Amihood Amir

List of Publications by Year
in descending order

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	Multidimensional Period Recovery. Algorithmica, 2022, 84, 1490-1510.	1.3	1
2	Towards a real time algorithm for parameterized longest common prefix computation. Theoretical Computer Science, 2021, 852, 132-137.	0.9	1
3	Dynamic and Internal Longest Common Substring. Algorithmica, 2020, 82, 3707-3743.	1.3	12
4	Finding patterns and periods in Cartesian tree matching. Theoretical Computer Science, 2020, 845, 181-197.	0.9	2
5	Online recognition of dictionary with one gap. Information and Computation, 2020, 275, 104633.	0.7	2
6	Multidimensional Period Recovery. Lecture Notes in Computer Science, 2020, , 115-130.	1.3	0
7	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
8	Can We Recover the Cover?. Algorithmica, 2019, 81, 2857-2875.	1.3	6
9	Mind the Gap!. Algorithmica, 2019, 81, 2123-2157.	1.3	8
10	Finding Periods in Cartesian Tree Matching. Lecture Notes in Computer Science, 2019, , 70-84.	1.3	0
11	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
12	On Representations of Ternary Order Relations in Numeric Strings. Mathematics in Computer Science, 2017, 11, 127-136.	0.4	9
13	Longest Common Factor After One Edit Operation. Lecture Notes in Computer Science, 2017, , 14-26.	1.3	6
14	Period Recovery over the Hamming and Edit Distances. Lecture Notes in Computer Science, 2016, , 55-67.	1.3	2
15	Configurations and Minority in the String Consensus Problem. Algorithmica, 2016, 74, 1267-1292.	1.3	1
16	Multidimensional Compressed Pattern Matching. , 2016, , 1366-1369.		0
17	Two-Dimensional Scaled Pattern Matching. , 2016, , 2278-2282.		0
18	Approximate periodicity. Information and Computation, 2015, 241, 215-226.	0.7	4

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19	Dictionary matching with a few gaps. Theoretical Computer Science, 2015, 589, 34-46.	0.9	6
20	A PTAS for the Square Tiling Problem. Theoretical Computer Science, 2015, 562, 33-45.	0.9	1
21	Range LCP Queries Revisited. Lecture Notes in Computer Science, 2015, , 350-361.	1.3	4
22	On the Hardness of Optimal Vertex Relabeling and Restricted Vertex Relabeling. Lecture Notes in Computer Science, 2015, , 1-12.	1.3	0
23	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
24	Range LCP. Journal of Computer and System Sciences, 2014, 80, 1245-1253.	1.2	12
25	Closest periodic vectors in Lp spaces. Theoretical Computer Science, 2014, 533, 26-36.	0.9	0
26	On the relationship between histogram indexing and block-mass indexing. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2014, 372, 20130132.	3.4	5
27	Dictionary Matching with One Gap. Lecture Notes in Computer Science, 2014, , 11-20.	1.3	7
28	On Hardness of Jumbled Indexing. Lecture Notes in Computer Science, 2014, , 114-125.	1.3	30
29	Hypertext Searching - A Survey. Lecture Notes in Computer Science, 2014, , 364-381.	1.3	3
30	Approximate On-line Palindrome Recognition, and Applications. Lecture Notes in Computer Science, 2014, , 21-29.	1.3	1
31	On the hardness of the Consensus String problem. Information Processing Letters, 2013, 113, 371-374.	0.6	12
32	Pattern Matching with Non Overlapping Reversals - Approximation and On-line Algorithms. Lecture Notes in Computer Science, 2013, , 55-65.	1.3	2
33	Cycle detection and correction. ACM Transactions on Algorithms, 2012, 9, 1-20.	1.0	10
34	Approximate Period Detection and Correction. Lecture Notes in Computer Science, 2012, , 1-15.	1.3	2
35	Towards a theory of patches. Journal of Discrete Algorithms, 2012, 12, 61-73.	0.7	1
36	Configurations and Minority in the String Consensus Problem. Lecture Notes in Computer Science, 2012, , 42-53.	1.3	5

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37	Approximate string matching with stuck address bits. Theoretical Computer Science, 2011, 412, 3537-3544.	0.9	2
38	Approximations and Partial Solutions for the Consensus Sequence Problem. Lecture Notes in Computer Science, 2011, , 168-173.	1.3	6
39	Closest Periodic Vectors in L p Spaces. Lecture Notes in Computer Science, 2011, , 714-723.	1.3	3
40	Weighted Shortest Common Supersequence. Lecture Notes in Computer Science, 2011, , 44-54.	1.3	1
41	Faster Two Dimensional Scaled Matching. Algorithmica, 2010, 56, 214-234.	1.3	13
42	Weighted LCS. Journal of Discrete Algorithms, 2010, 8, 273-281.	0.7	18
43	A PTAS for the Square Tiling Problem. Lecture Notes in Computer Science, 2010, , 118-126.	1.3	0
44	Cycle Detection and Correction. Lecture Notes in Computer Science, 2010, , 43-54.	1.3	2
45	Approximate Periodicity. Lecture Notes in Computer Science, 2010, , 25-36.	1.3	9
46	On the Cost of Interchange Rearrangement in Strings. SIAM Journal on Computing, 2010, 39, 1444-1461.	1.0	9
47	String Rearrangement Metrics: A Survey. Lecture Notes in Computer Science, 2010, , 1-33.	1.3	6
48	Approximate String Matching with Stuck Address Bits. Lecture Notes in Computer Science, 2010, , 395-405.	1.3	1
49	Real Two Dimensional Scaled Matching. Algorithmica, 2009, 53, 314-336.	1.3	18
50	Efficient computations of ‹mml:math altimg="si1.gif" display="inline" 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.el. Theoretical	0.9	6
51	Approximate string matching with address bit errors. Theoretical Computer Science, 2009, 410, 5334-5346.	0.9	6
52	Parameterized matching on non-linear structures. Information Processing Letters, 2009, 109, 864-867.	0.6	5
53	Pattern matching with address errors: Rearrangement distances. Journal of Computer and System Sciences, 2009, 75, 359-370.	1.2	22
54	Consensus Optimizing Both Distance Sum and Radius. Lecture Notes in Computer Science, 2009, , 234-242.	1.3	9

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55	Towards a Theory of Patches. Lecture Notes in Computer Science, 2009, , 254-265.	1.3	2
56	Generalized LCS. Theoretical Computer Science, 2008, 409, 438-449.	0.9	12
57	Property matching and weighted matching. Theoretical Computer Science, 2008, 395, 298-310.	0.9	33
58	Approximate String Matching with Address Bit Errors. , 2008, , 118-129.		12
59	Multidimensional Compressed Pattern Matching. , 2008, , 556-559.		0
60	Two-Dimensional Scaled Pattern Matching. , 2008, , 982-985.		0
61	Dynamic text and static pattern matching. ACM Transactions on Algorithms, 2007, 3, 19.	1.0	36
62	Efficient one-dimensional real scaled matching. Journal of Discrete Algorithms, 2007, 5, 205-211.	0.7	7
63	Generalized function matching. Journal of Discrete Algorithms, 2007, 5, 514-523.	0.7	26
64	Efficient Computations of â„"1 and â„"â€‰â^žâ€‰ Rearrangement Distances. Lecture Notes in Computer Science, 2007, , 39-49.	1.3	9
65	Generalized LCS. , 2007, , 50-61.		7
66	Function Matching. SIAM Journal on Computing, 2006, 35, 1007-1022.	1.0	18
67	Faster two-dimensional pattern matching with rotations. Theoretical Computer Science, 2006, 368, 196-204.	0.9	23
68	Swap and mismatch edit distance. Algorithmica, 2006, 45, 109-120.	1.3	21
69	Property Matching and Weighted Matching. Lecture Notes in Computer Science, 2006, , 188-199.	1.3	10
70	Approximate Matching in Weighted Sequences. Lecture Notes in Computer Science, 2006, , 365-376.	1.3	14
71	Faster Two Dimensional Scaled Matching. Lecture Notes in Computer Science, 2006, , 200-210.	1.3	12
72	Asynchronous Pattern Matching. Lecture Notes in Computer Science, 2006, , 1-10.	1.3	3

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73	Maximal Association Rules: A Tool for Mining Associations in Text. Journal of Intelligent Information Systems, 2005, 25, 333-345.	3.9	31
74	Approximate Matching in the L 1 Metric. Lecture Notes in Computer Science, 2005, , 91-103.	1.3	18
75	THEORETICAL ISSUES OF SEARCHING AERIAL PHOTOGRAPHS: A BIRD'S EYE VIEW. International Journal of Foundations of Computer Science, 2005, 16, 1075-1097.	1.1	4
76	The submatrices character count problem: an efficient solution using separable values. Information and Computation, 2004, 190, 100-116.	0.7	3
77	Faster algorithms for string matching with k mismatches. Journal of Algorithms, 2004, 50, 257-275.	0.9	121
78	Two-dimensional pattern matching with rotations. Theoretical Computer Science, 2004, 314, 173-187.	0.9	33
79	Efficient One Dimensional Real Scaled Matching. Lecture Notes in Computer Science, 2004, , 1-9.	1.3	4
80	Faster Two Dimensional Pattern Matching with Rotations. Lecture Notes in Computer Science, 2004, , 409-419.	1.3	20
81	Swap and Mismatch Edit Distance. Lecture Notes in Computer Science, 2004, , 16-27.	1.3	6
82	Generalized Function Matching. Lecture Notes in Computer Science, 2004, , 41-52.	1.3	2
83	Overlap matching. Information and Computation, 2003, 181, 57-74.	0.7	54
84	Some connections between bounded query classes and non-uniform complexity. Information and Computation, 2003, 186, 104-139.	0.7	7
85	Inplace 2D matching in compressed images. Journal of Algorithms, 2003, 49, 240-261.	0.9	12
86	Inplace run-length 2d compressed search. Theoretical Computer Science, 2003, 290, 1361-1383.	0.9	18
87	Efficient text fingerprinting via Parikh mapping. Journal of Discrete Algorithms, 2003, 1, 409-421.	0.7	42
88	A rapid method for detection of putative RNAi target genes in genomic data. Bioinformatics, 2003, 19, ii73-ii80.	4.1	11
89	Function Matching: Algorithms, Applications, and a Lower Bound. Lecture Notes in Computer Science, 2003, , 929-942.	1.3	29
90	Two-Dimensional Pattern Matching with Rotations. Lecture Notes in Computer Science, 2003, , 17-31.	1.3	8

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91	Real Two Dimensional Scaled Matching. Lecture Notes in Computer Science, 2003, , 353-364.	1.3	11
92	Approximate swapped matching. Information Processing Letters, 2002, 83, 33-39.	0.6	39
93	Pattern Matching in Hypertext. Journal of Algorithms, 2000, 35, 82-99.	0.9	41
94	Alphabet-Independent and Scaled Dictionary Matching. Journal of Algorithms, 2000, 36, 34-62.	0.9	20
95	Text Indexing and Dictionary Matching with One Error. Journal of Algorithms, 2000, 37, 309-325.	0.9	59
96	Pattern Matching with Swaps. Journal of Algorithms, 2000, 37, 247-266.	0.9	56
97	Approximate Swapped Matching. Lecture Notes in Computer Science, 2000, , 302-311.	1.3	1
98	Real scaled matching. Information Processing Letters, 1999, 70, 185-190.	0.6	33
99	Indexing and Dictionary Matching with One Error (Extended Abstract). Lecture Notes in Computer Science, 1999, , 181-192.	1.3	13
100	Efficient special cases of Pattern Matching with Swaps. Information Processing Letters, 1998, 68, 125-132.	0.6	28
101	Optimal Parallel Two Dimensional Text Searching on a CREW PRAM. Information and Computation, 1998, 144, 1-17.	0.7	14
102	Two-Dimensional Periodicity in Rectangular Arrays. SIAM Journal on Computing, 1998, 27, 90-106.	1.0	51
103	Maximum Agreement Subtree in a Set of Evolutionary Trees: Metrics and Efficient Algorithms. SIAM Journal on Computing, 1997, 26, 1656-1669.	1.0	95
104	Optimal Two-Dimensional Compressed Matching. Journal of Algorithms, 1997, 24, 354-379.	0.9	22
105	An improved deterministic algorithm for generating different many-element random samples. Information Processing Letters, 1997, 62, 95-101.	0.6	0
106	Pattern matching in hypertext. Lecture Notes in Computer Science, 1997, , 160-173.	1.3	10
107	An improved deterministic algorithm for generalized random sampling. Lecture Notes in Computer Science, 1997, , 159-170.	1.3	0
108	Let Sleeping Files Lie: Pattern Matching in Z-Compressed Files. Journal of Computer and System Sciences, 1996, 52, 299-307.	1.2	136

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109	Alphabet independent and dictionary scaled matching. Lecture Notes in Computer Science, 1996, , 320-334.	1.3	15
110	Alphabet dependence in parameterized matching. Information Processing Letters, 1994, 49, 111-115.	0.6	96
111	Dynamic dictionary matching. Journal of Computer and System Sciences, 1994, 49, 208-222.	1.2	70
112	An Alphabet Independent Approach to Two-Dimensional Pattern Matching. SIAM Journal on Computing, 1994, 23, 313-323.	1.0	77
113	A pearl diver deals a poker hand. International Journal of Computer Mathematics, 1993, 48, 11-14.	1.8	2
114	Optimal parallel two dimensional pattern matching. , 1993, , .		18
115	The Syntax of Parallelism. Fundamenta Informaticae, 1993, 19, 383-402.	0.4	0
116	Alphabet independent two dimensional matching. , 1992, , .		39
117	Efficient pattern matching with scaling. Journal of Algorithms, 1992, 13, 2-32.	0.9	63
118	Two-dimensional dictionary matching. Information Processing Letters, 1992, 44, 233-239.	0.6	39
119	Fast parallel and serial multidimensional approximate array matching. Theoretical Computer Science, 1991, 81, 97-115.	0.9	71
120	An efficient algorithm for generalized random sampling. Pattern Recognition Letters, 1991, 12, 683-686.	4.2	4
121	Efficient matching of nonrectangular shapes. Annals of Mathematics and Artificial Intelligence, 1991, 4, 211-224.	1.3	6
122	Fast Parallel and Serial Multidimensional Approximate Array Matching. , 1990, , 3-24.		2
123	Polynomial terse sets. Information and Computation, 1988, 77, 37-56.	0.7	55
124	A direct linear-time planarity test for unflippable modules. International Journal of Computer Mathematics, 1987, 21, 277-290.	1.8	1
125	A syntactical definition of the problem. International Journal of Computer Mathematics, 1985, 17, 217-228.	1.8	3
126	Polynomial computations in non-deterministic loop-programs and PL-programs. International Journal of Computer Mathematics, 1983, 14, 209-221.	1.8	3