

Alain

List of Publications by Year in descending order

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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	Well-structured transition systems everywhere!. Theoretical Computer Science, 2001, 256, 63-92.	0.5	482
2	Reset nets between decidability and undecidability. Lecture Notes in Computer Science, 1998, , 103-115.	1.0	160
3	Unreliable Channels Are Easier to Verify Than Perfect Channels. Information and Computation, 1996, 124, 20-31.	0.5	100
4	How to Compose Presburger-Accelerations: Applications to Broadcast Protocols. Lecture Notes in Computer Science, 2002, , 145-156.	1.0	97
5	The minimal coverability graph for Petri nets. Lecture Notes in Computer Science, 1993, , 210-243.	1.0	82
6	FAST: acceleration from theory to practice. International Journal on Software Tools for Technology Transfer, 2008, 10, 401-424.	1.7	64
7	Reduction and covering of infinite reachability trees. Information and Computation, 1990, 89, 144-179.	0.5	58
8	Decidability of the termination problem for completely specified protocols. Distributed Computing, 1994, 7, 129-135.	0.7	57
9	Verification of programs with half-duplex communication. Information and Computation, 2005, 202, 166-190.	0.5	56
10	Recent and simple algorithms for Petri nets. Software and Systems Modeling, 2015, 14, 719-725.	2.2	50
11	Flat Acceleration in Symbolic Model Checking. Lecture Notes in Computer Science, 2005, , 474-488.	1.0	49
12	A well-structured framework for analysing petri net extensions. Information and Computation, 2004, 195, 1-29.	0.5	44
13	Forward Analysis for WSTS, PartÂAll: Complete WSTS. Lecture Notes in Computer Science, 2009, , 188-199.	1.0	31
14	Well-abstracted transition systems: application to FIFO automata. Information and Computation, 2003, 181, 1-31.	0.5	30
15	Decidability of Reachability Problems for Classes of Two Counters Automata. Lecture Notes in Computer Science, 2000, , 346-357.	1.0	24
16	Reachability in Two-Dimensional Vector Addition Systems with States Is PSPACE-Complete. , 2015, , .		20
17	Approaching the Coverability Problem Continuously. Lecture Notes in Computer Science, 2016, , 480-496.	1.0	20
18	Fundamental structures in Well-Structured infinite Transition Systems. Lecture Notes in Computer Science, 1998, , 102-118.	1.0	19

#	ARTICLE	IF	CITATIONS
19	An efficient automata approach to some problems on context-free grammars. Information Processing Letters, 2000, 74, 221-227.	0.4	19
20	The Logical View on Continuous Petri Nets. ACM Transactions on Computational Logic, 2017, 18, 1-28.	0.7	17
21	Reversal-Bounded Counter Machines Revisited. Lecture Notes in Computer Science, 2008, , 323-334.	1.0	17
22	Affine Parikh automata. RAIRO - Theoretical Informatics and Applications, 2012, 46, 511-545.	0.5	16
23	Reachability in Register Machines with Polynomial Updates. Lecture Notes in Computer Science, 2013, , 409-420.	1.0	15
24	Towards a Model-Checker for Counter Systems. Lecture Notes in Computer Science, 2006, , 493-507.	1.0	14
25	Verifying identical communicating processes is undecidable. Theoretical Computer Science, 1997, 174, 217-230.	0.5	13
26	Monotonic Extensions of Petri Nets. Electronic Notes in Theoretical Computer Science, 2003, 68, 85-106.	0.9	13
27	Forward Analysis for WSTS, Part II: Complete WSTS. Logical Methods in Computer Science, 0, Volume 8, Issue 3, .	0.4	13
28	Model-checking CTL* over flat Presburger counter systems. Journal of Applied Non-Classical Logics, 2010, 20, 313-344.	0.4	12
29	BOUNDED PARIKH AUTOMATA. International Journal of Foundations of Computer Science, 2012, 23, 1691-1709.	0.8	12
30	UNAMBIGUOUS CONSTRAINED AUTOMATA. International Journal of Foundations of Computer Science, 2013, 24, 1099-1116.	0.8	10
31	A polynomial algorithm for the membership problem with categorial grammars. Theoretical Computer Science, 1996, 164, 207-221.	0.5	8
32	On the $\langle \text{mml:math altimg="si1.gif" overflow="scroll" xmlns:xocs="http://www.elsevier.com/xml/xocs/dtd" xmlns:xs="http://www.w3.org/2001/XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns="http://www.elsevier.com/xml/ja/dtd" xmlns:ja="http://www.elsevier.com/xml/ja/dtd" xmlns:mml="http://www.w3.org/1998/Math/MathML" xmlns:tb="http://www.elsevier.com/xml/common/table/dtd" xmlns:sb="http://www.elsevier.com/xml/common/struct-bib/dtd" xmlns:ce="http://www.elsevier.com/x$	0.5	8
33	Reachability in Timed Counter Systems. Electronic Notes in Theoretical Computer Science, 2009, 239, 167-178.	0.9	7
34	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
35	Mixing Coverability and Reachability to Analyze VASS with One Zero-Test. Lecture Notes in Computer Science, 2010, , 394-406.	1.0	7
36	Ordinal Theory for Expressiveness of Well Structured Transition Systems. Lecture Notes in Computer Science, 2011, , 153-167.	1.0	7

#	ARTICLE	IF	CITATIONS
37	Forward Analysis and Model Checking for Trace Bounded WSTS. Lecture Notes in Computer Science, 2011, , 49-68.	1.0	7
38	L'analyse cognitive, la psychologie numérique et la formation des enseignants à l'université. Pratiques Psychologiques, 2017, 23, 303-323.	0.4	6
39	An Algorithm Constructing the Semilinear Post for 2-Dim Reset/Transfer VASS. Lecture Notes in Computer Science, 2000, , 353-362.	1.0	6
40	Towards Model-Checking Programs with Lists. Lecture Notes in Computer Science, 2009, , 56-86.	1.0	6
41	Handling Infinitely Branching WSTS. Lecture Notes in Computer Science, 2014, , 13-25.	1.0	6
42	Well-Abstracted Transition Systems. Lecture Notes in Computer Science, 2000, , 566-581.	1.0	6
43	About Fast and TReX Accelerations. Electronic Notes in Theoretical Computer Science, 2005, 128, 87-103.	0.9	5
44	Consciousness, Free Energy and Cognitive Algorithms. Frontiers in Psychology, 2020, 11, 1675.	1.1	4
45	The Theory of WSTS: The Case of Complete WSTS. Lecture Notes in Computer Science, 2012, , 3-31.	1.0	4
46	On the \forall -language Expressive Power of Extended Petri Nets. Electronic Notes in Theoretical Computer Science, 2005, 128, 87-101.	0.9	3
47	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
48	Decomposition of Decidable First-Order Logics over Integers and Reals. , 2008, , .		3
49	Minimal Coverability Tree Construction Made Complete and Efficient. Lecture Notes in Computer Science, 2020, , 237-256.	1.0	3
50	Bounded Parikh Automata. Electronic Proceedings in Theoretical Computer Science, EPTCS, 0, 63, 93-102.	0.8	3
51	Duplication, insertion and lossiness errors in unreliable communication channels. , 1994, , .		2
52	Ordinal theory for expressiveness of well-structured transition systems. Information and Computation, 2013, 224, 1-22.	0.5	2
53	Handling infinitely branching well-structured transition systems. Information and Computation, 2018, 258, 28-49.	0.5	2
54	CapRe: a Gaze Tracking System in Man-machine Interaction. Journal of Advanced Computational Intelligence and Intelligent Informatics, 1998, 2, 77-81.	0.5	2

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55	Model Checking Vector Addition Systems with one zero-test. Logical Methods in Computer Science, 2012, 8, .	0.4	2
56	Dense-choice Counter Machines revisited. Electronic Proceedings in Theoretical Computer Science, EPTCS, 0, 10, 3-22.	0.8	2
57	Unambiguous Constrained Automata. Lecture Notes in Computer Science, 2012, , 239-250.	1.0	2
58	Coverability and Termination in Recursive Petri Nets. Lecture Notes in Computer Science, 2019, , 429-448.	1.0	2
59	The Ideal Theory for WSTS. Lecture Notes in Computer Science, 2016, , 1-22.	1.0	1
60	Forward analysis for WSTS, part I: completions. Mathematical Structures in Computer Science, 2020, 30, 752-832.	0.5	1
61	Commodification of accelerations for the Karp and Miller Construction. Discrete Event Dynamic Systems: Theory and Applications, 2021, 31, 251-270.	0.6	1
62	Effective Recognizability and Model Checking of Reactive Fiffo Automata. Lecture Notes in Computer Science, 1998, , 106-123.	1.0	1
63	Automatic Verification of Counter Systems With Ranking Function. Electronic Notes in Theoretical Computer Science, 2009, 239, 85-103.	0.9	0
64	Dense-choice Counter Machines revisited. Theoretical Computer Science, 2014, 542, 17-31.	0.5	0
65	Forward analysis and model checking for trace bounded WSTS. Theoretical Computer Science, 2016, 637, 1-29.	0.5	0
66	Parameterized verification of monotone information systems. Formal Aspects of Computing, 2018, 30, 463-489.	1.4	0
67	L'exploration des États subjectifs de la conscience par la micro-analyse au croisement de l'analyse cognitive et de la psychanalyse. Research in Psychoanalysis, 2021, N° 30, 176-186.	0.2	0
68	From Well Structured Transition Systems to Program Verification. Electronic Proceedings in Theoretical Computer Science, EPTCS, 0, 320, 44-49.	0.8	0