

# Niv Buchbinder

## List of Publications by Year in descending order

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66  
papers

1,861  
citations

516215

16  
h-index

395343

33  
g-index

66  
all docs

66  
docs citations

66  
times ranked

946  
citing authors

#	ARTICLE	IF	CITATIONS
1	The Design of Competitive Online Algorithms via a Primal-Dual Approach. Foundations and Trends in Theoretical Computer Science, 2009, 3, 93-263.	2.0	176
2	Online Primal-Dual Algorithms for Maximizing Ad-Auctions Revenue. , 2007, , 253-264.		154
3	A Tight Linear Time (1/2)-Approximation for Unconstrained Submodular Maximization. SIAM Journal on Computing, 2015, 44, 1384-1402.	0.8	134
4	Online Primal-Dual Algorithms for Covering and Packing. Mathematics of Operations Research, 2009, 34, 270-286.	0.8	117
5	A Tight Linear Time (1/2)-Approximation for Unconstrained Submodular Maximization. , 2012, , .		111
6	The Online Set Cover Problem. SIAM Journal on Computing, 2009, 39, 361-370.	0.8	86
7	A general approach to online network optimization problems. ACM Transactions on Algorithms, 2006, 2, 640-660.	0.9	73
8	Submodular Maximization with Cardinality Constraints. , 2014, , .		62
9	Online Primal-Dual Algorithms for Covering and Packing Problems. Lecture Notes in Computer Science, 2005, , 689-701.	1.0	60
10	Online Submodular Maximization with Preemption. , 2015, , .		57
11	Online Job-Migration for Reducing the Electricity Bill in the Cloud. Lecture Notes in Computer Science, 2011, , 172-185.	1.0	53
12	Improved Bounds for Online Routing and Packing Via a Primal-Dual Approach. , 2006, , .		50
13	A Primal-Dual Randomized Algorithm for Weighted Paging. Journal of the ACM, 2012, 59, 1-24.	1.8	43
14	A Randomized $O(\log^2 k)$ -Competitive Algorithm for Metric Bipartite Matching. Algorithmica, 2014, 68, 390-403.	1.0	40
15	A Polylogarithmic-Competitive Algorithm for the $k$ -Server Problem. , 2011, , .		37
16	Competitive Analysis via Regularization. , 2014, , .		36
17	A Polylogarithmic-Competitive Algorithm for the $k$ -Server Problem. Journal of the ACM, 2015, 62, 1-49.	1.8	32
18	Simplex partitioning via exponential clocks and the multiway cut problem. , 2013, , .		30

#	ARTICLE	IF	CITATIONS
19	Online Make-to-Order Joint Replenishment Model: Primal-Dual Competitive Algorithms. Operations Research, 2013, 61, 1014-1029.	1.2	29
20	Deterministic Algorithms for Submodular Maximization Problems. ACM Transactions on Algorithms, 2018, 14, 1-20.	0.9	29
21	Online Algorithms for Covering and Packing Problems with Convex Objectives. , 2016, , .		25
22	Randomized competitive algorithms for generalized caching. , 2008, , .		24
23	Constrained Submodular Maximization via a Nonsymmetric Technique. Mathematics of Operations Research, 2019, 44, 988-1005.	0.8	24
24	Secretary Problems via Linear Programming. Mathematics of Operations Research, 2014, 39, 190-206.	0.8	22
25	A primal-dual randomized algorithm for weighted paging. , 2007, , .		21
26	Randomized Competitive Algorithms for Generalized Caching. SIAM Journal on Computing, 2012, 41, 391-414.	0.8	19
27	Comparing Apples and Oranges: Query Trade-off in Submodular Maximization. Mathematics of Operations Research, 2017, 42, 308-329.	0.8	19
28	Deterministic $(\hat{\Delta}^{1/2} + \hat{\mu})$ -Approximation for Submodular Maximization over a Matroid. , 2019, , 241-254.		18
29	Secretary Problems via Linear Programming. Lecture Notes in Computer Science, 2010, , 163-176.	1.0	18
30	Frequency capping in online advertising. Journal of Scheduling, 2014, 17, 385-398.	1.3	17
31	Deterministic Algorithms for Submodular Maximization Problems. , 2016, , .		17
32	Dynamic Power Allocation Under Arbitrary Varying Channels – An Online Approach. IEEE/ACM Transactions on Networking, 2012, 20, 477-487.	2.6	16
33	An $O(\log^2 k)$ -Competitive Algorithm for Metric Bipartite Matching. Lecture Notes in Computer Science, 2007, , 522-533.	1.0	16
34	Fair online load balancing. , 2006, , .		15
35	Fair Coin Flipping: Tighter Analysis and the Many-Party Case. , 2017, , .		15
36	Dynamic Power Allocation Under Arbitrary Varying Channels - The Multi-User Case. , 2010, , .		12

#	ARTICLE	IF	CITATIONS
37	Unified Algorithms for Online Learning and Competitive Analysis. Mathematics of Operations Research, 2016, 41, 612-625.	0.8	12
38	Towards the Randomized $k$ -Server Conjecture: A Primal-Dual Approach: (Extended Abstract). , 2010, , .		10
39	Simplex Transformations and the Multiway Cut Problem. , 2017, , .		10
40	Online Submodular Maximization with Preemption. ACM Transactions on Algorithms, 2019, 15, 1-31.	0.9	10
41	Lower and upper bounds on obtaining history independence. Information and Computation, 2006, 204, 291-337.	0.5	9
42	$O$ (depth)-Competitive Algorithm for Online Multi-level Aggregation. , 2017, , .		9
43	$k$ -Servers with a Smile: Online Algorithms via Projections. , 2019, , 98-116.		9
44	Non-cooperative Cost Sharing Games Via Subsidies. Lecture Notes in Computer Science, 2008, , 337-349.	1.0	9
45	Metrical Task Systems and the $k$ -Server Problem on HSTs. Lecture Notes in Computer Science, 2010, , 287-298.	1.0	9
46	Non-Cooperative Cost Sharing Games via Subsidies. Theory of Computing Systems, 2010, 47, 15-37.	0.7	6
47	Online Algorithms for Maximum Cardinality Matching with Edge Arrivals. Algorithmica, 2019, 81, 1781-1799.	1.0	6
48	Online submodular maximization: beating $1/2$ made simple. Mathematical Programming, 2020, 183, 149-169.	1.6	6
49	Incentive Compatible Mult-Unit Combinatorial Auctions: A Primal Dual Approach. Algorithmica, 2015, 72, 167-190.	1.0	5
50	How to Allocate Goods in an Online Market?. Lecture Notes in Computer Science, 2010, , 51-62.	1.0	5
51	Competitive Algorithms for Restricted Caching and Matroid Caching. Lecture Notes in Computer Science, 2014, , 209-221.	1.0	5
52	Simplex Partitioning via Exponential Clocks and the Multiway-Cut Problem. SIAM Journal on Computing, 2018, 47, 1463-1482.	0.8	4
53	A Regularization Approach to Metrical Task Systems. Lecture Notes in Computer Science, 2010, , 270-284.	1.0	4
54	Incentives in Online Auctions via Linear Programming. Lecture Notes in Computer Science, 2010, , 106-117.	1.0	4

#	ARTICLE	IF	CITATIONS
55	Frequency Capping in Online Advertising. Lecture Notes in Computer Science, 2011, , 147-158.	1.0	4
56	Secretary problems and incentives via linear programming. , 2009, 8, 1-5.		3
57	A simple algorithm for the multiway cut problem. Operations Research Letters, 2019, 47, 587-593.	0.5	3
58	Online $k$ -Taxi via Double Coverage and Time-Reverse Primal-Dual. Lecture Notes in Computer Science, 2021, , 15-29.	1.0	3
59	Online Submodular Maximization: Beating $1/2$ Made Simple. Lecture Notes in Computer Science, 2019, , 101-114.	1.0	3
60	Fair online load balancing. Journal of Scheduling, 2013, 16, 117-127.	1.3	2
61	Comparing Apples and Oranges: Query Tradeoff in Submodular Maximization. , 2015, , .		2
62	How to Allocate Goods in an Online Market?. Algorithmica, 2016, 74, 589-601.	1.0	1
63	Approximation Algorithms for Online Weighted Rank Function Maximization under Matroid Constraints. Lecture Notes in Computer Science, 2012, , 145-156.	1.0	1
64	Simplex Transformations and the Multiway Cut Problem. Mathematics of Operations Research, 2021, 46, 757-771.	0.8	0
65	A Primal-Dual Randomized Algorithm for Weighted Paging. , 2007, , .		0
66	Online $k$ -taxi via Double Coverage and time-reverse primal-dual. Mathematical Programming, 0, , .	1.6	0