

Dekel Tsur

List of Publications by Year in descending order

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65
papers

1,286
citations

567281

15
h-index

377865

34
g-index

68
all docs

68
docs citations

68
times ranked

1143
citing authors

#	ARTICLE	IF	CITATIONS
1	Cluster graph modification problems. Discrete Applied Mathematics, 2004, 144, 173-182.	0.9	274
2	Identification of post-translational modifications by blind search of mass spectra. Nature Biotechnology, 2005, 23, 1562-1567.	17.5	247
3	Protein identification by spectral networks analysis. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 6140-6145.	7.1	157
4	Faster Subtree Isomorphism. Journal of Algorithms, 1999, 33, 267-280.	0.9	81
5	Tradeoffs in worst-case equilibria. Theoretical Computer Science, 2006, 361, 200-209.	0.9	56
6	Sparse RNA folding: Time and space efficient algorithms. Journal of Discrete Algorithms, 2011, 9, 12-31.	0.7	45
7	Character sets of strings. Journal of Discrete Algorithms, 2007, 5, 330-340.	0.7	25
8	Faster two-dimensional pattern matching with rotations. Theoretical Computer Science, 2006, 368, 196-204.	0.9	23
9	Large Scale Sequencing by Hybridization. Journal of Computational Biology, 2002, 9, 413-428.	1.6	22
10	Parameterized algorithm for 3-path vertex cover. Theoretical Computer Science, 2019, 783, 1-8.	0.9	21
11	Identification of post-translational modifications via blind search of mass-spectra. , 2005, , 157-66.		20
12	Faster Two Dimensional Pattern Matching with Rotations. Lecture Notes in Computer Science, 2004, , 409-419.	1.3	20
13	Optimal spaced seeds for faster approximate string matching. Journal of Computer and System Sciences, 2007, 73, 1035-1044.	1.2	17
14	Sparse RNA Folding: Time and Space Efficient Algorithms. Lecture Notes in Computer Science, 2009, , 249-262.	1.3	17
15	Fast index for approximate string matching. Journal of Discrete Algorithms, 2010, 8, 339-345.	0.7	16
16	Top-k document retrieval in optimal space. Information Processing Letters, 2013, 113, 440-443.	0.6	16
17	Approximate string matching using a bidirectional index. Theoretical Computer Science, 2016, 638, 145-158.	0.9	16
18	Approximate Labelled Subtree Homeomorphism. Lecture Notes in Computer Science, 2004, , 59-73.	1.3	15

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19	Reducing the worst case running times of a family of RNA and CFG problems, using Valiant's approach. Algorithms for Molecular Biology, 2011, 6, 20.	1.2	13
20	Generalized LCS. Theoretical Computer Science, 2008, 409, 438-449.	0.9	12
21	Approximate labelled subtree homeomorphism. Journal of Discrete Algorithms, 2008, 6, 480-496.	0.7	12
22	Faster Parameterized Algorithm for Cluster Vertex Deletion. Theory of Computing Systems, 2021, 65, 323-343.	1.1	12
23	Testing Properties of Constraint-Graphs. Computational Complexity, IEEE Annual Conference on, 2007, , .	0.0	11
24	An $\Omega(n^2)$ algorithm for 4-Path Vertex Cover. Discrete Applied Mathematics, 2021, 291, 1-14.	0.9	10
25	Efficient one-dimensional real scaled matching. Journal of Discrete Algorithms, 2007, 5, 205-211.	0.7	7
26	Generalized LCS. , 2007, , 50-61.		7
27	Efficient edit distance with duplications and contractions. Algorithms for Molecular Biology, 2013, 8, 27.	1.2	6
28	Succinct representation of labeled trees. Theoretical Computer Science, 2015, 562, 320-329.	0.9	6
29	Faster deterministic parameterized algorithm for k-Path. Theoretical Computer Science, 2019, 790, 96-104.	0.9	6
30	Fast RNA Structure Alignment for Crossing Input Structures. Lecture Notes in Computer Science, 2009, , 236-248.	1.3	6
31	Improved algorithms for the random cluster graph model. Random Structures and Algorithms, 2007, 31, 418-449.	1.1	5
32	Faster parameterized algorithm for pumpkin vertex deletion set. Information Processing Letters, 2019, 147, 74-76.	0.6	5
33	Tight Bounds for String Reconstruction Using Substring Queries. Lecture Notes in Computer Science, 2005, , 448-459.	1.3	5
34	Reducing the Worst Case Running Times of a Family of RNA and CFG Problems, Using Valiant's Approach. Lecture Notes in Computer Science, 2010, , 65-77.	1.3	5
35	Bounds for Resequencing by Hybridization. Lecture Notes in Computer Science, 2003, , 498-511.	1.3	4
36	Efficient One Dimensional Real Scaled Matching. Lecture Notes in Computer Science, 2004, , 1-9.	1.3	4

#	ARTICLE	IF	CITATIONS
37	Fast algorithms for computing tree LCS. Theoretical Computer Science, 2009, 410, 4303-4314.	0.9	4
38	Sequencing by hybridization in few rounds. Journal of Computer and System Sciences, 2010, 76, 751-758.	1.2	4
39	Finding witnesses by peeling. ACM Transactions on Algorithms, 2011, 7, 1-15.	1.0	4
40	Two-Dimensional Parameterized Matching. ACM Transactions on Algorithms, 2014, 11, 1-30.	1.0	3
41	Faster parameterized algorithm for Bicluster Editing. Information Processing Letters, 2021, 168, 106095.	0.6	3
42	Cluster deletion revisited. Information Processing Letters, 2022, 173, 106171.	0.6	3
43	Optimal Probing Patterns for Sequencing by Hybridization. Lecture Notes in Computer Science, 2006, , 366-375.	1.3	3
44	Edit Distance with Duplications and Contractions Revisited. Lecture Notes in Computer Science, 2011, , 441-454.	1.3	3
45	Faster algorithm for pathwidth one vertex deletion. Theoretical Computer Science, 2022, 921, 63-74.	0.9	3
46	Efficient all path score computations on grid graphs. Theoretical Computer Science, 2014, 525, 138-149.	0.9	2
47	The effective entropy of next/previous larger/smaller value queries. Information Processing Letters, 2019, 145, 39-43.	0.6	2
48	Faster algorithms for cograph edge modification problems. Information Processing Letters, 2020, 158, 105946.	0.6	2
49	Kernel for K-free Edge Deletion. Information Processing Letters, 2021, 167, 106082.	0.6	2
50	Fast Algorithms for Computing Tree LCS. , 2008, , 230-243.		2
51	Sequencing by hybridization with errors: handling longer sequences. Theoretical Computer Science, 2005, 332, 559-566.	0.9	1
52	Tree-edges deletion problems with bounded diameter obstruction sets. Discrete Applied Mathematics, 2007, 155, 1275-1293.	0.9	1
53	Improved scheduling in rings. Journal of Parallel and Distributed Computing, 2007, 67, 531-535.	4.1	1
54	Faster algorithms for guided tree edit distance. Information Processing Letters, 2008, 108, 251-254.	0.6	1

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55	The Worst Case Complexity of Maximum Parsimony. Journal of Computational Biology, 2014, 21, 799-808.	1.6	1
56	Succinct data structures for nearest colored node in a tree. Information Processing Letters, 2018, 132, 6-10.	0.6	1
57	Succinct data structure for dynamic trees with faster queries. Theoretical Computer Science, 2019, 780, 12-19.	0.9	1
58	Fast RNA structure alignment for crossing input structures. Journal of Discrete Algorithms, 2011, 9, 2-11.	0.7	0
59	On Almost Monge All Scores Matrices. Algorithmica, 2019, 81, 47-68.	1.3	0
60	An FPT algorithm for orthogonal buttons and scissors. Information Processing Letters, 2020, 163, 105997.	0.6	0
61	Algorithms for deletion problems on split graphs. Information Processing Letters, 2021, 167, 106066.	0.6	0
62	Representation of ordered trees with a given degree distribution. Journal of Computer and System Sciences, 2021, 118, 119-130.	1.2	0
63	Indexing a Dictionary for Subset Matching Queries. Lecture Notes in Computer Science, 2010, , 158-169.	1.3	0
64	Efficient All Path Score Computations on Grid Graphs. Lecture Notes in Computer Science, 2013, , 211-222.	1.3	0
65	The Worst Case Complexity of Maximum Parsimony. Lecture Notes in Computer Science, 2014, , 79-88.	1.3	0