Oliver Kosut

List of Publications by Year
in descending order

55 papers	1,377 citations	933447 10 h-index	752698 20 g-index
55 all docs	55 docs citations	55 times ranked	1281 citing authors

#	Article	IF	Citations
1	Malicious Data Attacks on the Smart Grid. IEEE Transactions on Smart Grid, 2011, 2, 645-658.	9.0	637
2	Vulnerability Analysis and Consequences of False Data Injection Attack on Power System State Estimation. IEEE Transactions on Power Systems, 2016, 31, 3864-3872.	6.5	189
3	On the Dispersions of Three Network Information Theory Problems. IEEE Transactions on Information Theory, 2014, 60, 881-903.	2.4	75
4	Can Attackers With Limited Information Exploit Historical Data to Mount Successful False Data Injection Attacks on Power Systems?. IEEE Transactions on Power Systems, 2018, 33, 4775-4786.	6.5	53
5	Tunable Measures for Information Leakage and Applications to Privacy-Utility Tradeoffs. IEEE Transactions on Information Theory, 2019, 65, 8043-8066.	2.4	46
6	Cyber attacks on AC state estimation: Unobservability and physical consequences. , 2014, , .		38
7	Asymptotics and Non-Asymptotics for Universal Fixed-to-Variable Source Coding. IEEE Transactions on Information Theory, 2017, 63, 3757-3772.	2.4	24
8	Polytope Codes Against Adversaries in Networks. IEEE Transactions on Information Theory, 2014, 60, 3308-3344.	2.4	22
9	Maximum Distortion Attacks in Electricity Grids. IEEE Transactions on Smart Grid, 2016, 7, 2007-2015.	9.0	22
10	False data injection attacks on power system state estimation with limited information. , 2016, , .		20
11	On information-theoretic privacy with general distortion cost functions. , 2017, , .		16
12	Three Variants of Differential Privacy: Lossless Conversion and Applications. IEEE Journal on Selected Areas in Information Theory, 2021, 2, 208-222.	2.5	16
13	Universal fixed-to-variable source coding in the finite blocklength regime. , 2013, , .		15
14	Distributed Source Coding in the Presence of Byzantine Sensors. IEEE Transactions on Information Theory, 2008, 54, 2550-2565.	2.4	13
15	New results on third-order coding rate for universal fixed-to-variable source coding. , 2014, , .		11
16	Evaluating power system vulnerability to false data injection attacks via scalable optimization. , 2016, , .		11
17	Data-Driven Generation of Synthetic Load Datasets Preserving Spatio-Temporal Features. , 2019, , .		10
18	A Better Bound Gives a Hundred Rounds: Enhanced Privacy Guarantees via f-Divergences. , 2020, , .		10

#	Article	IF	Citations
19	Detection and Localization of Load Redistribution Attacks on Large-scale Systems. Journal of Modern Power Systems and Clean Energy, 2022, 10, 361-370.	5.4	10
20	Unobservable False Data Injection Attacks against PMUs: Feasible Conditions and Multiplicative Attacks. , 2018, , .		9
21	Polytope codes for distributed storage in the presence of an active omniscient adversary. , 2013, , .		8
22	$N-1$ Reliability Makes It Difficult for False Data Injection Attacks to Cause Physical Consequences. IEEE Transactions on Power Systems, 2021, 36, 3897-3906.	6.5	8
23	List-Decoding Capacity of the Gaussian Arbitrarily-Varying Channel. Entropy, 2019, 21, 575.	2.2	7
24	Robustness of Maximal Î±-Leakage to Side Information. , 2019, , .		7
25	Synthetic Time-Series Load Data via Conditional Generative Adversarial Networks. , 2021, , .		7
26	Fine Asymptotics for Universal One-to-One Compression of Parametric Sources. IEEE Transactions on Information Theory, 2019, 65, 2442-2458.	2.4	6
27	Capacity of the Gaussian Arbitrarily-Varying Channel with List Decoding. , 2018, , .		5
28	Structured Coding for Authentication in the Presence of a Malicious Adversary. , 2019, , .		5
29	Can Predictive Filters Detect Gradually Ramping False Data Injection Attacks Against PMUs?. , 2019, , .		5
30	Grid Topology Identification With Hidden Nodes via Structured Norm Minimization. , 2022, 6, 1244-1249.		5
31	Detecting load redistribution attacks via support vector models. IET Smart Grid, 2020, 3, 551-560.	2.2	5
32	Sampling From Gaussian Markov Random Fields Using Stationary and Non-Stationary Subgraph Perturbations. IEEE Transactions on Signal Processing, 2015, 63, 576-589.	5.3	4
33	Network equivalence for a joint compound-arbitrarily-varying network model. , 2016, , .		4
34	Equivalence for Networks With Adversarial State. IEEE Transactions on Information Theory, 2017, 63, 4137-4154.	2.4	4
35	Finite Blocklength and Dispersion Bounds for the Arbitrarily- Varying Channel. , 2018, , .		4
36	Variable Packet-Error Coding. IEEE Transactions on Information Theory, 2018, 64, 1530-1547.	2.4	4

#	Article	IF	Citations
37	Strong Converses are Just Edge Removal Properties. IEEE Transactions on Information Theory, 2019, 65, 3315-3339.	2.4	4
38	Authentication with Mildly Myopic Adversaries. , 2020, , .		4
39	Vulnerability Assessment of Large-scale Power Systems to False Data Injection Attacks. , 2020, , .		4
40	Sampling from Gaussian graphical models using subgraph perturbations. , 2013, , .		3
41	A new Type Size code for universal one-to-one compression of parametric sources. , 2016, , .		3
42	On the relationship between edge removal and strong converses. , 2016, , .		3
43	Vulnerability analysis and consequences of false data injection attack on power system state estimation. , 2017, , .		3
44	Maximal Î±-Leakage and its Properties. , 2020, , .		3
45	Authentication and Partial Message Correction over Adversarial Multiple-Access Channels. , 2020, , .		3
46	A Second-Order Converse Bound for the Multiple-Access Channel via Wringing Dependence. IEEE Transactions on Information Theory, 2022, 68, 3552-3584.	2.4	3
47	On the fine asymptotics of information theoretic privacy. , 2016, , .		2
48	Dispersion of the discrete arbitrarily-varying channel with limited shared randomness. , 2017, , .		2
49	Evaluating Multiple Guesses by an Adversary via a Tunable Loss Function. , 2021, , .		2
50	Decentralized MMSE attacks in electricity grids. , 2016, , .		1
51	A Wringing-Based Proof of a Second-Order Converse for the Multiple-Access Channel under Maximal Error Probability. , 2021, , .		1
52	Every Bit Counts: Second-Order Analysis of Cooperation in the Multiple-Access Channel. , 2021, , .		1
53	Fundamental limits of universal variable-to-fixed length coding of parametric sources. , 2017, , .		0
54	Corrections to â€œFine Asymptotics for Universal One-to-One Compression of Parametric Sourcesâ€•[Apr 19 2442-2458]. IEEE Transactions on Information Theory, 2019, 65, 4640-4640.	2.4	0

#	Article	IF	Citations
55	Capacity Region of the Gaussian Arbitrarily-Varying Broadcast Channel. , 2020, , .		0