

# Alexandros Dimakis

## List of Publications by Year in descending order

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Version: 2024-02-01

112  
papers

9,688  
citations

201674

27  
h-index

289244

40  
g-index

113  
all docs

113  
docs citations

113  
times ranked

5108  
citing authors

#	ARTICLE	IF	CITATIONS
1	High Dimensional Channel Estimation Using Deep Generative Networks. IEEE Journal on Selected Areas in Communications, 2021, 39, 18-30.	14.0	31
2	Gradient Coding From Cyclic MDS Codes and Expander Graphs. IEEE Transactions on Information Theory, 2020, 66, 7475-7489.	2.4	46
3	Your Local GAN: Designing Two Dimensional Local Attention Mechanisms for Generative Models. , 2020, , .		29
4	Deep Learning Techniques for Inverse Problems in Imaging. IEEE Journal on Selected Areas in Information Theory, 2020, 1, 39-56.	2.5	292
5	Restricted strong convexity implies weak submodularity. Annals of Statistics, 2018, 46, .	2.6	37
6	Aharonovâ€œBohmâ€œinspired tomographic imaging via compressive sensing. IET Microwaves, Antennas and Propagation, 2018, 12, 1890-1894.	1.4	5
7	Coded caching with linear subpacketization is possible using Ruzsa-SzemerÃ©di graphs. , 2017, , .		22
8	Vowel decoding from singleâ€œtrial speechâ€œevoked electrophysiological responses: A featureâ€œbased machine learning approach. Brain and Behavior, 2017, 7, e00665.	2.2	32
9	Recovery of Packet Losses in Wireless Broadcast for Real-Time Applications. IEEE/ACM Transactions on Networking, 2017, 25, 676-689.	3.8	8
10	Entropic Causality and Greedy Minimum Entropy Coupling. , 2017, , .		7
11	Finite-Length Analysis of Caching-Aided Coded Multicasting. IEEE Transactions on Information Theory, 2016, 62, 5524-5537.	2.4	120
12	Distributed Estimation of Graph 4-Profiles. , 2016, , .		23
13	Optimal Locally Repairable Codes and Connections to Matroid Theory. IEEE Transactions on Information Theory, 2016, 62, 6661-6671.	2.4	87
14	Locality and Availability in Distributed Storage. IEEE Transactions on Information Theory, 2016, 62, 4481-4493.	2.4	109
15	Batch Codes Through Dense Graphs Without Short Cycles. IEEE Transactions on Information Theory, 2016, 62, 1592-1604.	2.4	33
16	Auditing for Distributed Storage Systems. IEEE/ACM Transactions on Networking, 2016, 24, 2182-2195.	3.8	6
17	On approximating the sum-rate for multiple-unicasts. , 2015, , .		1
18	Batch codes through dense graphs without short cycles. , 2015, , .		3

#	ARTICLE	IF	CITATIONS
19	Frog\Wild!. Proceedings of the VLDB Endowment, 2015, 8, 874-885.	3.8	16
20	Index Coding With Coded Side-Information. IEEE Communications Letters, 2015, 19, 319-322.	4.1	28
21	Understanding contention-based channels and using them for defense. , 2015, , .		61
22	Beyond Triangles. , 2015, , .		28
23	Graph theory versus minimum rank for index coding. , 2014, , .		30
24	Locality and availability in distributed storage. , 2014, , .		86
25	Finite length analysis of caching-aided coded multicasting. , 2014, , .		21
26	Bounding multiple unicasts through index coding and Locally Repairable Codes. , 2014, , .		30
27	A Repair Framework for Scalar MDS Codes. IEEE Journal on Selected Areas in Communications, 2014, 32, 998-1007.	14.0	38
28	Repairable Fountain Codes. IEEE Journal on Selected Areas in Communications, 2014, 32, 1037-1047.	14.0	26
29	Base-Station Assisted Device-to-Device Communications for High-Throughput Wireless Video Networks. IEEE Transactions on Wireless Communications, 2014, 13, 3665-3676.	9.2	376
30	On codes with availability for distributed storage. , 2014, , .		2
31	Combinatorial QPs via a low-dimensional subspace sampling. , 2014, , .		0
32	Distributed Storage Codes Reduce Latency in Vehicular Networks. IEEE Transactions on Mobile Computing, 2014, 13, 2016-2027.	5.8	22
33	Optimized Markov Chain Monte Carlo for Signal Detection in MIMO Systems: An Analysis of the Stationary Distribution and Mixing Time. IEEE Transactions on Signal Processing, 2014, 62, 4436-4450.	5.3	35
34	Scaling Behavior for Device-to-Device Communications With Distributed Caching. IEEE Transactions on Information Theory, 2014, 60, 4286-4298.	2.4	151
35	On the Delay Advantage of Coding in Packet Erasure Networks. IEEE Transactions on Information Theory, 2014, 60, 2868-2883.	2.4	8
36	Locally Repairable Codes. IEEE Transactions on Information Theory, 2014, 60, 5843-5855.	2.4	222

#	ARTICLE	IF	CITATIONS
37	Instantly decodable network codes for real-time applications. , 2013, , .		78
38	Optimal binary measurement matrices for compressed sensing. , 2013, , .		3
39	Femtocaching and device-to-device collaboration: A new architecture for wireless video distribution. , 2013, 51, 142-149.		584
40	XORing elephants. Proceedings of the VLDB Endowment, 2013, 6, 325-336.	3.8	529
41	FemtoCaching: Wireless Content Delivery Through Distributed Caching Helpers. IEEE Transactions on Information Theory, 2013, 59, 8402-8413.	2.4	1,133
42	Repair Optimal Erasure Codes Through Hadamard Designs. IEEE Transactions on Information Theory, 2013, 59, 3021-3037.	2.4	116
43	Availability and locality in distributed storage. , 2013, , .		3
44	Optimal deterministic compressed sensing matrices. , 2013, , .		12
45	Index coding problem with side information repositories. , 2013, , .		2
46	Optimal locally repairable codes and connections to matroid theory. , 2013, , .		95
47	Distributed storage allocations and a hypergraph conjecture of Erdős. , 2013, , .		3
48	Local graph coloring and index coding. , 2013, , .		72
49	Optimal measurement matrices for neighbor discovery. , 2013, , .		3
50	Wireless video content delivery through coded distributed caching. , 2012, , .		34
51	Device-to-device communications for wireless video delivery. , 2012, , .		10
52	Base-station assisted device-to-device communications for high-throughput wireless video networks. , 2012, , .		55
53	Finding three transmissions is hard. , 2012, , .		9
54	A repair framework for scalar MDS codes. , 2012, , .		5

#	ARTICLE	IF	CITATIONS
55	Bipartite index coding. , 2012, , .		61
56	Device-to-device collaboration through distributed storage. , 2012, , .		49
57	Allocations for heterogenous distributed storage. , 2012, , .		24
58	Distributed storage codes reduce latency in vehicular networks. , 2012, , .		13
59	Repairable Fountain codes. , 2012, , .		8
60	FemtoCaching: Wireless video content delivery through distributed caching helpers. , 2012, , .		548
61	Wireless device-to-device communications with distributed caching. , 2012, , .		98
62	Locally repairable codes. , 2012, , .		175
63	Feedback in the K-user interference channel. , 2012, , .		7
64	Reweighted LP Decoding for LDPC Codes. IEEE Transactions on Information Theory, 2012, 58, 5972-5984.	2.4	4
65	Interference Alignment as a Rank Constrained Rank Minimization. IEEE Transactions on Signal Processing, 2012, 60, 4278-4288.	5.3	110
66	Simple regenerating codes: Network coding for cloud storage. , 2012, , .		138
67	The Impact of Mobility on Gossip Algorithms. IEEE Transactions on Information Theory, 2012, 58, 1731-1742.	2.4	38
68	LDPC Codes for Compressed Sensing. IEEE Transactions on Information Theory, 2012, 58, 3093-3114.	2.4	111
69	Distributed Storage Allocations. IEEE Transactions on Information Theory, 2012, 58, 4733-4752.	2.4	67
70	Wireless video content delivery through distributed caching and peer-to-peer gossiping. , 2011, , .		32
71	Explicit matrices for sparse approximation. , 2011, , .		15
72	Sparse Recovery of Nonnegative Signals With Minimal Expansion. IEEE Transactions on Signal Processing, 2011, 59, 196-208.	5.3	63

#	ARTICLE	IF	CITATIONS
73	Level estimation for sparse reconstruction in discrete tomography. , 2011, , .		1
74	Connectivity and equilibrium in random games. Annals of Applied Probability, 2011, 21, .	1.3	8
75	Local Interference Can Accelerate Gossip Algorithms. IEEE Journal on Selected Topics in Signal Processing, 2011, 5, 876-887.	10.8	23
76	SigSag: Iterative Detection Through Soft Message-Passing. IEEE Journal on Selected Topics in Signal Processing, 2011, 5, 1512-1523.	10.8	26
77	Distributed storage codes through Hadamard designs. , 2011, , .		11
78	Repair optimal erasure codes through hadamard designs. , 2011, , .		52
79	SigSag: Iterative detection through soft message-passing. , 2011, , .		4
80	Distributed storage allocations for optimal delay. , 2011, , .		10
81	Network Coding for Distributed Storage Systems. IEEE Transactions on Information Theory, 2010, 56, 4539-4551.	2.4	1,441
82	Order-Optimal Consensus Through Randomized Path Averaging. IEEE Transactions on Information Theory, 2010, 56, 5150-5167.	2.4	56
83	Gossip Algorithms for Distributed Signal Processing. Proceedings of the IEEE, 2010, 98, 1847-1864.	21.3	659
84	Distributed storage codes meet multiple-access wiretap channels. , 2010, , .		8
85	Iterative weighted $\ell_1$ Optimization for compressed sensing and coding. , 2010, , .		0
86	Interference Alignment as a Rank Constrained Rank Minimization. , 2010, , .		20
87	Security in distributed storage systems by communicating a logarithmic number of bits. , 2010, , .		28
88	Symmetric Allocations for Distributed Storage. , 2010, , .		10
89	MCMC methods for integer least-squares problems. , 2010, , .		1
90	Reweighted LP decoding for LDPC codes. , 2010, , .		3

#	ARTICLE	IF	CITATIONS
91	Rebuilding for array codes in distributed storage systems. , 2010, , .		59
92	Sparse recovery for discrete tomography. , 2010, , .		2
93	Efficient Algorithms for Renewable Energy Allocation to Delay Tolerant Consumers. , 2010, , .		167
94	On the delay advantage of coding in packet erasure networks. , 2010, , .		10
95	Neighborhood gossip: Concurrent averaging through local interference. , 2009, , .		16
96	Near-Optimal Detection in MIMO Systems Using Gibbs Sampling. , 2009, , .		50
97	Nonnegative Compressed Sensing with Minimal Perturbed Expanders. , 2009, , .		5
98	Distributed storage allocation problems. , 2009, , .		19
99	On the delay of network coding over line networks. , 2009, , .		27
100	Reducing repair traffic for erasure coding-based storage via interference alignment. , 2009, , .		129
101	Guessing Facets: Polytope Structure and Improved LP Decoder. IEEE Transactions on Information Theory, 2009, 55, 3479-3487.	2.4	25
102	Gossip and consensus in mobile networks. , 2009, , .		0
103	Reaching consensus in wireless networks with probabilistic broadcast. , 2009, , .		19
104	LP decoding meets LP decoding: A connection between channel coding and compressed sensing. , 2009, , .		28
105	Probabilistic Analysis of Linear Programming Decoding. IEEE Transactions on Information Theory, 2008, 54, 3565-3578.	2.4	50
106	Geographic Gossip: Efficient Averaging for Sensor Networks. IEEE Transactions on Signal Processing, 2008, 56, 1205-1216.	5.3	146
107	Local interference can accelerate gossip algorithms. , 2008, , .		9
108	Unequal Growth Codes: Intermediate Performance and Unequal Error Protection for Video Streaming. , 2007, , .		26

#	ARTICLE	IF	CITATIONS
109	Robust message-passing for statistical inference in sensor networks. , 2007, , .		23
110	Robust Message-Passing for Statistical Inference in Sensor Networks. , 2007, , .		3
111	Geographic gossip. , 2006, , .		122
112	Guessing Facets: Polytope Structure and Improved LP Decoder. , 2006, , .		14