Dana Ron

List of Publications by Year
in descending order

125 papers	4,072 citations	147801 31 h-index	144013 57 g-index
135 all docs	135 docs citations	135 times ranked	1173 citing authors

#	Article	IF	Citations
1	Property testing and its connection to learning and approximation. Journal of the ACM, 1998, 45, 653-750.	2.2	702
2	The Power of Amnesia: Learning Probabilistic Automata with Variable Memory Length. Machine Learning, 1996, 25, 117-149.	5.4	179
3	The power of amnesia: Learning probabilistic automata with variable memory length. Machine Learning, 1997, 25, 117-149.	5.4	166
4	Testing Monotonicity. Combinatorica, 2000, 20, 301-337.	1.2	148
5	On the learnability of discrete distributions. , 1994, , .		132
6	Conflict-Free Colorings of Simple Geometric Regions with Applications to Frequency Assignment in Cellular Networks. SIAM Journal on Computing, 2003, 33, 94-136.	1.0	132
7	The power of a pebble. , 1998, , .		109
8	Approximating the minimum vertex cover in sublinear time and a connection to distributed algorithms. Theoretical Computer Science, 2007, 381, 183-196.	0.9	109
9	A Sublinear Bipartiteness Tester for Bounded Degree Graphs. Combinatorica, 1999, 19, 335-373.	1.2	106
10	Tolerant property testing and distance approximation. Journal of Computer and System Sciences, 2006, 72, 1012-1042.	1.2	104
11	lgorithmic and Analysis Techniques in Property Testing. Foundations and Trends in Theoretical Computer Science, 2009, 5, 73-205.	0.3	88
12	Property Testing: A Learning Theory Perspective. Foundations and Trends in Machine Learning, 2007, 1, 307-402.	69.0	84
13	The Power of a Pebble: Exploring and Mapping Directed Graphs. Information and Computation, 2002, 176, 1-21.	0.7	80
14	Property testing in bounded degree graphs. , 1997, , .		76
15	Testing Basic Boolean Formulae. SIAM Journal on Discrete Mathematics, 2002, 16, 20-46.	0.8	71
16	Property Testing. Combinatorial Optimization, 2001, , 597-649.	0.7	71
17	Testing juntas. Journal of Computer and System Sciences, 2004, 68, 753-787.	1.2	70
18	Tight Bounds for Testing Bipartiteness in General Graphs. SIAM Journal on Computing, 2004, 33, 1441-1483.	1.0	69

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19	Improved Testing Algorithms for Monotonicity. Lecture Notes in Computer Science, 1999, , 97-108.	1.3	68
20	On the Learnability and Usage of Acyclic Probabilistic Finite Automata. Journal of Computer and System Sciences, 1998, 56, 133-152.	1.2	67
21	An Experimental and Theoretical Comparison of Model Selection Methods. Machine Learning, 1997, 27, 7-50.	5.4	62
22	Scheduling with conflicts: online and offline algorithms. Journal of Scheduling, 2009, 12, 199-224.	1.9	57
23	A New Conceptual Clustering Framework. Machine Learning, 2004, 56, 115-151.	5.4	52
24	Strong Lower Bounds for Approximating Distribution Support Size and the Distinct Elements Problem. SIAM Journal on Computing, 2009, 39, 813-842.	1.0	52
25	Testing the diameter of graphs. Random Structures and Algorithms, 2002, 20, 165-183.	1.1	49
26	Learning probabilistic automata with variable memory length. , 1994, , .		48
27	Approximating average parameters of graphs. Random Structures and Algorithms, 2008, 32, 473-493.	1.1	45
28	Testing Polynomials over General Fields. SIAM Journal on Computing, 2006, 36, 779-802.	1.0	42
29	Testing of Clustering. SIAM Journal on Discrete Mathematics, 2003, 16, 393-417.	0.8	41
30	Counting Stars and Other Small Subgraphs in Sublinear-Time. SIAM Journal on Discrete Mathematics, 2011, 25, 1365-1411.	0.8	40
31	Approximating the distance to properties in bounded-degree and general sparse graphs. ACM Transactions on Algorithms, 2009, 5, 1-28.	1.0	34
32	On Proximity-Oblivious Testing. SIAM Journal on Computing, 2011, 40, 534-566.	1.0	33
33	Approximately Counting Triangles in Sublinear Time. SIAM Journal on Computing, 2017, 46, 1603-1646.	1.0	33
34	Testing the diameter of graphs. Random Structures and Algorithms, 2002, 20, 165-183.	1.1	33
35	On Testing Expansion in Bounded-Degree Graphs. Lecture Notes in Computer Science, 2011, , 68-75.	1.3	33
36	On Disjoint Chains of Subsets. Journal of Combinatorial Theory - Series A, 2001, 94, 399-404.	0.8	32

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37	Testing Problems with Sublearning Sample Complexity. Journal of Computer and System Sciences, 2000, 61, 428-456.	1.2	31
38	Efficient learning of typical finite automata from random walks. , 1993, , .		25
39	Testing Triangle-Freeness in General Graphs. SIAM Journal on Discrete Mathematics, 2008, 22, 786-819.	0.8	24
40	Finding cycles and trees in sublinear time. Random Structures and Algorithms, 2014, 45, 139-184.	1.1	23
41	Testing properties of directed graphs: acyclicity and connectivity. Random Structures and Algorithms, 2002, 20, 184-205.	1.1	22
42	Approximating the distance to monotonicity in high dimensions. ACM Transactions on Algorithms, 2010, 6, 1-37.	1.0	22
43	Sublinear Algorithms for Approximating String Compressibility. Algorithmica, 2013, 65, 685-709.	1.3	22
44	Approximately Counting Triangles in Sublinear Time. , 2015, , .		21
45	A Near-Optimal Sublinear-Time Algorithm for Approximating the Minimum Vertex Cover Size. , 2012, , .		20
46	Approximating the Influence of Monotone Boolean Functions in O(âˆšn) Query Complexity. ACM Transactions on Computation Theory, 2012, 4, 1-12.	0.7	19
47	Testing Probability Distributions using Conditional Samples. SIAM Journal on Computing, 2015, 44, 540-616.	1.0	19
48	Efficient Learning of Typical Finite Automata from Random Walks. Information and Computation, 1997, 138, 23-48.	0.7	17
49	On Testing Convexity and Submodularity. SIAM Journal on Computing, 2003, 32, 1158-1184.	1.0	17
50	On proximity oblivious testing. , 2009, , .		17
51	A Quasi-Polynomial Time Partition Oracle for Graphs with an Excluded Minor. ACM Transactions on Algorithms, 2015, 11, 1-13.	1.0	17
52	Testing membership in parenthesis languages. Random Structures and Algorithms, 2003, 22, 98-138.	1.1	16
53	Title is missing!. Theory of Computing, 2013, 9, 295-347.	0.5	16
54	Distance Approximation in Bounded-Degree and General Sparse Graphs. Lecture Notes in Computer Science, 2006, , 475-486.	1.3	15

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55	On Learning and Testing Dynamic Environments. Journal of the ACM, 2017, 64, 1-90.	2.2	14
56	Provable and Practical Approximations for the Degree Distribution using Sublinear Graph Samples. , 2018, , .		14
57	On approximating the number of k-cliques in sublinear time. , 2018, , .		14
58	A sublinear bipartiteness tester for bounded degree graphs. , 1998, , .		13
59	Algorithmic Aspects of Property Testing in the Dense Graphs Model. SIAM Journal on Computing, 2011, 40, 376-445.	1.0	13
60	Title is missing!. Theory of Computing, 2011, 7, 155-176.	0.5	13
61	Testing metric properties. Information and Computation, 2003, 187, 155-195.	0.7	12
62	Distributed Maximum Matching in Bounded Degree Graphs. , 2015, , .		12
63	Testing properties of directed graphs: acyclicity and connectivity. Random Structures and Algorithms, 2002, 20, 184-205.	1.1	12
64	Agreement in the presence of faults, on networks of bounded degree. Information Processing Letters, 1996, 57, 329-334.	0.6	11
65	A Simple Online Competitive Adaptation of Lempel-Ziv Compression with Efficient Random Access Support. , 2013, , .		11
66	The Power of an Example. ACM Transactions on Computation Theory, 2016, 8, 1-19.	0.7	11
67	Testing triangle-freeness in general graphs. , 2006, , .		11
68	On the Benefits of Adaptivity in Property Testing of Dense Graphs. Lecture Notes in Computer Science, 2007, , 525-539.	1.3	9
69	Testing problems with sub-learning sample complexity. , 1998, , .		8
70	Testing computability by width-two OBDDs. Theoretical Computer Science, 2012, 420, 64-79.	0.9	8
71	On Sample-Based Testers. , 2015, , .		8
72	On Sample-Based Testers. ACM Transactions on Computation Theory, 2016, 8, 1-54.	0.7	8

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73	Testing Acyclicity of Directed Graphs in Sublinear Time. Lecture Notes in Computer Science, 2000, , 809-820.	1.3	8
74	On the Benefits of Adaptivity in Property Testing ofÂDense Graphs. Algorithmica, 2010, 58, 811-830.	1.3	7
75	On the possibilities and limitations of pseudodeterministic algorithms. , 2013, , .		7
76	Testing metric properties. , 2001, , .		6
77	Finding a dense-core in Jellyfish graphs. Computer Networks, 2008, 52, 2831-2841.	5.1	6
78	Testing Eulerianity and connectivity in directed sparse graphs. Theoretical Computer Science, 2011, 412, 6390-6408.	0.9	6
79	Tight Bounds for Testing Bipartiteness in General Graphs. Lecture Notes in Computer Science, 2003, , 341-353.	1.3	6
80	Constructing near spanning trees with few local inspections. Random Structures and Algorithms, 2017, 50, 183-200.	1.1	5
81	Best of two local models: Centralized local and distributed local algorithms. Information and Computation, 2018, 262, 69-89.	0.7	5
82	On Approximating the Number of k-Cliques in Sublinear Time. SIAM Journal on Computing, 2020, 49, 747-771.	1.0	5
83	Proclaiming Dictators and Juntas or Testing Boolean Formulae. Lecture Notes in Computer Science, 2001, , 273-285.	1.3	5
84	Learning Fallible Deterministic Finite Automata. Machine Learning, 1995, 18, 149-185.	5.4	4
85	Exactly Learning Automata of Small Cover Time. Machine Learning, 1997, 27, 69-96.	5.4	4
86	Tolerant Junta Testing and the Connection to Submodular Optimization and Function Isomorphism. ACM Transactions on Computation Theory, 2019, 11, 1-33.	0.7	4
87	Faster sublinear approximation of the number of k-cliques in low-arboricity graphs. , 2020, , 1467-1478.		4
88	Approximating Average Parameters of Graphs. Lecture Notes in Computer Science, 2006, , 363-374.	1.3	4
89	Algorithmic Aspects of Property Testing in the Dense Graphs Model. Lecture Notes in Computer Science, 2010, , 295-305.	1.3	4
90	Testing Properties of Sparse Images. , 2010, , .		3

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91	Comparing the strength of query types in property testing: The case of k-colorability. Computational Complexity, 2013, 22, 89-135.	0.3	3
92	Testing bounded arboricity. , 2018, , 2081-2092.		3
93	Local Algorithms for Sparse Spanning Graphs. Algorithmica, 2020, 82, 747-786.	1.3	3
94	Property testing of planarity in the CONGEST model. Distributed Computing, 2021, 34, 15-32.	0.8	3
95	Testing Bounded Arboricity. ACM Transactions on Algorithms, 2020, 16, 1-22.	1.0	3
96	The hardness of the Expected Decision Depth problem. Information Processing Letters, 2007, 101, 112-118.	0.6	2
97	On Learning and Testing Dynamic Environments. , 2014, , .		2
98	Testing Properties of Sparse Images. ACM Transactions on Algorithms, 2014, 10, 1-52.	1.0	2
99	Testing Similar Means. SIAM Journal on Discrete Mathematics, 2014, 28, 1699-1724.	0.8	2
100	Tolerant Junta Testing and the Connection to Submodular Optimization and Function Isomorphism. , 2018, , 2113-2132.		2
101	Property Testing of Planarity in the CONGEST model. , 2018, , .		2
102	Comparing the Strength of Query Types in Property Testing: The Case of Testing k-Colorability. Lecture Notes in Computer Science, 2010, , 253-259.	1.3	2
103	Testing of Clustering. SIAM Review, 2004, 46, 285-308.	9.5	1
104	On Approximating the Number of Relevant Variables in a Function. ACM Transactions on Computation Theory, 2013, 5, 1-19.	0.7	1
105	Exponentially Improved Algorithms and Lower Bounds for Testing Signed Majorities. Algorithmica, 2015, 72, 400-429.	1.3	1
106	Sublinear Time Estimation of Degree Distribution Moments: The Arboricity Connection. SIAM Journal on Discrete Mathematics, 2019, 33, 2267-2285.	0.8	1
107	On Testing Convexity and Submodularity. Lecture Notes in Computer Science, 2002, , 11-25.	1.3	1
108	Algorithmic Aspects of Property Testing in the Dense Graphs Model. Lecture Notes in Computer Science, 2009, , 520-533.	1.3	1

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109	Distribution-Free Testing Algorithms for Monomials with a Sublinear Number of Queries. Lecture Notes in Computer Science, 2010, , 531-544.	1.3	1
110	Testing Similar Means. Lecture Notes in Computer Science, 2012, , 629-640.	1.3	1
111	Property Testing: A Learning Theory Perspective. , 2007, , 1-2.		1
112	Strong Lower Bounds for Approximating Distribution Support Size and the Distinct Elements Problem. , 2007, , .		1
113	Finding a Dense-Core in Jellyfish Graphs. , 2007, , 29-40.		0
114	Estimating Simple Graph Parameters in Sublinear Time. , 2016, , 650-653.		0
115	The Boolean rank of the uniform intersection matrix and a family of its submatrices. Linear Algebra and Its Applications, 2019, 574, 67-83.	0.9	0
116	Property Testing of the Boolean and Binary Rank. Theory of Computing Systems, 2021, 65, 1193-1210.	1.1	0
117	Estimating Simple Graph Parameters in Sublinear Time. , 2015, , 1-5.		0
118	Testing Bipartiteness of Graphs in Sublinear Time. , 2015, , 1-5.		0
119	Property Testing. , 2015, , 1181-1184.		0
120	Testing Bipartiteness in the Dense-Graph Model. , 2016, , 2212-2216.		0
121	Testing Bipartiteness of Graphs in Sublinear Time. , 2016, , 2216-2219.		0
122	Sublinear-Time Algorithms for Approximating Graph Parameters. Lecture Notes in Computer Science, 2019, , 105-122.	1.3	0
123	The Subgraph Testing Model. ACM Transactions on Computation Theory, 2020, 12, 1-32.	0.7	0
124	On the Relation Between the Relative Earth Mover Distance and the Variation Distance (an Exposition). Lecture Notes in Computer Science, 2020, , 141-151.	1.3	0
125	Optimal Distribution-Free Sample-Based Testing of Subsequence-Freeness with One-Sided Error. ACM Transactions on Computation Theory, 2022, 14, 1-31.	0.7	0