Viveck R Cadambe

List of Publications by Year
in descending order

33 papers	5,648 citations	623734 14 h-index	996975 15 g-index
33 all docs	33 docs citations	33 times ranked	1973 citing authors

#	Article	IF	Citations
1	Interference Alignment and Degrees of Freedom of the K-User Interference Channel. IEEE Transactions on Information Theory, 2008, 54, 3425-3441.	2.4	2,551
2	A Distributed Numerical Approach to Interference Alignment and Applications to Wireless Interference Networks. IEEE Transactions on Information Theory, 2011, 57, 3309-3322.	2.4	833
3	Approaching the Capacity of Wireless Networks through Distributed Interference Alignment. , 2008, , .		595
4	Interference Alignment and the Degrees of Freedom of Wireless X Networks. IEEE Transactions on Information Theory, 2009, 55, 3893-3908.	2.4	335
5	Interference Alignment With Asymmetric Complex Signalingâ€"Settling the HÃ¸st-Madsenâ€"Nosratinia Conjecture. IEEE Transactions on Information Theory, 2010, 56, 4552-4565.	2.4	190
6	Degrees of Freedom of Wireless Networks With Relays, Feedback, Cooperation, and Full Duplex Operation. IEEE Transactions on Information Theory, 2009, 55, 2334-2344.	2.4	182
7	Asymptotic Interference Alignment for Optimal Repair of MDS Codes in Distributed Storage. IEEE Transactions on Information Theory, 2013, 59, 2974-2987.	2.4	146
8	Interference Alignment on the Deterministic Channel and Application to Fully Connected Gaussian Interference Networks. IEEE Transactions on Information Theory, 2009, 55, 269-274.	2.4	120
9	Repair Optimal Erasure Codes Through Hadamard Designs. IEEE Transactions on Information Theory, 2013, 59, 3021-3037.	2.4	116
10	Index Codingâ€"An Interference Alignment Perspective. IEEE Transactions on Information Theory, 2014, 60, 5402-5432.	2.4	112
11	Parallel Gaussian Interference Channels Are Not Always Separable. IEEE Transactions on Information Theory, 2009, 55, 3983-3990.	2.4	62
12	Interference Alignment and the Generalized Degrees of Freedom of the X Channel. IEEE Transactions on Information Theory, 2012, 58, 5130-5150.	2.4	60
13	Repair optimal erasure codes through hadamard designs. , 2011, , .		52
14	Expanding the Compute-and-Forward Framework: Unequal Powers, Signal Levels, and Multiple Linear Combinations. IEEE Transactions on Information Theory, 2016, 62, 4879-4909.	2.4	43
15	Degrees of freedom of wireless X networks. , 2008, , .		39
16	Degrees of Freedom of Wireless Networks - What a Difference Delay Makes. Conference Record of the Asilomar Conference on Signals, Systems and Computers, 2007, , .	0.0	31
17	Integer-forcing interference alignment. , 2013, , .		25
18	The capacity region of a class of deterministic Z channels. , 2009, , .		19

#	Article	IF	Citations
19	Can feedback, cooperation, relays and full duplex operation increase the degrees of freedom of wireless networks?. , 2008, , .		18
20	An Edge Reduction Lemma for linear network coding and an application to two-unicast networks. , 2012, , .		17
21	A coded shared atomic memory algorithm for message passing architectures. Distributed Computing, 2017, 30, 49-73.	0.8	17
22	Multiple Access Outerbounds and the Inseparability of Parallel Interference Channels. , 2008, , .		16
23	Minimum Repair Bandwidth for Exact Regeneration in Distributed Storage. , 2010, , .		16
24	Interference alignment and the generalized degrees of freedom of the X channel. , 2009, , .		15
25	A Coded Shared Atomic Memory Algorithm for Message Passing Architectures. , 2014, , .		14
26	Sum-capacity and the unique separability of the parallel Gaussian MAC-Z-BC network. , 2010, , .		9
27	Generalized degrees of freedom of the (noisy) X channel. , 2008, , .		4
28	Duality and stability regions of multi-rate broadcast and multiple access networks. , 2008, , .		4
29	Alignment-Based Network Coding for Two-Unicast-Z Networks. IEEE Transactions on Information Theory, 2016, 62, 3183-3211.	2.4	4
30	Interference alignment via random codes and he capacity of a class of deterministic interference channels. , 2009, , .		1
31	Tensor product based subspace interference alignment for network coding applications. , 2011, , .		1
32	CassandrEAS: Highly Available and Storage-Efficient Distributed Key-Value Store with Erasure Coding. , 2020, , .		1
33	Fundamental Limits of Erasure-Coded Key-Value Stores With Side Information. IEEE Transactions on Communications, 2020, 68, 4126-4140.	7.8	0