

Jeffrey Shallit

List of Publications by Year in descending order

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100
papers

1,828
citations

430442

18
h-index

414034

32
g-index

104
all docs

104
docs citations

104
times ranked

456
citing authors

#	ARTICLE	IF	CITATIONS
1	The ring of k -regular sequences. Theoretical Computer Science, 1992, 98, 163-197.	0.5	139
2	UNARY LANGUAGE OPERATIONS, STATE COMPLEXITY AND JACOBSTHAL'S FUNCTION. International Journal of Foundations of Computer Science, 2002, 13, 145-159.	0.8	110
3	The ring of k -regular sequences, II. Theoretical Computer Science, 2003, 307, 3-29.	0.5	85
4	Simple continued fractions for some irrational numbers. Journal of Number Theory, 1979, 11, 209-217.	0.2	56
5	ENUMERATION AND DECIDABLE PROPERTIES OF AUTOMATIC SEQUENCES. International Journal of Foundations of Computer Science, 2012, 23, 1035-1066.	0.8	53
6	What this country needs is an 18c piece. Mathematical Intelligencer, 2003, 25, 20-23.	0.1	46
7	Characterizing regular languages with polynomial densities. Lecture Notes in Computer Science, 1992, , 494-503.	1.0	46
8	A generalization of automatic sequences. Theoretical Computer Science, 1988, 61, 1-16.	0.5	39
9	Periodicity, repetitions, and orbits of an automatic sequence. Theoretical Computer Science, 2009, 410, 2795-2803.	0.5	39
10	Two methods for generating fractals. Computers and Graphics, 1989, 13, 185-191.	1.4	33
11	On NFAs where all states are final, initial, or both. Theoretical Computer Science, 2009, 410, 5010-5021.	0.5	33
12	Avoiding large squares in infinite binary words. Theoretical Computer Science, 2005, 339, 19-34.	0.5	32
13	Critical exponents of infinite balanced words. Theoretical Computer Science, 2019, 777, 454-463.	0.5	23
14	Decision algorithms for Fibonacci-automatic Words, I: Basic results. RAIRO - Theoretical Informatics and Applications, 2016, 50, 39-66.	0.5	22
15	FINDING THE GROWTH RATE OF A REGULAR OR CONTEXT-FREE LANGUAGE IN POLYNOMIAL TIME. International Journal of Foundations of Computer Science, 2010, 21, 597-618.	0.8	21
16	On the maximum number of distinct factors of a binary string. Graphs and Combinatorics, 1993, 9, 197-200.	0.2	19
17	SIMULTANEOUS AVOIDANCE OF LARGE SQUARES AND FRACTIONAL POWERS IN INFINITE BINARY WORDS. International Journal of Foundations of Computer Science, 2004, 15, 317-327.	0.8	19
18	Extremal Infinite Overlap-Free Binary Words. Electronic Journal of Combinatorics, 1998, 5, .	0.2	19

#	ARTICLE	IF	CITATIONS
19	Unbounded Discrepancy in Frobenius Numbers. <i>Integers</i> , 2011, 11, .	0.3	18
20	CLOSURES IN FORMAL LANGUAGES AND KURATOWSKI'S THEOREM. <i>International Journal of Foundations of Computer Science</i> , 2011, 22, 301-321.	0.8	18
21	Decision Algorithms for Fibonacci-Automatic Words, III: Enumeration and Abelian Properties. <i>International Journal of Foundations of Computer Science</i> , 2016, 27, 943-963.	0.8	18
22	Information theory, evolutionary computation, and Dembski's "complex specified information". <i>Synthese</i> , 2011, 178, 237-270.	0.6	17
23	THE CRITICAL EXPONENT IS COMPUTABLE FOR AUTOMATIC SEQUENCES. <i>International Journal of Foundations of Computer Science</i> , 2012, 23, 1611-1626.	0.8	17
24	Palindromic rich words and run-length encodings. <i>Information Processing Letters</i> , 2016, 116, 735-738.	0.4	16
25	Periodicity in rectangular arrays. <i>Information Processing Letters</i> , 2017, 118, 58-63.	0.4	16
26	Detecting palindromes, patterns and borders in regular languages. <i>Information and Computation</i> , 2009, 207, 1096-1118.	0.5	15
27	On the Number of Unbordered Factors. <i>Lecture Notes in Computer Science</i> , 2013, , 299-310.	1.0	15
28	Avoiding Three Consecutive Blocks of the Same Size and Same Sum. <i>Journal of the ACM</i> , 2014, 61, 1-17.	1.8	13
29	Automaticity IV : sequences, sets, and diversity. <i>Journal De Theorie Des Nombres De Bordeaux</i> , 1996, 8, 347-367.	0.0	13
30	Decision problems for convex languages. <i>Information and Computation</i> , 2011, 209, 353-367.	0.5	12
31	Automatic Theorem-Proving in Combinatorics on Words. <i>Lecture Notes in Computer Science</i> , 2012, , 180-191.	1.0	12
32	Kolam indiens, dessins sur le sable aux Îles Vanuatu, courbe de Sierpinski et morphismes de monoïde. <i>Annales De L'Institut Fourier</i> , 2006, 56, 2115-2130.	0.2	12
33	AUTOMATIC THEOREM-PROVING IN COMBINATORICS ON WORDS. <i>International Journal of Foundations of Computer Science</i> , 2013, 24, 781-798.	0.8	11
34	Additive Number Theory via Automata Theory. <i>Theory of Computing Systems</i> , 2020, 64, 542-567.	0.7	11
35	AVOIDING APPROXIMATE SQUARES. <i>International Journal of Foundations of Computer Science</i> , 2008, 19, 633-648.	0.8	10
36	When is an automatic set an additive basis?. <i>Proceedings of the American Mathematical Society, Series B</i> , 2018, 5, 50-63.	0.6	10

#	ARTICLE	IF	CITATIONS
37	On integer sequences whose first iterates are linear. <i>Aequationes Mathematicae</i> , 2005, 69, 114-127.	0.4	9
38	Avoiding squares and overlaps over the natural numbers. <i>Discrete Mathematics</i> , 2009, 309, 6245-6254.	0.4	9
39	Decidability and Enumeration for Automatic Sequences: A Survey. <i>Lecture Notes in Computer Science</i> , 2013, , 49-63.	1.0	9
40	Subword Complexity and k -Synchronization. <i>Lecture Notes in Computer Science</i> , 2013, , 252-263.	1.0	9
41	Inverse star, borders, and palstars. <i>Information Processing Letters</i> , 2011, 111, 420-422.	0.4	8
42	Lengths of words accepted by nondeterministic finite automata. <i>Information Processing Letters</i> , 2020, 162, 105993.	0.4	7
43	Synchronized Sequences. <i>Lecture Notes in Computer Science</i> , 2021, , 1-19.	1.0	7
44	Thue's Morse at multiples of an integer. <i>Journal of Number Theory</i> , 2011, 131, 1498-1512.	0.2	6
45	A VARIANT OF HOFSTADTER'S SEQUENCE AND FINITE AUTOMATA. <i>Journal of the Australian Mathematical Society</i> , 2012, 93, 1-8.	0.3	6
46	Remarks on Privileged Words. <i>International Journal of Foundations of Computer Science</i> , 2016, 27, 431-442.	0.8	6
47	Sumsets of Wythoff sequences, Fibonacci representation, and beyond. <i>Periodica Mathematica Hungarica</i> , 2022, 84, 37-46.	0.5	6
48	NON-UNIQUENESS AND RADIUS OF CYCLIC UNARY NFAs. <i>International Journal of Foundations of Computer Science</i> , 2005, 16, 883-896.	0.8	5
49	Automatic Sets of Rational Numbers. <i>International Journal of Foundations of Computer Science</i> , 2015, 26, 343-365.	0.8	5
50	Abelian-square-rich words. <i>Theoretical Computer Science</i> , 2017, 684, 29-42.	0.5	5
51	Decision algorithms for Fibonacci-automatic words, II: Related sequences and avoidability. <i>Theoretical Computer Science</i> , 2017, 657, 146-162.	0.5	5
52	Ostrowski-automatic sequences: Theory and applications. <i>Theoretical Computer Science</i> , 2021, 858, 122-142.	0.5	5
53	Robbins and Ardila meet Berstel. <i>Information Processing Letters</i> , 2021, 167, 106081.	0.4	5
54	The Critical Exponent is Computable for Automatic Sequences. <i>Electronic Proceedings in Theoretical Computer Science</i> , EPTCS, 0, 63, 231-239.	0.8	5

#	ARTICLE	IF	CITATIONS
55	State complexity of unique rational operations. Theoretical Computer Science, 2009, 410, 2431-2441.	0.5	4
56	Hamming distance for conjugates. Discrete Mathematics, 2009, 309, 4197-4199.	0.4	4
57	Detecting patterns in finite regular and context-free languages. Information Processing Letters, 2010, 110, 108-112.	0.4	4
58	Additive Number Theory via Approximation by Regular Languages. Lecture Notes in Computer Science, 2018, , 121-132.	1.0	4
59	Circular critical exponents for Thue's Morse factors. RAIRO - Theoretical Informatics and Applications, 2019, 53, 37-49.	0.5	4
60	Subword complexity of the Fibonacci-Thue-Morse sequence: The proof of Dekking's conjecture. Indagationes Mathematicae, 2021, 32, 729-735.	0.2	4
61	Critical Exponent of Infinite Balanced Words via the Pell Number System. Lecture Notes in Computer Science, 2019, , 80-92.	1.0	4
62	Primitive Words and Lyndon Words in Automatic and Linearly Recurrent Sequences. Lecture Notes in Computer Science, 2013, , 311-322.	1.0	4
63	Queens in Exile: Non-attacking Queens on Infinite Chess Boards. Electronic Journal of Combinatorics, 2020, 27, .	0.2	4
64	Enumeration and Decidable Properties of Automatic Sequences. Lecture Notes in Computer Science, 2011, , 165-179.	1.0	4
65	A pattern sequence approach to Stern's sequence. Discrete Mathematics, 2011, 311, 2630-2633.	0.4	3
66	Avoiding $3/2$ -powers over the natural numbers. Discrete Mathematics, 2012, 312, 1282-1288.	0.4	3
67	Composition and orbits of language operations: finiteness and upper bounds. International Journal of Computer Mathematics, 2013, 90, 1171-1196.	1.0	3
68	Sum-free sets generated by the period- k -folding sequences and some Sturmian sequences. Discrete Mathematics, 2020, 343, 111958.	0.4	3
69	A Frameless 2-Coloring of the Plane Lattice. Mathematics Magazine, 0, , 1-8.	0.1	3
70	Decidability and k -regular sequences. Theoretical Computer Science, 2022, 907, 34-44.	0.5	3
71	Lie complexity of words. Theoretical Computer Science, 2022, 927, 98-108.	0.5	3
72	Pattern spectra, substring enumeration, and automatic sequences. Theoretical Computer Science, 1992, 94, 161-174.	0.5	2

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73	Mini-Workshop: Combinatorics on Words. Oberwolfach Reports, 2011, 7, 2195-2244.	0.0	2
74	Van der Waerden's Theorem and Avoidability in Words. Integers, 2011, 11, .	0.3	2
75	Optimal Bounds for the Similarity Density of the Thue-Morse Word with Overlap-Free and 73-Power-Free Infinite Binary Words. International Journal of Foundations of Computer Science, 2015, 26, 1147-1165.	0.8	2
76	Minimal Elements for the Prime Numbers. Experimental Mathematics, 2016, 25, 321-331.	0.5	2
77	Waring's Theorem for Binary Powers. Combinatorica, 2019, 39, 1335-1350.	0.6	2
78	The number of valid factorizations of Fibonacci prefixes. Theoretical Computer Science, 2019, 775, 68-75.	0.5	2
79	Natural exact covering systems and the reversion of the M�bius series. Ramanujan Journal, 2019, 50, 211-235.	0.4	2
80	Avoidance of split overlaps. Discrete Mathematics, 2021, 344, 112176.	0.4	2
81	Finite Orbits of Language Operations. Lecture Notes in Computer Science, 2011, , 204-215.	1.0	2
82	Cobham's Theorem and Automaticity. International Journal of Foundations of Computer Science, 2019, 30, 1363-1379.	0.8	2
83	Fife's Theorem for (7/3)-Powers. Electronic Proceedings in Theoretical Computer Science, EPTCS, 0, 63, 189-198.	0.8	2
84	Mechanical Proofs of Properties of the Tribonacci Word. Lecture Notes in Computer Science, 2015, , 170-190.	1.0	2
85	Repetitions in Infinite Palindrome-Rich Words. Lecture Notes in Computer Science, 2019, , 93-105.	1.0	2
86	Additive Number Theory via Approximation by Regular Languages. International Journal of Foundations of Computer Science, 2020, 31, 667-687.	0.8	2
87	Counting Sequences with Small Discrepancies. Experimental Mathematics, 2013, 22, 74-84.	0.5	1
88	Notes and note pairs in Nagell's infinity series. Journal of Mathematics and Music, 2017, 11, 1-19.	0.3	1
89	Counting Subwords and Regular Languages. Lecture Notes in Computer Science, 2018, , 231-242.	1.0	1
90	The Generalized Nagell-Ljunggren Problem: Powers with Repetitive Representations. Experimental Mathematics, 2019, 28, 428-439.	0.5	1

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91	Borders, palindrome prefixes, and square prefixes. Information Processing Letters, 2021, 165, 106027.	0.4	1
92	Sumsets associated with Beatty sequences. Discrete Mathematics, 2022, 345, 112810.	0.4	1
93	Properties of a class of Toeplitz words. Theoretical Computer Science, 2022, 922, 1-12.	0.5	1
94	Computational aspects of sturdy and flimsy numbers. Theoretical Computer Science, 2022, 927, 65-86.	0.5	1
95	<i>Handbook of Applied Cryptography.</i>By Alfred J. Menezes, Paul C. van Oorschot, and Scott A. Vanstone,<i>The Cryptographic Imagination: Secret Writing from Edgar Poe to the Internet.</i>By Shawn James Rosenheim. American Mathematical Monthly, 1999, 106, 85-88.	0.2	0
96	New bounds on antipowers in words. Information Processing Letters, 2020, 164, 106021.	0.4	0
97	The simplest binary word with only three squares. RAIRO - Theoretical Informatics and Applications, 2021, 55, 3.	0.5	0
98	The largest entry in the inverse of a Vandermonde matrix. Linear and Multilinear Algebra, 0, , 1-8.	0.5	0
99	An Inequality for the Number of Periods in a Word. International Journal of Foundations of Computer Science, 2021, 32, 597-614.	0.8	0
100	Automatic sequences of rank two. RAIRO - Theoretical Informatics and Applications, 2022, 56, 7.	0.5	0