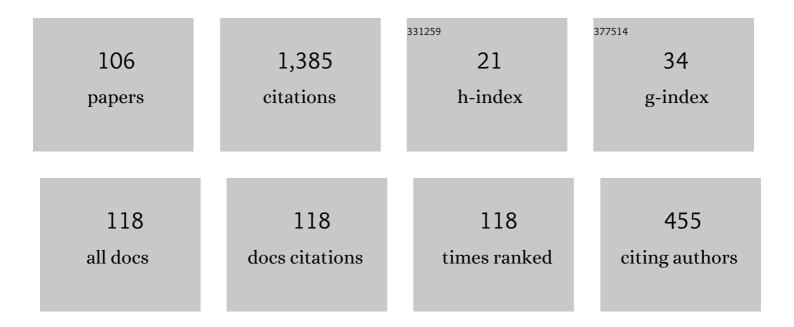
List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Reversible computing and cellular automata—A survey. Theoretical Computer Science, 2008, 395, 101-131.	0.5	132
2	Drift-compensated data acquisition performed at room temperature with frequency modulation atomic force microscopy. Applied Physics Letters, 2007, 90, 203103.	1.5	94
3	Reversible simulation of one-dimensional irreversible cellular automata. Theoretical Computer Science, 1995, 148, 157-163.	0.5	66
4	Asynchronous game of life. Physica D: Nonlinear Phenomena, 2004, 194, 369-384.	1.3	59
5	A Simple Universal Logic Element and Cellular Automata for Reversible Computing. Lecture Notes in Computer Science, 2001, , 102-113.	1.0	59
6	A computation-universal two-dimensional 8-state triangular reversible cellular automaton. Theoretical Computer Science, 2000, 231, 181-191.	0.5	53
7	Universality of a reversible two-counter machine. Theoretical Computer Science, 1996, 168, 303-320.	0.5	51
8	Deterministic one-way simulation of two-way real-time cellular automata and its related problems. Information Processing Letters, 1982, 14, 158-161.	0.4	46
9	Computation-universality of one-dimensional one-way reversible cellular automata. Information Processing Letters, 1992, 42, 325-329.	0.4	46
10	Self-reproduction in a reversible cellular space. Theoretical Computer Science, 1996, 168, 337-366.	0.5	45
11	Self-Reproduction in Three-Dimensional Reversible Cellular Space. Artificial Life, 2002, 8, 155-174.	1.0	44
12	Theory of Reversible Computing. Monographs in Theoretical Computer Science, 2017, , .	0.6	39
13	Firing squad synchronization problem in reversible cellular automata. Theoretical Computer Science, 1996, 165, 475-482.	0.5	36
14	NP problems are tractable in the space of cellular automata in the hyperbolic plane. Theoretical Computer Science, 2001, 259, 99-128.	0.5	34
15	Brownian Circuits. ACM Journal on Emerging Technologies in Computing Systems, 2013, 9, 1-24.	1.8	32
16	Two-Way Reversible Multi-Head Finite Automata. Fundamenta Informaticae, 2011, 110, 241-254.	0.3	30
17	An Asynchronous Cellular Automaton Implementing 2-State 2-Input 2-Output Reversed-Twin Reversible Elements. Lecture Notes in Computer Science, 2008, , 67-76.	1.0	27
18	Constructible functions in cellular automata and their applications to hierarchy results. Theoretical Computer Science, 2002, 270, 797-809.	0.5	24

#	Article	IF	CITATIONS
19	A Universal Reversible Turing Machine. Lecture Notes in Computer Science, 2007, , 90-98.	1.0	24
20	Universal delay-insensitive circuits with bidirectional and buffering lines. IEEE Transactions on Computers, 2004, 53, 1034-1046.	2.4	22
21	Universal Computing in Reversible and Number-Conserving Two-Dimensional Cellular Spaces. , 2002, , 161-199.		21
22	Universality of Reversible Hexagonal Cellular Automata. RAIRO - Theoretical Informatics and Applications, 1999, 33, 535-550.	0.5	20
23	CONTEXT-SENSITIVITY OF TWO-DIMENSIONAL REGULAR ARRAY GRAMMARS. International Journal of Pattern Recognition and Artificial Intelligence, 1989, 03, 295-319.	0.7	17
24	PARALLEL GENERATION AND PARSING OF ARRAY LANGUAGES USING REVERSIBLE CELLULAR AUTOMATA. International Journal of Pattern Recognition and Artificial Intelligence, 1994, 08, 543-561.	0.7	14
25	East-West paths to unconventional computing. Progress in Biophysics and Molecular Biology, 2017, 131, 469-493.	1.4	14
26	A Deterministic Two-Way Multi-head Finite Automaton Can Be Converted into a Reversible One with the Same Number of Heads. Lecture Notes in Computer Science, 2013, , 29-43.	1.0	13
27	Simulating reversible Turing machines and cyclic tag systems by one-dimensional reversible cellular automata. Theoretical Computer Science, 2011, 412, 3856-3865.	0.5	12
28	Cellular Automata and Artificial Life. Nonlinear Phenomena and Complex Systems, 2001, , 151-200.	0.0	11
29	A New Universal Logic Element for Reversible Computing. Topics in Computer Mathematics, 2003, , 285-294.	0.0	11
30	A hierarchy of uniquely parsable grammar classes and deterministic acceptors. Acta Informatica, 1997, 34, 389-410.	0.5	10
31	Sequential and maximally parallel multiset rewriting: reversibility and determinism. Natural Computing, 2012, 11, 95-106.	1.8	10
32	Computation with Competing Patterns inÂLife-Like Automaton. , 2010, , 547-572.		9
33	Reversible Cellular Automata. , 2012, , 231-257.		8
34	Design of 1-tape 2-symbol reversible Turing machines based on reversible logic elements. Theoretical Computer Science, 2012, 460, 78-88.	0.5	8
35	A universal non-conservative reversible elementary triangular partitioned cellular automaton that shows complex behavior. Natural Computing, 2019, 18, 413-428.	1.8	8
36	The complexity of some decision problems about two-dimensional array grammars. Information Sciences, 1983, 30, 241-262.	4.0	7

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#	Article	IF	CITATIONS
37	Number-Conserving Reversible Cellular Automata and Their Computation-Universality. RAIRO - Theoretical Informatics and Applications, 2001, 35, 239-258.	0.5	7
38	CONTEXT-SENSITIVITY OF TWO-DIMENSIONAL REGULAR ARRAY GRAMMARS. , 1989, , 17-41.		7
39	Lower Bound of Face Guards of Polyhedral Terrains. Journal of Information Processing, 2012, 20, 435-437.	0.3	6
40	General design of reversible sequential machines based on reversible logic elements. Theoretical Computer Science, 2015, 568, 19-27.	0.5	6
41	Embedding a Logically Universal Model and a Self-Reproducing Model into Number-Conserving Cellular Automata. Lecture Notes in Computer Science, 2002, , 164-175.	1.0	6
42	Logical universality and self-reproduction in reversible cellular automata. Lecture Notes in Computer Science, 1997, , 152-166.	1.0	6
43	Computing by Swarm Networks. Lecture Notes in Computer Science, 2008, , 50-59.	1.0	6
44	On Reversibility and Determinism in P Systems. Lecture Notes in Computer Science, 2010, , 158-168.	1.0	6
45	On time-constructible functions in one-dimensional cellular automata. Lecture Notes in Computer Science, 1999, , 316-326.	1.0	6
46	An 8-State Simple Reversible Triangular Cellular Automaton that Exhibits Complex Behavior. Lecture Notes in Computer Science, 2016, , 170-184.	1.0	6
47	Reversible Computing Systems, Logic Circuits, and Cellular Automata. , 2012, , .		5
48	Universal Reversible Turing Machines with a Small Number of Tape Symbols. Fundamenta Informaticae, 2015, 138, 17-29.	0.3	5
49	Two Small Universal Reversible Turing Machines. Emergence, Complexity and Computation, 2017, , 221-237.	0.2	5
50	CHARACTERIZING THE ABILITY OF PARALLEL ARRAY GENERATORS ON REVERSIBLE PARTITIONED CELLULAR AUTOMATA. International Journal of Pattern Recognition and Artificial Intelligence, 1999, 13, 523-538.	0.7	4
51	On the Non-existance of Rotation-Symmetric von Neumann Neighbor Number-Conserving Cellular Automata of Which the State Number is Less than Four. IEICE Transactions on Information and Systems, 2009, E92-D, 255-257.	0.4	4
52	Computation in reversible cellular automata. International Journal of General Systems, 2012, 41, 569-581.	1.2	4
53	Finding the Minimum Number of Face Guards is NP-Hard. IEICE Transactions on Information and Systems, 2012, E95.D, 2716-2719.	0.4	4

54 Reversible Computing. , 2012, , 2685-2701.

#	Article	IF	CITATIONS
55	Constructing Reversible Turing Machines by Reversible Logic Element with Memory. Emergence, Complexity and Computation, 2015, , 127-138.	0.2	4
56	Parallel generation and parsing of array languages using reversible cellular automata. Lecture Notes in Computer Science, 1992, , 213-230.	1.0	4
57	An efficient reasoning method for syllogism and its application to knowledge processing. Systems and Computers in Japan, 1988, 19, 20-31.	0.2	3
58	TWO-DIMENSIONAL UNIQUELY PARSABLE ISOMETRIC ARRAY GRAMMARS. International Journal of Pattern Recognition and Artificial Intelligence, 1992, 06, 301-313.	0.7	3
59	Uniquely parsable array grammars for generating and parsing connected patterns. Pattern Recognition, 1999, 32, 269-276.	5.1	3
60	Complexity of evolution languages of the elementary cellular automaton of rule 146. Applied Mathematics, 2006, 21, 418-428.	0.6	3
61	A Polynomial-Time Reduction from the 3SAT Problem to the Generalized String Puzzle Problem. Algorithms, 2012, 5, 261-272.	1.2	3
62	Reversibility in space-bounded computation. International Journal of General Systems, 2014, 43, 697-712.	1.2	3
63	Majority Adder Implementation by Competing Patterns in Life-Like Rule B2/S2345. Lecture Notes in Computer Science, 2010, , 93-104.	1.0	3
64	Hierarchies of DLOGTIME-Uniform Circuits. Lecture Notes in Computer Science, 2005, , 211-222.	1.0	3
65	TWO-DIMENSIONAL THREE-WAY ARRAY GRAMMARS AND THEIR ACCEPTORS. International Journal of Pattern Recognition and Artificial Intelligence, 1989, 03, 353-376.	0.7	2
66	Universality of One-Dimensional Reversible and Number-Conserving Cellular Automata. Electronic Proceedings in Theoretical Computer Science, EPTCS, 2012, 90, 142-150.	0.8	2
67	Generalized Chat Noir is PSPACE-Complete. IEICE Transactions on Information and Systems, 2013, E96.D, 502-505.	0.4	2
68	Reversible Cellular Automata. , 2009, , 7679-7695.		2
69	Universality of 2-State 3-Symbol Reversible Logic Elements — A Direct Simulation Method of a Rotary Element. Proceedings in Information and Communications Technology, 2010, , 252-259.	0.2	2
70	Translational Lemmas for Alternating TMs and PRAMs. Lecture Notes in Computer Science, 2005, , 137-148.	1.0	2
71	A Time Hierarchy Theorem for Nondeterministic Cellular Automata. , 2007, , 511-520.		2
72	On two-dimensional pattern-matching languages and their decision problems. Information Sciences, 1986, 40, 53-66.	4.0	1

#	Article	IF	CITATIONS
73	A quadratic speedup theorem for iterative arrays. Acta Informatica, 2002, 38, 847-858.	0.5	1
74	Simulation of one-dimensional cellular automata by uniquely parallel parsable grammars. Theoretical Computer Science, 2003, 304, 185-200.	0.5	1
75	On simulations of self-reproducing cellular automata with shape-encoding mechanism. Electronics and Communications in Japan, Part III: Fundamental Electronic Science (English Translation of Denshi) Tj ETQq1	1 007.8431	.4 rgBT /Over
76	Translational lemmas for DLOGTIME-uniform circuits, alternating TMs, and PRAMs. Acta Informatica, 2007, 44, 345-359.	0.5	1
77	NP-Hard and k-EXPSPACE-Hard Cast Puzzles. IEICE Transactions on Information and Systems, 2010, E93-D, 2995-3004.	0.4	1
78	Universality Issues in Reversible Computing Systems and Cellular Automata (Extended Abstract). Electronic Notes in Theoretical Computer Science, 2010, 253, 23-31.	0.9	1
79	Generalized Shisen-Sho is NP-Complete. IEICE Transactions on Information and Systems, 2012, E95.D, 2712-2715.	0.4	1
80	Logical Gates via Gliders Collisions. Emergence, Complexity and Computation, 2018, , 199-220.	0.2	1
81	GENERATION AND PARSING OF MORPHISM LANGUAGES BY UNIQUELY PARALLEL PARSABLE GRAMMARS. , 2001, , 303-314.		1
82	Reversible Cellular Automata. , 2012, , 2668-2684.		1
83	TWO-DIMENSIONAL UNIQUELY PARSABLE ISOMETRIC ARRAY GRAMMARS. Series in Machine Perception and Artificial Intelligence, 1992, , 91-103.	0.1	1
84	Fredkin gates in simple reversible cellular automata. International Journal of Parallel, Emergent and Distributed Systems, 2022, 37, 249-272.	0.7	1
85	An extended syllogistic system with conjunctive and complementary terms, and its completeness proof. Systems and Computers in Japan, 1989, 20, 80-95.	0.2	0
86	Uniquely Parsable Unification Grammars and Their Parser Implemented in Prolog. Grammars, 2000, 3, 63-81.	0.4	0
87	A Three-Dimensional Uniquely Parsable Array Grammar that Generates and Parses Cubes. Electronic Notes in Theoretical Computer Science, 2001, 46, 339-354.	0.9	0
88	Editorial for special issue on unconventional computation. Natural Computing, 2012, 11, 65-66.	1.8	0
89	An instruction set for reversible Turing machines. Acta Informatica, 2021, 58, 377-396.	0.5	0
90	Reversible Logic Element with Memory as an Alternative Logical Device. , 2021, , 31-57.		0

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#	Article	IF	CITATIONS
91	Speeding-Up Cellular Automata by Alternations. Lecture Notes in Computer Science, 2001, , 240-251.	1.0	О
92	PATTERN GENERATION AND PARSING BY ARRAY GRAMMARS. Series in Machine Perception and Artificial Intelligence, 2006, , 260-273.	0.1	0
93	A Recursive Padding Technique on Nondeterministic Cellular Automata. IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences, 2008, E91-A, 2335-2340.	0.2	Ο
94	Computational Complexity of Cast Puzzles. Lecture Notes in Computer Science, 2009, , 122-131.	1.0	0
95	Reversible Logic Elements with Memory and Their Universality. Electronic Proceedings in Theoretical Computer Science, EPTCS, 0, 128, 3-14.	0.8	0
96	How Can We Construct Reversible Machines Out of Reversible Logic Element with Memory?. Lecture Notes in Computer Science, 2014, , 352-366.	1.0	0
97	On the Two-Dimensional Model of Biological System. Japanese Journal of Applied Physics, 1985, 24, 99.	0.8	0
98	Reversible Cellular Automata. , 2015, , 1-23.		0
99	Reversible Computing. , 2015, , 1-24.		0
100	Reversible Cellular Automata. , 2017, , 1-25.		0
101	Reversible Computing. , 2017, , 1-26.		0
102	Reversible Computing. , 2018, , 463-488.		0
103	Reversible Cellular Automata. , 2018, , 1-25.		0
104	Reversible Cellular Automata. , 2018, , 105-128.		0
105	A Snapshot of My Life. Emergence, Complexity and Computation, 2018, , 1-3.	0.2	0
106	TWO-DIMENSIONAL THREE-WAY ARRAY GRAMMARS AND THEIR ACCEPTORS. , 1989, , 75-98.		0