Asaf Cohen

List of Publications by Year
in descending order

70 papers	472 citations	840776 11 h-index	839539 18 g-index
71 all docs	71 docs citations	71 times ranked	397 citing authors

#	Article	IF	Citations
1	Electrical Network Frequency (ENF) Maximum-Likelihood Estimation Via a Multitone Harmonic Model. IEEE Transactions on Information Forensics and Security, 2013, 8, 744-753.	6.9	47
2	Why Botnets Work: Distributed Brute-Force Attacks Need No Synchronization. IEEE Transactions on Information Forensics and Security, 2019, 14, 2288-2299.	6.9	36
3	Lower Bounds on the Error Probability of Block Codes Based on Improvements on de Caen's Inequality. IEEE Transactions on Information Theory, 2004, 50, 290-310.	2.4	30
4	Universal Randomized Guessing With Application to Asynchronous Decentralized Brute–Force Attacks. IEEE Transactions on Information Theory, 2020, 66, 114-129.	2.4	27
5	Traffic Classification Based on Zero-Length Packets. IEEE Transactions on Network and Service Management, 2018, 15, 1049-1062.	4.9	22
6	Efficient Data Collection Over Multiple Access Wireless Sensors Network. IEEE/ACM Transactions on Networking, 2020, 28, 491-504.	3.8	21
7	Wiretap Channel With Causal State Information and Secure Rate-Limited Feedback. IEEE Transactions on Communications, 2016, 64, 1192-1203.	7.8	20
8	Multi-Antenna Jamming in Covert Communication. IEEE Transactions on Communications, 2021, 69, 4644-4658.	7.8	19
9	Scanning and Sequential Decision Making for Multidimensional Data–Part II: The Noisy Case. IEEE Transactions on Information Theory, 2008, 54, 5609-5631.	2.4	15
10	Distributed Inter-Cell Interference Mitigation Via Joint Scheduling and Power Control Under Noise Rise Constraints. IEEE Transactions on Wireless Communications, 2014, 13, 3464-3477.	9.2	15
11	Distributed Hypothesis Testing Under Privacy Constraints. , 2018, , .		12
12	Scanning and Sequential Decision Making for Multidimensional Data–Part I: The Noiseless Case. IEEE Transactions on Information Theory, 2007, 53, 3001-3020.	2.4	11
13	Capacity of Distributed Opportunistic Scheduling in Nonhomogeneous Networks. IEEE Transactions on Information Theory, 2014, 60, 7231-7247.	2.4	10
14	Secure Group Testing. , 2016, , .		10
15	Multi-Antenna Jamming in Covert Communication. , 2019, , .		10
16	Secure Multi-Source Multicast. IEEE Transactions on Communications, 2019, 67, 708-723.	7.8	10
17	On networks with side information. , 2009, , .		9
18	Centralized vs Decentralized Targeted Brute-Force Attacks: Guessing With Side-Information. IEEE Transactions on Information Forensics and Security, 2020, 15, 3749-3759.	6.9	9

#	Article	IF	Citations
19	Centralized vs decentralized multi-agent guesswork. , 2017, , .		8
20	Coded unicast downstream traffic in a wireless network: analysis and WiFi implementation. Eurasip Journal on Advances in Signal Processing, 2013, 2013, .	1.7	7
21	On secrecy rates and outage in multi-user multi-eavesdroppers MISO systems. , 2016, , .		7
22	The Ergodic Capacity of the Multiple Access Channel Under Distributed Scheduling - Order Optimality of Linear Receivers. IEEE Transactions on Information Theory, 2018, 64, 5898-5919.	2.4	7
23	Performance Analysis of Opportunistic Distributed Scheduling In Multi-User Systems. IEEE Transactions on Communications, 2018, , 1-1.	7.8	7
24	Privacy-Aware Distributed Hypothesis Testing. Entropy, 2020, 22, 665.	2.2	7
25	Compute-and-Forward in Large Relaying Systems: Limitations and Asymptotically Optimal Scheduling. IEEE Transactions on Information Theory, 2021, 67, 6243-6265.	2.4	7
26	Network Coding Based Information Spreading in Dynamic Networks With Correlated Data. IEEE Journal on Selected Areas in Communications, 2015, 33, 213-224.	14.0	6
27	Coded Retransmission in Wireless Networks Via Abstract MDPs: Theory and Algorithms. IEEE Transactions on Wireless Communications, 2016, 15, 4292-4306.	9.2	6
28	SINR diagram with interference cancellation. Ad Hoc Networks, 2017, 54, 1-16.	5.5	5
29	Rate vs. Covertness for the Packet Insertion Problem. , 2018, , .		5
30	Secure Group Testing. IEEE Transactions on Information Forensics and Security, 2021, 16, 4003-4018.	6.9	5
31	Network coded gossip with correlated data. , 2012, , .		4
32	Capacity of distributed opportunistic scheduling in heterogeneous networks. , 2012, , .		4
33	Botnet identification via universal anomaly detection. , 2014, , .		4
34	When physics meets signal processing: Image and video denoising based on Ising theory. Signal Processing: Image Communication, 2015, 34, 14-21.	3.2	4
35	Lossless Coding of Correlated Sources With Actions. IEEE Transactions on Information Theory, 2017, 63, 1237-1252.	2.4	4
36	Maximizing Miss Detection for Covert Communication Under Practical Constraints. , 2018, , .		4

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37	Anomaly Detection for Individual Sequences with Applications in Identifying Malicious Tools. Entropy, 2020, 22, 649.	2.2	4
38	Universal Scanning and Sequential Decision Making for Multidimensional Data. , 2006, , .		3
39	Efficient distributed source coding for multiple receivers via matrix sparsification. , 2011, , .		3
40	Efficient and Universal Corruption Resilient Fountain Codes. IEEE Transactions on Communications, 2013, 61, 4058-4066.	7.8	3
41	Image restoration via ising theory and automatic noise estimation. , 2013, , .		3
42	Coded retransmission in wireless networks via abstract MDPs: Theory and algorithms. , 2015, , .		3
43	Rate analysis of distributed multiuser MIMO protocols for the 802.11ac. , 2016, , .		3
44	Capacity of wireless systems under distributed scheduling of time-dependent users. , 2014, , .		2
45	Network Coding Schemes for Data Exchange Networks With Arbitrary Transmission Delays. IEEE/ACM Transactions on Networking, 2017, 25, 1293-1309.	3.8	2
46	Individually-secure multi-source multicast. , 2017, , .		2
47	Linearly representable entropy vectors and their relation to network coding solutions. , 2009, , .		1
48	MAC capacity under distributed scheduling of multiple users and linear decorrelation. , 2013, , .		1
49	Lossless coding of correlated sources with actions in acyclic directed networks. , 2014, , .		1
50	Random delay in network coding for bidirectional relaying. , 2014, , .		1
51	The necessity of scheduling in compute-and-forward. , 2017, , .		1
52	Secrecy Rates and Outage in Multi-User Multi-Eavesdropper Broadcast Channel. , 2018, , .		1
53	Secure Adaptive Group Testing. , 2018, , .		1
54	Universal Randomized Guessing with Application to Asynchronous Decentralized Brute—Force Attacks. , 2019, , .		1

#	Article	IF	Citations
55	On the Outage Probability of Distributed MAC With ZF Detection. IEEE Transactions on Communications, 2021, 69, 2398-2412.	7.8	1
56	Asymptotically Optimal Scheduling for Compute-and-Forward. , 2018, , .		1
57	Universal Scanning of Mixing Random Fields and the Performance of the Peano-Hilbert Scan. , 2006, , .		0
58	Scanning, Filtering and Prediction for Random Fields Corrupted by Gaussian Noise. , 2007, , .		0
59	Scanning and Sequential Decision Making for Multidimensional Data. , 2007, , .		0
60	Correlated sources with actions. , 2013, , .		0
61	The capacity of the Multiple Access Channel under distributed scheduling and MMSE decoding. , 2014, , .		0
62	Sensor networks: From dependence analysis via matroid bases to online synthesis. Theoretical Computer Science, 2014, 553, 2-17.	0.9	0
63	Scaling laws for reliable data dissemination in shared loss multicast trees. , 2015, , .		0
64	Performance analysis for multi-user systems under distributed opportunistic scheduling. , 2015, , .		0
65	ACK utilization for traffic classification. , 2016, , .		0
66	An SMDP approach to optimal PHY configuration in wireless networks. , 2017, , .		0
67	On the Outage Probability of Distributed MAC with ZF Detection. , 2018, , .		0
68	Analysis of Different Approaches to Distributed Multiuser MIMO in the 802.11ac. IEEE Transactions on Mobile Computing, 2020, 19, 2548-2561.	5.8	0
69	Optimal PHY Configuration in Wireless Networks. IEEE/ACM Transactions on Networking, 2020, 28, 2601-2614.	3.8	0
70	Private Information Retrieval Over Gaussian MAC. IEEE Transactions on Information Theory, 2021, 67, 5404-5419.	2.4	0