

# Ely Porat

## List of Publications by Year in descending order

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Version: 2024-02-01

74  
papers

1,034  
citations

623734

14  
h-index

552781

26  
g-index

76  
all docs

76  
docs citations

76  
times ranked

348  
citing authors

#	ARTICLE	IF	CITATIONS
1	Faster algorithms for string matching with $k$ mismatches. Journal of Algorithms, 2004, 50, 257-275.	0.9	121
2	Explicit Nonadaptive Combinatorial Group Testing Schemes. IEEE Transactions on Information Theory, 2011, 57, 7982-7989.	2.4	68
3	Explicit Non-adaptive Combinatorial Group Testing Schemes. Lecture Notes in Computer Science, 2008, , 748-759.	1.3	59
4	Overlap matching. Information and Computation, 2003, 181, 57-74.	0.7	54
5	Exact and Approximate Pattern Matching in the Streaming Model. , 2009, , .		44
6	Fast set intersection and two-patterns matching. Theoretical Computer Science, 2010, 411, 3795-3800.	0.9	43
7	Approximate swapped matching. Information Processing Letters, 2002, 83, 33-39.	0.6	39
8	Fast moment estimation in data streams in optimal space. , 2011, , .		35
9	Higher Lower Bounds from the 3SUM Conjecture. , 2016, , .		35
10	Pattern matching with don't cares and few errors. Journal of Computer and System Sciences, 2010, 76, 115-124.	1.2	31
11	Function Matching: Algorithms, Applications, and a Lower Bound. Lecture Notes in Computer Science, 2003, , 929-942.	1.3	29
12	Pattern matching with address errors: Rearrangement distances. Journal of Computer and System Sciences, 2009, 75, 359-370.	1.2	22
13	Approximate Sparse Recovery: Optimizing Time and Measurements. SIAM Journal on Computing, 2012, 41, 436-453.	1.0	22
14	Swap and mismatch edit distance. Algorithmica, 2006, 45, 109-120.	1.3	21
15	Approximate Matching in the $L_1$ Metric. Lecture Notes in Computer Science, 2005, , 91-103.	1.3	18
16	Function Matching. SIAM Journal on Computing, 2006, 35, 1007-1022.	1.0	18
17	The $k$ -mismatch problem revisited. , 2016, , .		18
18	$k$ -Mismatch with Don't Cares. , 2007, , 151-162.		18

#	ARTICLE	IF	CITATIONS
19	Closest Pair Problems in Very High Dimensions. Lecture Notes in Computer Science, 2004, , 782-792.	1.3	16
20	Improved Sketching of Hamming Distance with Error Correcting. Lecture Notes in Computer Science, 2007, , 173-182.	1.3	15
21	For-All Sparse Recovery in Near-Optimal Time. ACM Transactions on Algorithms, 2017, 13, 1-26.	1.0	13
22	From coding theory to efficient pattern matching. , 2009, , .		12
23	Approximate String Matching with Address Bit Errors. , 2008, , 118-129.		12
24	Dictionary Matching in a Stream. Lecture Notes in Computer Science, 2015, , 361-372.	1.3	12
25	A black box for online approximate pattern matching. Information and Computation, 2011, 209, 731-736.	0.7	11
26	Dynamic Set Intersection. Lecture Notes in Computer Science, 2015, , 470-481.	1.3	11
27	Real Two Dimensional Scaled Matching. Lecture Notes in Computer Science, 2003, , 353-364.	1.3	11
28	Cycle detection and correction. ACM Transactions on Algorithms, 2012, 9, 1-20.	1.0	10
29	On the Cost of Interchange Rearrangement in Strings. SIAM Journal on Computing, 2010, 39, 1444-1461.	1.0	9
30	Fingerprints for highly similar streams. Information and Computation, 2015, 244, 113-121.	0.7	9
31	Efficient Computations of $\hat{d}_1$ and $\hat{d}_2$ Rearrangement Distances. Lecture Notes in Computer Science, 2007, , 39-49.	1.3	9
32	Approximating text-to-pattern Hamming distances. , 2020, , .		9
33	pattern matching lower bound. Information Processing Letters, 2008, 105, 141-143.	0.6	8
34	Approximate matching in the metric. Information Processing Letters, 2008, 105, 138-140.	0.6	8
35	Preprocess, Set, Query!. Algorithmica, 2013, 67, 516-528.	1.3	8
36	Pattern Matching under Polynomial Transformation. SIAM Journal on Computing, 2013, 42, 611-633.	1.0	8

#	ARTICLE	IF	CITATIONS
37	Mind the Gap!. <i>Algorithmica</i> , 2019, 81, 2123-2157.	1.3	8
38	The streaming $k$ -mismatch problem. , 2019, , 1106-1125.		8
39	â„“2/â„“2-Foreach Sparse Recovery with Low Risk. <i>Lecture Notes in Computer Science</i> , 2013, , 461-472.	1.3	8
40	Efficient one-dimensional real scaled matching. <i>Journal of Discrete Algorithms</i> , 2007, 5, 205-211.	0.7	7
41	String matching with up to $k$ swaps and mismatches. <i>Information and Computation</i> , 2010, 208, 1020-1030.	0.7	7
42	Dictionary Matching with One Gap. <i>Lecture Notes in Computer Science</i> , 2014, , 11-20.	1.3	7
43	A Black Box for Online Approximate Pattern Matching. , 2008, , 143-151.		7
44	Efficient computations of $\langle \text{mml:math altimg="si1.gif" display="inline" overflow="scroll" xmlns:xocs="http://www.elsevier.com/xml/xocs/dtd" xmlns:xs="http://www.w3.org/2001/XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns="http://www.elsevier.com/xml/ja/dtd" xmlns:ja="http://www.elsevier.com/xml/ja/dtd" xmlns:mml="http://www.w3.org/1998/Math/MathML" xmlns:tb="http://www.elsevier.com/xml/common/table/dtd" xmlns:sb="http://www.elsevier.com/xml/common/struct-bib/dtd" xmlns:ce="http://www.el.$	0.9	6
45	Approximate string matching with address bit errors. <i>Theoretical Computer Science</i> , 2009, 410, 5334-5346.	0.9	6
46	Approximate Pattern Matching with the $L_1$ , $L_2$ and $L_\infty$ Metrics. <i>Algorithmica</i> , 2011, 60, 335-348.	1.3	6
47	Space lower bounds for online pattern matching. <i>Theoretical Computer Science</i> , 2013, 483, 68-74.	0.9	6
48	Swap and Mismatch Edit Distance. <i>Lecture Notes in Computer Science</i> , 2004, , 16-27.	1.3	6
49	A Filtering Algorithm for $k$ -Mismatch with Donâ€™t Cares. , 2007, , 130-136.		6
50	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
51	Deterministic Length Reduction: Fast Convolution in Sparse Data and Applications. <i>Lecture Notes in Computer Science</i> , 2007, , 183-194.	1.3	5
52	Improved Algorithms for Polynomial-Time Decay and Time-Decay with Additive Error. <i>Theory of Computing Systems</i> , 2008, 42, 349-365.	1.1	4
53	Breaking the Variance: Approximating the Hamming Distance in $1/\epsilon$ Time Per Alignment. , 2015, , .		4
54	For-All Sparse Recovery in Near-Optimal Time. <i>Lecture Notes in Computer Science</i> , 2014, , 538-550.	1.3	4

#	ARTICLE	IF	CITATIONS
55	The frequent items problem, under polynomial decay, in the streaming model. Theoretical Computer Science, 2010, 411, 3048-3054.	0.9	3
56	A filtering algorithm for k-mismatch with don't cares. Information Processing Letters, 2010, 110, 1021-1025.	0.6	3
57	Mismatch sampling. Information and Computation, 2012, 214, 112-118.	0.7	3
58	Linear Time Succinct Indexable Dictionary Construction with Applications. , 2016, , .		3
59	A Grouping Approach for Succinct Dynamic Dictionary Matching. Algorithmica, 2017, 77, 134-150.	1.3	3
60	Pattern Matching in Multiple Streams. Lecture Notes in Computer Science, 2012, , 97-109.	1.3	3
61	The approximate swap and mismatch edit distance. Theoretical Computer Science, 2010, 411, 3814-3822.	0.9	2
62	Approximate string matching with stuck address bits. Theoretical Computer Science, 2011, 412, 3537-3544.	0.9	2
63	d-k-min-wise independent family of hash functions. Journal of Computer and System Sciences, 2017, 84, 171-184.	1.2	2
64	Finding the Position of the k-Mismatch and Approximate Tandem Repeats. Lecture Notes in Computer Science, 2006, , 90-101.	1.3	2
65	Approximate Swap and Mismatch Edit Distance. Lecture Notes in Computer Science, 2007, , 149-163.	1.3	2
66	Online recognition of dictionary with one gap. Information and Computation, 2020, 275, 104633.	0.7	2
67	Small-space and streaming pattern matching with $k$ edits. , 2022, , .		2
68	Streaming Pattern Matching with $d$ Wildcards. Algorithmica, 2019, 81, 1988-2015.	1.3	1
69	Approximate String Matching with Stuck Address Bits. Lecture Notes in Computer Science, 2010, , 395-405.	1.3	1
70	Dynamic Dictionary Matching in the Online Model. Lecture Notes in Computer Science, 2019, , 409-422.	1.3	1
71	Jump-Matching with Errors. , 2007, , 98-106.		1
72	Camouflaged Private Communication. , 2011, , .		0

#	ARTICLE	IF	CITATIONS
73	Guest Editorial for "Group Testing: models and applications", <i>Algorithmica</i> , 2013, 67, 293-294.	1.3	0
74	Mismatch Sampling. <i>Lecture Notes in Computer Science</i> , 2008, , 99-108.	1.3	0