

Amihood Amir

List of Publications by Year in descending order

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126
papers

2,179
citations

218677

26
h-index

276875

41
g-index

127
all docs

127
docs citations

127
times ranked

526
citing authors

#	ARTICLE	IF	CITATIONS
1	Let Sleeping Files Lie: Pattern Matching in Z-Compressed Files. Journal of Computer and System Sciences, 1996, 52, 299-307.	1.2	136
2	Faster algorithms for string matching with k mismatches. Journal of Algorithms, 2004, 50, 257-275.	0.9	121
3	Alphabet dependence in parameterized matching. Information Processing Letters, 1994, 49, 111-115.	0.6	96
4	Maximum Agreement Subtree in a Set of Evolutionary Trees: Metrics and Efficient Algorithms. SIAM Journal on Computing, 1997, 26, 1656-1669.	1.0	95
5	An Alphabet Independent Approach to Two-Dimensional Pattern Matching. SIAM Journal on Computing, 1994, 23, 313-323.	1.0	77
6	Fast parallel and serial multidimensional approximate array matching. Theoretical Computer Science, 1991, 81, 97-115.	0.9	71
7	Dynamic dictionary matching. Journal of Computer and System Sciences, 1994, 49, 208-222.	1.2	70
8	Efficient pattern matching with scaling. Journal of Algorithms, 1992, 13, 2-32.	0.9	63
9	Text Indexing and Dictionary Matching with One Error. Journal of Algorithms, 2000, 37, 309-325.	0.9	59
10	Pattern Matching with Swaps. Journal of Algorithms, 2000, 37, 247-266.	0.9	56
11	Polynomial terse sets. Information and Computation, 1988, 77, 37-56.	0.7	55
12	Overlap matching. Information and Computation, 2003, 181, 57-74.	0.7	54
13	Two-Dimensional Periodicity in Rectangular Arrays. SIAM Journal on Computing, 1998, 27, 90-106.	1.0	51
14	Efficient text fingerprinting via Parikh mapping. Journal of Discrete Algorithms, 2003, 1, 409-421.	0.7	42
15	Pattern Matching in Hypertext. Journal of Algorithms, 2000, 35, 82-99.	0.9	41
16	Alphabet independent two dimensional matching. , 1992, , .		39
17	Two-dimensional dictionary matching. Information Processing Letters, 1992, 44, 233-239.	0.6	39
18	Approximate swapped matching. Information Processing Letters, 2002, 83, 33-39.	0.6	39

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19	Dynamic text and static pattern matching. ACM Transactions on Algorithms, 2007, 3, 19.	1.0	36
20	Real scaled matching. Information Processing Letters, 1999, 70, 185-190.	0.6	33
21	Two-dimensional pattern matching with rotations. Theoretical Computer Science, 2004, 314, 173-187.	0.9	33
22	Property matching and weighted matching. Theoretical Computer Science, 2008, 395, 298-310.	0.9	33
23	Maximal Association Rules: A Tool for Mining Associations in Text. Journal of Intelligent Information Systems, 2005, 25, 333-345.	3.9	31
24	On Hardness of Jumbled Indexing. Lecture Notes in Computer Science, 2014, , 114-125.	1.3	30
25	Function Matching: Algorithms, Applications, and a Lower Bound. Lecture Notes in Computer Science, 2003, , 929-942.	1.3	29
26	Efficient special cases of Pattern Matching with Swaps. Information Processing Letters, 1998, 68, 125-132.	0.6	28
27	Generalized function matching. Journal of Discrete Algorithms, 2007, 5, 514-523.	0.7	26
28	Faster two-dimensional pattern matching with rotations. Theoretical Computer Science, 2006, 368, 196-204.	0.9	23
29	Optimal Two-Dimensional Compressed Matching. Journal of Algorithms, 1997, 24, 354-379.	0.9	22
30	Pattern matching with address errors: Rearrangement distances. Journal of Computer and System Sciences, 2009, 75, 359-370.	1.2	22
31	Swap and mismatch edit distance. Algorithmica, 2006, 45, 109-120.	1.3	21
32	Alphabet-Independent and Scaled Dictionary Matching. Journal of Algorithms, 2000, 36, 34-62.	0.9	20
33	Faster Two Dimensional Pattern Matching with Rotations. Lecture Notes in Computer Science, 2004, , 409-419.	1.3	20
34	Optimal parallel two dimensional pattern matching. , 1993, , .		18
35	Inplace run-length 2d compressed search. Theoretical Computer Science, 2003, 290, 1361-1383.	0.9	18
36	Approximate Matching in the L 1 Metric. Lecture Notes in Computer Science, 2005, , 91-103.	1.3	18

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37	Function Matching. SIAM Journal on Computing, 2006, 35, 1007-1022.	1.0	18
38	Real Two Dimensional Scaled Matching. Algorithmica, 2009, 53, 314-336.	1.3	18
39	Weighted LCS. Journal of Discrete Algorithms, 2010, 8, 273-281.	0.7	18
40	Alphabet independent and dictionary scaled matching. Lecture Notes in Computer Science, 1996, , 320-334.	1.3	15
41	Optimal Parallel Two Dimensional Text Searching on a CREW PRAM. Information and Computation, 1998, 144, 1-17.	0.7	14
42	Approximate Matching in Weighted Sequences. Lecture Notes in Computer Science, 2006, , 365-376.	1.3	14
43	Faster Two Dimensional Scaled Matching. Algorithmica, 2010, 56, 214-234.	1.3	13
44	Managing Unbounded-Length Keys in Comparison-Driven Data Structures with Applications to Online Indexing. SIAM Journal on Computing, 2014, 43, 1396-1416.	1.0	13
45	Indexing and Dictionary Matching with One Error (Extended Abstract). Lecture Notes in Computer Science, 1999, , 181-192.	1.3	13
46	Inplace 2D matching in compressed images. Journal of Algorithms, 2003, 49, 240-261.	0.9	12
47	Generalized LCS. Theoretical Computer Science, 2008, 409, 438-449.	0.9	12
48	On the hardness of the Consensus String problem. Information Processing Letters, 2013, 113, 371-374.	0.6	12
49	Range LCP. Journal of Computer and System Sciences, 2014, 80, 1245-1253.	1.2	12
50	Dynamic and Internal Longest Common Substring. Algorithmica, 2020, 82, 3707-3743.	1.3	12
51	Approximate String Matching with Address Bit Errors. , 2008, , 118-129.		12
52	Faster Two Dimensional Scaled Matching. Lecture Notes in Computer Science, 2006, , 200-210.	1.3	12
53	A rapid method for detection of putative RNAi target genes in genomic data. Bioinformatics, 2003, 19, ii73-ii80.	4.1	11
54	Real Two Dimensional Scaled Matching. Lecture Notes in Computer Science, 2003, , 353-364.	1.3	11

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55	Cycle detection and correction. ACM Transactions on Algorithms, 2012, 9, 1-20.	1.0	10
56	Property Matching and Weighted Matching. Lecture Notes in Computer Science, 2006, , 188-199.	1.3	10
57	Pattern matching in hypertext. Lecture Notes in Computer Science, 1997, , 160-173.	1.3	10
58	Approximate Periodicity. Lecture Notes in Computer Science, 2010, , 25-36.	1.3	9
59	On the Cost of Interchange Rearrangement in Strings. SIAM Journal on Computing, 2010, 39, 1444-1461.	1.0	9
60	On Representations of Ternary Order Relations in Numeric Strings. Mathematics in Computer Science, 2017, 11, 127-136.	0.4	9
61	Efficient Computations of \hat{d}_1 and \hat{d}_2 Rearrangement Distances. Lecture Notes in Computer Science, 2007, , 39-49.	1.3	9
62	Consensus Optimizing Both Distance Sum and Radius. Lecture Notes in Computer Science, 2009, , 234-242.	1.3	9
63	Mind the Gap!. Algorithmica, 2019, 81, 2123-2157.	1.3	8
64	Two-Dimensional Pattern Matching with Rotations. Lecture Notes in Computer Science, 2003, , 17-31.	1.3	8
65	Some connections between bounded query classes and non-uniform complexity. Information and Computation, 2003, 186, 104-139.	0.7	7
66	Efficient one-dimensional real scaled matching. Journal of Discrete Algorithms, 2007, 5, 205-211.	0.7	7
67	Dictionary Matching with One Gap. Lecture Notes in Computer Science, 2014, , 11-20.	1.3	7
68	Generalized LCS. , 2007, , 50-61.		7
69	Efficient matching of nonrectangular shapes. Annals of Mathematics and Artificial Intelligence, 1991, 4, 211-224.	1.3	6
70	Efficient computations of \hat{d}_1 and \hat{d}_2 Rearrangement Distances. Lecture Notes in Computer Science, 2007, , 39-49.	0.9	6
71	Approximate string matching with address bit errors. Theoretical Computer Science, 2009, 410, 5334-5346.	0.9	6
72	Dictionary matching with a few gaps. Theoretical Computer Science, 2015, 589, 34-46.	0.9	6

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73	Can We Recover the Cover?. <i>Algorithmica</i> , 2019, 81, 2857-2875.	1.3	6
74	Longest Common Factor After One Edit Operation. <i>Lecture Notes in Computer Science</i> , 2017, , 14-26.	1.3	6
75	Swap and Mismatch Edit Distance. <i>Lecture Notes in Computer Science</i> , 2004, , 16-27.	1.3	6
76	String Rearrangement Metrics: A Survey. <i>Lecture Notes in Computer Science</i> , 2010, , 1-33.	1.3	6
77	Approximations and Partial Solutions for the Consensus Sequence Problem. <i>Lecture Notes in Computer Science</i> , 2011, , 168-173.	1.3	6
78	Parameterized matching on non-linear structures. <i>Information Processing Letters</i> , 2009, 109, 864-867.	0.6	5
79	On the relationship between histogram indexing and block-mass indexing. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2014, 372, 20130132.	3.4	5
80	Configurations and Minority in the String Consensus Problem. <i>Lecture Notes in Computer Science</i> , 2012, , 42-53.	1.3	5
81	An efficient algorithm for generalized random sampling. <i>Pattern Recognition Letters</i> , 1991, 12, 683-686.	4.2	4
82	Efficient One Dimensional Real Scaled Matching. <i>Lecture Notes in Computer Science</i> , 2004, , 1-9.	1.3	4
83	THEORETICAL ISSUES OF SEARCHING AERIAL PHOTOGRAPHS: A BIRD'S EYE VIEW. <i>International Journal of Foundations of Computer Science</i> , 2005, 16, 1075-1097.	1.1	4
84	Approximate periodicity. <i>Information and Computation</i> , 2015, 241, 215-226.	0.7	4
85	Range LCP Queries Revisited. <i>Lecture Notes in Computer Science</i> , 2015, , 350-361.	1.3	4
86	Polynomial computations in non-deterministic loop-programs and PL-programs. <i>International Journal of Computer Mathematics</i> , 1983, 14, 209-221.	1.8	3
87	A syntactical definition of the problem. <i>International Journal of Computer Mathematics</i> , 1985, 17, 217-228.	1.8	3
88	The submatrices character count problem: an efficient solution using separable values. <i>Information and Computation</i> , 2004, 190, 100-116.	0.7	3
89	Closest Periodic Vectors in L_p Spaces. <i>Lecture Notes in Computer Science</i> , 2011, , 714-723.	1.3	3
90	Asynchronous Pattern Matching. <i>Lecture Notes in Computer Science</i> , 2006, , 1-10.	1.3	3

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91	Hypertext Searching - A Survey. Lecture Notes in Computer Science, 2014, , 364-381.	1.3	3
92	A pearl diver deals a poker hand. International Journal of Computer Mathematics, 1993, 48, 11-14.	1.8	2
93	Cycle Detection and Correction. Lecture Notes in Computer Science, 2010, , 43-54.	1.3	2
94	Approximate string matching with stuck address bits. Theoretical Computer Science, 2011, 412, 3537-3544.	0.9	2
95	Approximate Period Detection and Correction. Lecture Notes in Computer Science, 2012, , 1-15.	1.3	2
96	Period Recovery over the Hamming and Edit Distances. Lecture Notes in Computer Science, 2016, , 55-67.	1.3	2
97	Finding patterns and periods in Cartesian tree matching. Theoretical Computer Science, 2020, 845, 181-197.	0.9	2
98	Fast Parallel and Serial Multidimensional Approximate Array Matching. , 1990, , 3-24.		2
99	Towards a Theory of Patches. Lecture Notes in Computer Science, 2009, , 254-265.	1.3	2
100	Pattern Matching with Non Overlapping Reversals - Approximation and On-line Algorithms. Lecture Notes in Computer Science, 2013, , 55-65.	1.3	2
101	Online recognition of dictionary with one gap. Information and Computation, 2020, 275, 104633.	0.7	2
102	Generalized Function Matching. Lecture Notes in Computer Science, 2004, , 41-52.	1.3	2
103	A direct linear-time planarity test for unflippable modules. International Journal of Computer Mathematics, 1987, 21, 277-290.	1.8	1
104	Towards a theory of patches. Journal of Discrete Algorithms, 2012, 12, 61-73.	0.7	1
105	A PTAS for the Square Tiling Problem. Theoretical Computer Science, 2015, 562, 33-45.	0.9	1
106	Configurations and Minority in the String Consensus Problem. Algorithmica, 2016, 74, 1267-1292.	1.3	1
107	Towards a real time algorithm for parameterized longest common prefix computation. Theoretical Computer Science, 2021, 852, 132-137.	0.9	1
108	Approximate Swapped Matching. Lecture Notes in Computer Science, 2000, , 302-311.	1.3	1

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109	Approximate String Matching with Stuck Address Bits. Lecture Notes in Computer Science, 2010, , 395-405.	1.3	1
110	Weighted Shortest Common Supersequence. Lecture Notes in Computer Science, 2011, , 44-54.	1.3	1
111	Approximate On-line Palindrome Recognition, and Applications. Lecture Notes in Computer Science, 2014, , 21-29.	1.3	1
112	Adaptive Exact Learning in a Mixed-Up World: Dealing with Periodicity, Errors and Jumbled-Index Queries in String Reconstruction. Lecture Notes in Computer Science, 2020, , 155-174.	1.3	1
113	Multidimensional Period Recovery. Algorithmica, 2022, 84, 1490-1510.	1.3	1
114	An improved deterministic algorithm for generating different many-element random samples. Information Processing Letters, 1997, 62, 95-101.	0.6	0
115	A PTAS for the Square Tiling Problem. Lecture Notes in Computer Science, 2010, , 118-126.	1.3	0
116	Closest periodic vectors in L_p spaces. Theoretical Computer Science, 2014, 533, 26-36.	0.9	0
117	EDoP Distance Between Sets of Incomplete Permutations: Application to Bacteria Classification Based on Gene Order. Journal of Computational Biology, 2018, 25, 1193-1202.	1.6	0
118	Multidimensional Compressed Pattern Matching. , 2008, , 556-559.		0
119	Two-Dimensional Scaled Pattern Matching. , 2008, , 982-985.		0
120	The Syntax of Parallelism. Fundamenta Informaticae, 1993, 19, 383-402.	0.4	0
121	An improved deterministic algorithm for generalized random sampling. Lecture Notes in Computer Science, 1997, , 159-170.	1.3	0
122	On the Hardness of Optimal Vertex Relabeling and Restricted Vertex Relabeling. Lecture Notes in Computer Science, 2015, , 1-12.	1.3	0
123	Multidimensional Compressed Pattern Matching. , 2016, , 1366-1369.		0
124	Two-Dimensional Scaled Pattern Matching. , 2016, , 2278-2282.		0
125	Finding Periods in Cartesian Tree Matching. Lecture Notes in Computer Science, 2019, , 70-84.	1.3	0
126	Multidimensional Period Recovery. Lecture Notes in Computer Science, 2020, , 115-130.	1.3	0