Anand D Sarwate

List of Publications by Year
in descending order

96 papers	**1,793** citations	566801 **15** h-index	395343 **33** g-index
98 all docs	**98** docs citations	**98** times ranked	**1609** citing authors

#	Article	IF	Citations
1	Network Traffic Shaping for Enhancing Privacy in IoT Systems. IEEE/ACM Transactions on Networking, 2022, 30, 1162-1177.	2.6	5
2	Privacy‑preserving quality control of neuroimaging datasets in federated environments. Human Brain Mapping, 2022, 43, 2289-2310.	1.9	7
3	Decentralized Brain Age Estimation Using MRI Data. Neuroinformatics, 2022, 20, 981-990.	1.5	2
4	Quadratically Constrained Myopic Adversarial Channels. IEEE Transactions on Information Theory, 2022, 68, 4901-4948.	1.5	4
5	Low-Rank Phase Retrieval with Structured Tensor Models. , 2022, , .		0
6	Decentralized Multisite VBM Analysis During Adolescence Shows Structural Changes Linked to Age, Body Mass Index, and Smoking: a COINSTAC Analysis. Neuroinformatics, 2021, 19, 553-566.	1.5	11
7	Quantile Multi-Armed Bandits: Optimal Best-Arm Identification and a Differentially Private Scheme. IEEE Journal on Selected Areas in Information Theory, 2021, 2, 534-548.	1.9	4
8	Coordination Through Shared Randomness. IEEE Transactions on Information Theory, 2021, 67, 4948-4974.	1.5	1
9	Sample Complexity Bounds for Dictionary Learning from Vector- and Tensor-Valued Data. , 2021, , 134-162.		2
10	A Correlated Noise-Assisted Decentralized Differentially Private Estimation Protocol, and its Application to fMRI Source Separation. IEEE Transactions on Signal Processing, 2021, 69, 6355-6370.	3.2	5
11	A Minimax Lower Bound for Low-Rank Matrix-Variate Logistic Regression. , 2021, , .		0
12	Learning Mixtures of Separable Dictionaries for Tensor Data: Analysis and Algorithms. IEEE Transactions on Signal Processing, 2020, 68, 33-48.	3.2	7
13	Symmetrizability for Myopic AVCs. , 2020, , .		6
14	High Dimensional Inference With Random Maximum A-Posteriori Perturbations. IEEE Transactions on Information Theory, 2019, 65, 6539-6560.	1.5	2
15	Distributed Differentially-private Canonical Correlation Analysis. , 2019, , .		2
16	Sample Complexity Bounds for Low-Separation-Rank Dictionary Learning. , 2019, , .		2
17	The Interplay of Causality and Myopia in Adversarial Channel Models. , 2019, , .		3
18	Decentralized temporal independent component analysis: Leveraging fMRI data in collaborative settings. NeuroImage, 2019, 186, 557-569.	2.1	10

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19	Minimax Lower Bounds on Dictionary Learning for Tensor Data. IEEE Transactions on Information Theory, 2018, 64, 2706-2726.	1.5	14
20	Quadratically Constrained Myopic Adversarial Channels. , 2018, , .		13
21	Quadratically Constrained Channels with Causal Adversaries. , 2018, , .		5
22	Distributed Differentially Private Algorithms for Matrix and Tensor Factorization. IEEE Journal on Selected Topics in Signal Processing, 2018, 12, 1449-1464.	7.3	16
23	Improved Algorithms for Differentially Private Orthogonal Tensor Decomposition. , 2018, , .		4
24	Defending Against Packet-Size Side-Channel Attacks in Iot Networks. , 2018, , .		7
25	Differentially Private Distributed Principal Component Analysis. , 2018, , .		17
26	Coordination Using Individually Shared Randomness. , 2018, , .		1
27	Identifiability of Kronecker-Structured Dictionaries for Tensor Data. IEEE Journal on Selected Topics in Signal Processing, 2018, 12, 1047-1062.	7.3	11
28	Social Learning and Distributed Hypothesis Testing. IEEE Transactions on Information Theory, 2018, 64, 6161-6179.	1.5	69
29	Robust Privacy-Utility Tradeoffs Under Differential Privacy and Hamming Distortion. IEEE Transactions on Information Forensics and Security, 2018, 13, 2816-2830.	4.5	36
30	Using Noisy Binary Search for Differentially Private Anomaly Detection. Lecture Notes in Computer Science, 2018, , 20-37.	1.0	6
31	Data-Dependent Convergence for Consensus Stochastic Optimization. IEEE Transactions on Automatic Control, 2017, 62, 4483-4498.	3.6	9
32	Decentralized independent vector analysis. , 2017, , .		10
33	Sample complexity bounds for dictionary learning of tensor data. , 2017, , .		6
34	A Unified Optimization Approach for Sparse Tensor Operations on GPUs. , 2017, , .		41
35	Differentially Private Noisy Search with Applications to Anomaly Detection (Abstract). , 2017, , .		1
36	STARK: Structured dictionary learning through rank-one tensor recovery. , 2017, , .		12

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37	Identification of kronecker-structured dictionaries: An asymptotic analysis. , 2017, , .		2
38	Differentially-private canonical correlation analysis. , 2017, , .		3
39	COINSTAC: Decentralizing the future of brain imaging analysis. F1000Research, 2017, 6, 1512.	0.8	26
40	COINSTAC: A Privacy Enabled Model and Prototype for Leveraging and Processing Decentralized Brain Imaging Data. Frontiers in Neuroscience, 2016, 10, 365.	1.4	73
41	Privacy-preserving source separation for distributed data using independent component analysis. , 2016, , .		6
42	Data-weighted ensemble learning for privacy-preserving distributed learning. , 2016, , .		6
43	Differentially Private Online Active Learning with Applications to Anomaly Detection. , 2016, , .		10
44	Optimal differential privacy mechanisms under Hamming distortion for structured source classes. , 2016, , .		8
45	Data-dependent bounds on network gradient descent. , 2016, , .		1
46	Symmetric matrix perturbation for differentially-private principal component analysis. , 2016, , .		9
47	Minimax lower bounds for Kronecker-structured dictionary learning. , 2016, , .		13
48	Analysis of a privacy-preserving PCA algorithm using random matrix theory. , 2016, , .		6
49	A bit of delay is sufficient and stochastic encoding is necessary to overcome online adversarial erasures. , 2016, , .		9
50	Randomized requantization with local differential privacy. , 2016, , .		30
51	Privacy, security, and the public health researcher in the era of electronic health record research. Online Journal of Public Health Informatics, 2016, 8, e207.	0.4	2
52	Generalized opinion dynamics from local optimization rules. , 2015, , .		0
53	Distributed proportional stochastic coordinate descent with social sampling. , 2015, , .		1
54	Large scale collaboration with autonomy: Decentralized data ICA. , 2015, , .		27

#	Article	IF	Citations
55	Active dictionary learning for image representation. , 2015, , .		1
56	Distributed Learning of Distributions via Social Sampling. IEEE Transactions on Automatic Control, 2015, 60, 34-45.	3.6	12
57	Designing Incentive Schemes for Privacy-Sensitive Users. Journal of Privacy and Confidentiality, 2015, 7, .	1.1	3
58	Learning from Data with Heterogeneous Noise using SGD. JMLR Workshop and Conference Proceedings, 2015, 2015, 894-902.	1.4	2
59	Sharing privacy-sensitive access to neuroimaging and genetics data: a review and preliminary validation. Frontiers in Neuroinformatics, 2014, 8, 35.	1.3	51
60	A rate-disortion perspective on local differential privacy. , 2014, , .		28
61	Tradeoffs for task parallelization in distributed optimization. , 2014, , .		0
62	Redundancy of Exchangeable Estimators. Entropy, 2014, 16, 5339-5357.	1.1	2
63	Upper Bounds on the Capacity of Binary Channels With Causal Adversaries. IEEE Transactions on Information Theory, 2013, 59, 3753-3763.	1.5	27
64	Stochastic gradient descent with differentially private updates. , 2013, , .		226
65	Risk-limiting Audits and the Margin of Victory in Nonplurality Elections. Statistics, Politics, and Policy, 2013, 4, .	0.2	6
66	Signal Processing and Machine Learning with Differential Privacy: Algorithms and Challenges for Continuous Data. IEEE Signal Processing Magazine, 2013, 30, 86-94.	4.6	128
67	Assisted sampling of correlated sources. , 2013, , .		2
68	Privacy Technology to Support Data Sharing for Comparative Effectiveness Research. Medical Care, 2013, 51, S58-S65.	1.1	30
69	Protecting count queries in study design. Journal of the American Medical Informatics Association: JAMIA, 2012, 19, 750-757.	2.2	22
70	Improved upper bounds on the capacity of binary channels with causal adversaries. , 2012, , .		14
71	An AVC perspective on correlated jamming. , 2012, , .		10
72	Distributed learning from social sampling. , 2012, , .		4

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73	Merging opinions by social sampling of posteriors. , 2012, , .		0
74	The Impact of Mobility on Gossip Algorithms. IEEE Transactions on Information Theory, 2012, 58, 1731-1742.	1.5	38
75	List-Decoding for the Arbitrarily Varying Channel Under State Constraints. IEEE Transactions on Information Theory, 2012, 58, 1372-1384.	1.5	15
76	Opinion dynamics and distributed learning of distributions. , 2011, , .		7
77	Differentially Private Empirical Risk Minimization. Journal of Machine Learning Research, 2011, 12, 1069-1109.	62.4	212
78	Zero-Rate Feedback Can Achieve the Empirical Capacity. IEEE Transactions on Information Theory, 2010, 56, 25-39.	1.5	25
79	Rateless Codes for AVC Models. IEEE Transactions on Information Theory, 2010, 56, 3105-3114.	1.5	14
80	Coding against delayed adversaries. , 2010, , .		18
81	Linear strategies for the Gaussian MAC with user cooperation. , 2010, , .		0
82	A little feedback can simplify sensor network cooperation. IEEE Journal on Selected Areas in Communications, 2010, 28, 1159-1168.	9.7	3
83	Coding against myopic adversaries. , 2010, , .		26
84	Gossip and consensus in mobile networks. , 2009, , .		0
85	Some observations on limited feedback for multiaccess channels. , 2009, , .		6
86	Reaching consensus in wireless networks with probabilistic broadcast. , 2009, , .		19
87	Broadcast gossip algorithms: Design and analysis for consensus. , 2008, , .		22
88	Geographic Gossip: Efficient Averaging for Sensor Networks. IEEE Transactions on Signal Processing, 2008, 56, 1205-1216.	3.2	146
89	Arbitrarily dirty paper coding and applications. , 2008, , .		7
90	Adversarial interference models for multiantenna cooperative systems. , 2008, , .		0

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91	Using zero-rate feedback on binary additive channels with individual noise sequences. , 2007, , .		9
92	Rateless coding with partial CSI at the decoder. , 2007, , .		3
93	Channels with nosy "noise". , 2007, , .		8
94	Spatial Filtering in Sensor Networks with Computation Codes. , 2007, , .		4
95	Exact emulation of a priority queue with a switch and delay lines. Queueing Systems, 2006, 53, 115-125.	0.6	52
96	Randomization bounds on Gaussian arbitrarily varying channels. , 2006, , .		6