Wojciech Rytter

List of Publications by Year
in descending order

114 papers	2,305 citations	304368 22 h-index	264894 42 g-index
120 all docs	120 docs citations	120 times ranked	586 citing authors

#	Article	IF	Citations
1	Application of Lempel–Ziv factorization to the approximation of grammar-based compression. Theoretical Computer Science, 2003, 302, 211-222.	0.5	222
2	Speeding up two string-matching algorithms. Algorithmica, 1994, 12, 247-267.	1.0	162
3	Deterministic broadcasting in ad hoc radio networks. Distributed Computing, 2002, 15, 27-38.	0.7	145
4	Fast broadcasting and gossiping in radio networks. Journal of Algorithms, 2002, 43, 177-189.	0.9	135
5	Squares, cubes, and time-space efficient string searching. Algorithmica, 1995, 13, 405-425.	1.0	120
6	Broadcasting algorithms in radio networks with unknown topology. Journal of Algorithms, 2006, 60, 115-143.	0.9	83
7	A linear time algorithm for consecutive permutation pattern matching. Information Processing Letters, 2013, 113, 430-433.	0.4	63
8	Efficient algorithms for Lempel-Ziv encoding. Lecture Notes in Computer Science, 1996, , 392-403.	1.0	59
9	Repetitions in strings: Algorithms and combinatorics. Theoretical Computer Science, 2009, 410, 5227-5235.	0.5	56
10	Fast practical multi-pattern matching. Information Processing Letters, 1999, 71, 107-113.	0.4	52
11	Efficient parallel algorithms to test square-freeness and factorize strings. Information Processing Letters, 1991, 38, 57-60.	0.4	48
12	A Correct Preprocessing Algorithm for Boyer–Moore String-Searching. SIAM Journal on Computing, 1980, 9, 509-512.	0.8	46
13	Extracting powers and periods in a word from its runs structure. Theoretical Computer Science, 2014, 521, 29-41.	0.5	44
14	The number of runs in a string. Information and Computation, 2007, 205, 1459-1469.	0.5	39
15	Optimal parallel algorithms for dynamic expression evaluation and context-free recognition. Information and Computation, 1989, 81, 32-45.	0.5	34
16	Fast recognition of pushdown automaton and context-free languages. Information and Control, 1985, 67, 12-22.	1.3	31
17	Grammar Compression, LZ-Encodings, and String Algorithms with Implicit Input. Lecture Notes in Computer Science, 2004, , 15-27.	1.0	31
18	Pattern-matching for strings with short descriptions. Lecture Notes in Computer Science, 1995, , 205-214.	1.0	28

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19	On the Complexity of Pattern Matching for Highly Compressed Two-Dimensional Texts. Journal of Computer and System Sciences, 2002, 65, 332-350.	0.9	27
20	Extracting Powers and Periods in a String from Its Runs Structure. Lecture Notes in Computer Science, 2010, , 258-269.	1.0	26
21	Parallel time O(log n) recognition of unambiguous context-free languages. Information and Computation, 1987, 73, 75-86.	0.5	24
22	A FIRST APPROACH TO FINDING COMMON MOTIFS WITH GAPS. International Journal of Foundations of Computer Science, 2005, 16, 1145-1154.	0.8	23
23	Efficient algorithms for three variants of the LPF table. Journal of Discrete Algorithms, 2012, 11, 51-61.	0.7	23
24	On maximal suffixes and constant-space linear-time versions of KMP algorithm. Theoretical Computer Science, 2003, 299, 763-774.	0.5	22
25	Computing the Longest Previous Factor. European Journal of Combinatorics, 2013, 34, 15-26.	0.5	21
26	Optimal Prefix-Free Codes for Unequal Letter Costs: Dynamic Programming with the Monge Property. Journal of Algorithms, 2002, 42, 277-303.	0.9	20
27	The structure of subword graphs and suffix trees of Fibonacci words. Theoretical Computer Science, 2006, 363, 211-223.	0.5	20
28	A note on efficient computation of all Abelian periods in a string. Information Processing Letters, 2013, 113, 74-77.	0.4	20
29	Internal Pattern Matching Queries in a Text and Applications. , 2015, , .		20
30	LINEAR-TIME PRIME DECOMPOSITION OF REGULAR PREFIX CODES. International Journal of Foundations of Computer Science, 2003, 14, 1019-1031.	0.8	18
31	A randomized algorithm for gossiping in radio networks. Networks, 2004, 43, 119-124.	1.6	18
32	On the complexity of pattern matching for highly compressed two-dimensional texts. Lecture Notes in Computer Science, 1997, , 40-51.	1.0	16
33	Fast Algorithm for Partial Covers in Words. Algorithmica, 2015, 73, 217-233.	1.0	15
34	Order-preserving indexing. Theoretical Computer Science, 2016, 638, 122-135.	0.5	15
35	Unique Decipherability for Partially Commutative Alphabets. Fundamenta Informaticae, 1987, 10, 323-336.	0.3	15
36	On the maximal sum of exponents of runs in a string. Journal of Discrete Algorithms, 2012, 14, 29-36.	0.7	14

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37	An application of Mehlhorn's algorithm for bracket languages to log(n) space recognition of input-driven languages. Information Processing Letters, 1986, 23, 81-84.	0.4	13
38	A Constant Time Optimal Parallel Algorithm for Two-Dimensional Pattern Matching. SIAM Journal on Computing, 1998, 27, 668-681.	0.8	13
39	Compressed and fully compressed pattern matching in one and two dimensions. Proceedings of the IEEE, 2000, 88, 1769-1778.	16.4	12
40	The maximal number of cubic runs in a word. Journal of Computer and System Sciences, 2012, 78, 1828-1836.	0.9	12
41	Polynomial Size Test Sets For Context-Free Languages. Journal of Computer and System Sciences, 1995, 50, 11-19.	0.9	11
42	Constant-Time Randomized Parallel String Matching. SIAM Journal on Computing, 1997, 26, 950-960.	0.8	11
43	A Linear Time Algorithm for Seeds Computation. , 2012, , .		11
44	A Linear-Time Algorithm for Seeds Computation. ACM Transactions on Algorithms, 2020, 16, 1-23.	0.9	11
45	Parallel O(log n) time edge-colouring of trees and Halin graphs. Information Processing Letters, 1988, 27, 43-51.	0.4	10
46	A note on optimal parallel transformations of regular expressions to nondeterministic finite automata. Information Processing Letters, 1989, 31, 103-109.	0.4	10
47	Sequential and Parallel Approximation of Shortest Superstrings. Journal of Algorithms, 1997, 23, 74-100.	0.9	10
48	Observations on log (n) time parallel recognition of unambiguous cfl's. Information Processing Letters, 1992, 44, 267-272.	0.4	9
49	USEFULNESS OF DIRECTED ACYCLIC SUBWORD GRAPHS IN PROBLEMS RELATED TO STANDARD STURMIAN WORDS. International Journal of Foundations of Computer Science, 2009, 20, 1005-1023.	0.8	9
50	On the maximum number of cubic subwords in a word. European Journal of Combinatorics, 2013, 34, 27-37.	0.5	9
51	Efficient counting of square substrings in a tree. Theoretical Computer Science, 2014, 544, 60-73.	0.5	9
52	A note on two-way nondeterministic pushdown automata. Information Processing Letters, 1982, 15, 5-9.	0.4	8
53	Time complexity of loop-free two-way pushdown automata. Information Processing Letters, 1983, 16, 127-129.	0.4	8
54	On efficient parallel computations of costs of paths on a grid graph. Information Processing Letters, 1988, 29, 71-74.	0.4	8

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55	On special families of morphisms related to Î-matching and don't care symbols. Information Processing Letters, 2003, 85, 227-233.	0.4	8
56	Efficient seed computation revisited. Theoretical Computer Science, 2013, 483, 171-181.	0.5	8
57	Efficient algorithms for shortest partial seeds in words. Theoretical Computer Science, 2018, 710, 139-147.	0.5	8
58	Application of Lempel-Ziv Factorization to the Approximation of Grammar-Based Compression. Lecture Notes in Computer Science, 2002, , 20-31.	1.0	8
59	The space complexity of the unique decipherability problem. Information Processing Letters, 1986, 23, 1-3.	0.4	7
60	Prime normal form and equivalence of simple grammars. Theoretical Computer Science, 2006, 363, 124-134.	0.5	7
61	Compressed string-matching in standard Sturmian words. Theoretical Computer Science, 2009, 410, 2804-2810.	0.5	7
62	New simple efficient algorithms computing powers and runs in strings. Discrete Applied Mathematics, 2014, 163, 258-267.	0.5	7
63	Polynomial-time approximation algorithms for weighted LCS problem. Discrete Applied Mathematics, 2016, 204, 38-48.	0.5	7
64	Efficient Indexes for Jumbled Pattern Matching with Constant-Sized Alphabet. Algorithmica, 2017, 77, 1194-1215.	1.0	7
65	Fast algorithms for Abelian periods in words and greatest common divisor queries. Journal of Computer and System Sciences, 2017, 84, 205-218.	0.9	7
66	Covering problems for partial words and for indeterminate strings. Theoretical Computer Science, 2017, 698, 25-39.	0.5	7
67	Some Properties of Trace Languages. Fundamenta Informaticae, 1984, 7, 117-127.	0.3	7
68	The dynamic simulation of recursive and stack manipulating programs. Information Processing Letters, 1981, 13, 58-63.	0.4	6
69	Remarks on string-matching and one-way multihead automata. Information Processing Letters, 1987, 24, 325-329.	0.4	6
70	String Powers in Trees. Algorithmica, 2017, 79, 814-834.	1.0	6
71	Tight Bound for the Number of Distinct Palindromes in a Tree. Lecture Notes in Computer Science, 2015, , 270-276.	1.0	6
72	Efficient Representation and Counting of Antipower Factors in Words. Lecture Notes in Computer Science, 2019, , 421-433.	1.0	6

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73	An effective simulation of deterministic pushdown automata with many two-way and one-way heads. Information Processing Letters, 1981, 12, 234-236.	0.4	5
74	Parallel construction of minimal suffix and factor automata. Information Processing Letters, 1990, 35, 121-128.	0.4	5
75	Two-dimensional pattern matching by sampling. Information Processing Letters, 1993, 46, 159-162.	0.4	5
76	The complexity of compressing subsegments of images described by finite automata. Discrete Applied Mathematics, 2003, 125, 235-254.	0.5	5
77	On the structure of compacted subword graphs of Thueâ€"Morse words and their applications. Journal of Discrete Algorithms, 2012, 11, 15-24.	0.7	5
78	Efficient Ranking of Lyndon Words and Decoding Lexicographically Minimal de Bruijn Sequence. SIAM Journal on Discrete Mathematics, 2016, 30, 2027-2046.	0.4	5
79	Prime Normal Form and Equivalence of Simple Grammars. Lecture Notes in Computer Science, 2006, , 78-89.	1.0	5
80	The dimension of stability of stochastic automata. Information and Control, 1974, 24, 201-211.	1.3	4
81	Time complexity of unambiguous path systems. Information Processing Letters, 1982, 15, 102-104.	0.4	4
82	A simulation result for two-way pushdown automata. Information Processing Letters, 1983, 16, 199-202.	0.4	4
83	Searching for Zimin patterns. Theoretical Computer Science, 2015, 571, 50-57.	0.5	4
84	An optimal sublinear time parallel algorithm for some dynamic programming problems. Information Processing Letters, 1994, 52, 31-34.	0.4	3
85	ASYMPTOTIC BEHAVIOUR OF THE MAXIMAL NUMBER OF SQUARES IN STANDARD STURMIAN WORDS. International Journal of Foundations of Computer Science, 2012, 23, 303-321.	0.8	3
86	A note on the longest common compatible prefix problem for partial words. Journal of Discrete Algorithms, 2015, 34, 49-53.	0.7	3
87	On the greedy algorithm for the Shortest Common Superstring problem with reversals. Information Processing Letters, 2016, 116, 245-251.	0.4	3
88	Internal Dictionary Matching. Algorithmica, 2021, 83, 2142-2169.	1.0	3
89	The Compression of Subsegments of Images Described by Finite Automata. Lecture Notes in Computer Science, 1999, , 186-195.	1.0	3
90	On the Maximal Number of Cubic Runs in a String. Lecture Notes in Computer Science, 2010, , 227-238.	1.0	3

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91	Time complexity of languages recognized by one-way multihead pushdown automata. Information Processing Letters, 1981, 13, 142-144.	0.4	2
92	On the complexity of the recognition of parallel 2D-image languages. Information Processing Letters, 1991, 38, 225-229.	0.4	2
93	Circular Pattern Matching with k Mismatches. Lecture Notes in Computer Science, 2019, , 213-228.	1.0	2
94	Parallel algorithms for a class of graphs generated recursively. Information Processing Letters, 1989, 30, 225-231.	0.4	1
95	A simple randomized parallel algorithm for maximal Æ'-matchings. Information Processing Letters, 1996, 57, 83-87.	0.4	1
96	Parallel tree-contraction and Fibonacci numbers. Information Processing Letters, 1996, 59, 267-271.	0.4	1
97	A note on a simple computation of the maximal suffix of a string. Journal of Discrete Algorithms, 2013, 20, 61-64.	0.7	1
98	Efficient Enumeration of Non-Equivalent Squares in Partial Words with Few Holes. Lecture Notes in Computer Science, 2017, , 99-111.	1.0	1
99	On semi-perfect de Bruijn words. Theoretical Computer Science, 2018, 720, 55-63.	0.5	1
100	String periods in the order-preserving model. Information and Computation, 2020, 270, 104463.	0.5	1
101	String Covers of a Tree. Lecture Notes in Computer Science, 2021, , 68-82.	1.0	1
102	Shortest covers of all cyclic shifts of a string. Theoretical Computer Science, 2021, 866, 70-81.	0.5	1
103	Shortest Covers of All Cyclic Shifts of a String. Lecture Notes in Computer Science, 2020, , 69-80.	1.0	1
104	On linear context-free languages and one-way multihead automata. Information Processing Letters, 1984, 19, 163-166.	0.4	0
105	Improved methods for extracting frequent itemsets from interim-support trees. Software - Practice and Experience, 2009, 39, 551-571.	2.5	0
106	Computing the number of cubic runs in standard Sturmian words. Discrete Applied Mathematics, 2014, 163, 361-372.	0.5	0
107	Efficient enumeration of non-equivalent squares in partial words with few holes. Journal of Combinatorial Optimization, 2019, 37, 501-522.	0.8	0
108	Circular pattern matching with k mismatches. Journal of Computer and System Sciences, 2021, 115, 73-85.	0.9	0

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109	Functional automata. Fundamenta Informaticae, 1980, 3, 37-44.	0.3	0
110	Faster Recovery of Approximate Periods over Edit Distance. Lecture Notes in Computer Science, 2018, , 233-240.	1.0	0
111	Weighted Shortest Common Supersequence Problem Revisited. Lecture Notes in Computer Science, 2019, , 221-238.	1.0	0
112	Syntactic View of Sigma-Tau Generation of Permutations. Lecture Notes in Computer Science, 2019, , 447-459.	1.0	0
113	Efficient Enumeration of Distinct Factors Using Package Representations. Lecture Notes in Computer Science, 2020, , 247-261.	1.0	0
114	Internal Quasiperiod Queries. Lecture Notes in Computer Science, 2020, , 60-75.	1.0	0