unambiguous Constrained Automata. Lecture Notes in Computer Science, 2012, , 239-250.	1.0	2
25	The Theory of WSTS: The Case of Complete WSTS. Lecture Notes in Computer Science, 2012, , 3-31.	1.0	4
26	Ordinal Theory for Expressiveness of Well Structured Transition Systems. Lecture Notes in Computer Science, 2011, , 153-167.	1.0	7
27	Forward Analysis and Model Checking for Trace Bounded WSTS. Lecture Notes in Computer Science, 2011, , 49-68.	1.0	7
28	Using mental imagery processes for teaching and research in mathematics and computer science. International Journal of Mathematical Education in Science and Technology, 2010, 41, 229-242.	0.8	7
29	Model-checking CTL* over flat Presburger counter systems. Journal of Applied Non-Classical Logics, 2010, 20, 313-344.	0.4	12
30	Mixing Coverability and Reachability to Analyze VASS with One Zero-Test. Lecture Notes in Computer Science, 2010, , 394-406.	1.0	7
31	Automatic Verification of Counter Systems With Ranking Function. Electronic Notes in Theoretical Computer Science, 2009, 239, 85-103.	0.9	0
32	Reachability in Timed Counter Systems. Electronic Notes in Theoretical Computer Science, 2009, 239, 167-178.	0.9	7
33	Forward Analysis for WSTS, PartÂII: Complete WSTS. Lecture Notes in Computer Science, 2009, , 188-199.	1.0	31
34	Towards Model-Checking Programs with Lists. Lecture Notes in Computer Science, 2009, , 56-86.	1.0	6
35	FAST: acceleration from theory to practice. International Journal on Software Tools for Technology Transfer, 2008, 10, 401-424.	1.7	64
36	Decomposition of Decidable First-Order Logics over Integers and Reals. , 2008, , .		3

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37	Reversal-Bounded Counter Machines Revisited. Lecture Notes in Computer Science, 2008, , 323-334.	1.0	17
38	On the <mml:math altimg="si1.gif" 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:sb="http://www.elsevier.com/xml/common/struct-bib/dtd" xmlns:ce="http://www.elsevier.com/x	0.5	8
39	Towards a Model-Checker for Counter Systems. Lecture Notes in Computer Science, 2006, , 493-507.	1.0	14
40	Verification of programs with half-duplex communication. Information and Computation, 2005, 202, 166-190.	0.5	56
41	On the Ï‰-language Expressive Power of Extended Petri Nets. Electronic Notes in Theoretical Computer Science, 2005, 128, 87-101.	0.9	3
42	About Fast and TReX Accelerations. Electronic Notes in Theoretical Computer Science, 2005, 128, 87-103.	0.9	5
43	The convex hull of a regular set of integer vectors is polyhedral and effectively computable. Information Processing Letters, 2005, 96, 30-35.	0.4	3
44	Flat Acceleration in Symbolic Model Checking. Lecture Notes in Computer Science, 2005, , 474-488.	1.0	49
45	A well-structured framework for analysing petri net extensions. Information and Computation, 2004, 195, 1-29.	0.5	44
46	Well-abstracted transition systems: application to FIFO automata. Information and Computation, 2003, 181, 1-31.	0.5	30
47	Monotonic Extensions of Petri Nets. Electronic Notes in Theoretical Computer Science, 2003, 68, 85-106.	0.9	13
48	How to Compose Presburger-Accelerations: Applications to Broadcast Protocols. Lecture Notes in Computer Science, 2002, , 145-156.	1.0	97
49	Well-structured transition systems everywhere!. Theoretical Computer Science, 2001, 256, 63-92.	0.5	482
50	An efficient automata approach to some problems on context-free grammars. Information Processing Letters, 2000, 74, 221-227.	0.4	19
51	An Algorithm Constructing the Semilinear Post for 2-Dim Reset/Transfer VASS. Lecture Notes in Computer Science, 2000, , 353-362.	1.0	6
52	Decidability of Reachability Problems for Classes of Two Counters Automata. Lecture Notes in Computer Science, 2000, , 346-357.	1.0	24
53	Well-Abstracted Transition Systems. Lecture Notes in Computer Science, 2000, , 566-581.	1.0	6
54	Reset nets between decidability and undecidability. Lecture Notes in Computer Science, 1998, , 103-115.	1.0	160

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55	Fundamental structures in Well-Structured infinite Transition Systems. Lecture Notes in Computer Science, 1998, , 102-118.	1.0	19
56	CapRe: a Gaze Tracking System in Man-machine Interaction. Journal of Advanced Computational Intelligence and Intelligent Informatics, 1998, 2, 77-81.	0.5	2
57	Effective Recognizability and Model Checking of Reactive Fiffo Automata. Lecture Notes in Computer Science, 1998, , 106-123.	1.0	1
58	Verifying identical communicating processes is undecidable. Theoretical Computer Science, 1997, 174, 217-230.	0.5	13
59	Unreliable Channels Are Easier to Verify Than Perfect Channels. Information and Computation, 1996, 124, 20-31.	0.5	100
60	A polynomial algorithm for the membership problem with categorial grammars. Theoretical Computer Science, 1996, 164, 207-221.	0.5	8
61	Duplication, insertion and lossiness errors in unreliable communication channels. , 1994, , .		2
62	Decidability of the termination problem for completely specified protocols. Distributed Computing, 1994, 7, 129-135.	0.7	57
63	The minimal coverability graph for Petri nets. Lecture Notes in Computer Science, 1993, , 210-243.	1.0	82
64	Reduction and covering of infinite reachability trees. Information and Computation, 1990, 89, 144-179.	0.5	58
65	Forward Analysis for WSTS, Part II: Complete WSTS. Logical Methods in Computer Science, 0, Volume 8, Issue 3, .	0.4	13
66	Dense-choice Counter Machines revisited. Electronic Proceedings in Theoretical Computer Science, EPTCS, 0, 10, 3-22.	0.8	2
67	Bounded Parikh Automata. Electronic Proceedings in Theoretical Computer Science, EPTCS, 0, 63, 93-102.	0.8	3
68	From Well Structured Transition Systems to Program Verification. Electronic Proceedings in Theoretical Computer Science, EPTCS, 0, 320, 44-49.	0.8	0