Ramji Venkataramanan

List of Publications by Year
in descending order

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32	433	687363 13	752698 20
papers	citations	h-index	g-index

32	32	32	243
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Capacity-Achieving Sparse Superposition Codes via Approximate Message Passing Decoding. IEEE Transactions on Information Theory, 2017, 63, 1476-1500.	2.4	71
2	Source Coding With Feed-Forward: Rate-Distortion Theorems and Error Exponents for a General Source. IEEE Transactions on Information Theory, 2007, 53, 2154-2179.	2.4	57
3	Finite Sample Analysis of Approximate Message Passing Algorithms. IEEE Transactions on Information Theory, 2018, 64, 7264-7286.	2.4	30
4	An Achievable Rate Region for the Broadcast Channel With Feedback. IEEE Transactions on Information Theory, 2013, 59, 6175-6191.	2.4	28
5	Techniques for Improving the Finite Length Performance of Sparse Superposition Codes. IEEE Transactions on Communications, 2018, 66, 905-917.	7.8	24
6	Low-Complexity Interactive Algorithms for Synchronization From Deletions, Insertions, and Substitutions. IEEE Transactions on Information Theory, 2015, 61, 5670-5689.	2.4	22
7	Achievable Rates for Channels With Deletions and Insertions. IEEE Transactions on Information Theory, 2013, 59, 6990-7013.	2.4	21
8	Lossy Compression via Sparse Linear Regression: Computationally Efficient Encoding and Decoding. IEEE Transactions on Information Theory, 2014, 60, 3265-3278.	2.4	21
9	Estimation of low-rank matrices via approximate message passing. Annals of Statistics, 2021, 49, .	2.6	20
10	A New Achievable Rate Region for the Multiple-Access Channel With Noiseless Feedback. IEEE Transactions on Information Theory, 2011, 57, 8038-8054.	2.4	15
11	The Error Probability of Sparse Superposition Codes With Approximate Message Passing Decoding. IEEE Transactions on Information Theory, 2019, 65, 3278-3303.	2.4	14
12	Capacity-Achieving Spatially Coupled Sparse Superposition Codes With AMP Decoding. IEEE Transactions on Information Theory, 2021, 67, 4446-4484.	2.4	14
13	Estimation of frequency offset using warped discrete-Fourier transform. Signal Processing, 2006, 86, 250-256.	3.7	13
14	Coding for Segmented Edit Channels. IEEE Transactions on Information Theory, 2018, 64, 3086-3098.	2.4	12
15	Spatially Coupled Sparse Regression Codes: Design and State Evolution Analysis. , 2018, , .		12
16	Lossy Compression via Sparse Linear Regression: Performance Under Minimum-Distance Encoding. IEEE Transactions on Information Theory, 2014, 60, 3254-3264.	2.4	10
17	Efficient Systematic Encoding of Non-binary VT Codes. , 2018, , .		9
18	On Computing the Feedback Capacity of Channels and the Feed-Forward Rate-Distortion Function of Sources. IEEE Transactions on Communications, 2010, 58, 1889-1896.	7.8	7

#	Article	IF	Citations
19	Lossy compression via sparse linear regression: Computationally efficient encoding and decoding. , 2013, , .		6
20	The error exponent of sparse regression codes with AMP decoding. , 2017, , .		6
21	Modulated Sparse Superposition Codes for the Complex AWGN Channel. IEEE Transactions on Information Theory, 2021, 67, 4385-4404.	2.4	5
22	Near-Optimal Coding for Many-User Multiple Access Channels. IEEE Journal on Selected Areas in Information Theory, 2022, 3, 21-36.	2.5	3
23	Rewritable Storage Channels with Hidden State. IEEE Journal on Selected Areas in Communications, 2014, 32, 815-824.	14.0	2
24	The Rate-Distortion Function and Excess-Distortion Exponent of Sparse Regression Codes With Optimal Encoding. IEEE Transactions on Information Theory, 2017, 63, 5228-5243.	2.4	2
25	Cluster-Seeking Jamesâ€“Stein Estimators. IEEE Transactions on Information Theory, 2018, 64, 853-874.	2.4	2
26	Spatially Coupled Sparse Regression Codes with Sliding Window AMP Decoding. , 2019, , .		2
27	Multilayer Codes for Synchronization From Deletions and Insertions. IEEE Transactions on Information Theory, 2021, 67, 3342-3359.	2.4	2
28	Capacity-achieving sparse regression codes via spatial coupling. , 2018, , .		1
29	Modulated Sparse Regression Codes. , 2020, , .		1
30	Optimal Combination of Linear and Spectral Estimators for Generalized Linear Models. Foundations of Computational Mathematics, 2022, 22, 1513-1566.	2.5	1
31	Improved capacity lower bounds for channels with deletions and insertions. , 2013, , .		0
32	Empirical Bayes estimators for high-dimensional sparse vectors. Information and Inference, 0, , .	1.6	0