

# 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	Network Coding for Distributed Storage Systems. IEEE Transactions on Information Theory, 2010, 56, 4539-4551.	2.4	1,441
2	FemtoCaching: Wireless Content Delivery Through Distributed Caching Helpers. IEEE Transactions on Information Theory, 2013, 59, 8402-8413.	2.4	1,133
3	Gossip Algorithms for Distributed Signal Processing. Proceedings of the IEEE, 2010, 98, 1847-1864.	21.3	659
4	Femtocaching and device-to-device collaboration: A new architecture for wireless video distribution. , 2013, 51, 142-149.		584
5	FemtoCaching: Wireless video content delivery through distributed caching helpers. , 2012, , .		548
6	XORing elephants. Proceedings of the VLDB Endowment, 2013, 6, 325-336.	3.8	529
7	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
8	Deep Learning Techniques for Inverse Problems in Imaging. IEEE Journal on Selected Areas in Information Theory, 2020, 1, 39-56.	2.5	292
9	Locally Repairable Codes. IEEE Transactions on Information Theory, 2014, 60, 5843-5855.	2.4	222
10	Locally repairable codes. , 2012, , .		175
11	Efficient Algorithms for Renewable Energy Allocation to Delay Tolerant Consumers. , 2010, , .		167
12	Scaling Behavior for Device-to-Device Communications With Distributed Caching. IEEE Transactions on Information Theory, 2014, 60, 4286-4298.	2.4	151
13	Geographic Gossip: Efficient Averaging for Sensor Networks. IEEE Transactions on Signal Processing, 2008, 56, 1205-1216.	5.3	146
14	Simple regenerating codes: Network coding for cloud storage. , 2012, , .		138
15	Reducing repair traffic for erasure coding-based storage via interference alignment. , 2009, , .		129
16	Geographic gossip. , 2006, , .		122
17	Finite-Length Analysis of Caching-Aided Coded Multicasting. IEEE Transactions on Information Theory, 2016, 62, 5524-5537.	2.4	120
18	Repair Optimal Erasure Codes Through Hadamard Designs. IEEE Transactions on Information Theory, 2013, 59, 3021-3037.	2.4	116

#	ARTICLE	IF	CITATIONS
19	LDPC Codes for Compressed Sensing. IEEE Transactions on Information Theory, 2012, 58, 3093-3114.	2.4	111
20	Interference Alignment as a Rank Constrained Rank Minimization. IEEE Transactions on Signal Processing, 2012, 60, 4278-4288.	5.3	110
21	Locality and Availability in Distributed Storage. IEEE Transactions on Information Theory, 2016, 62, 4481-4493.	2.4	109
22	Wireless device-to-device communications with distributed caching. , 2012, , .		98
23	Optimal locally repairable codes and connections to matroid theory. , 2013, , .		95
24	Optimal Locally Repairable Codes and Connections to Matroid Theory. IEEE Transactions on Information Theory, 2016, 62, 6661-6671.	2.4	87
25	Locality and availability in distributed storage. , 2014, , .		86
26	Instantly decodable network codes for real-time applications. , 2013, , .		78
27	Local graph coloring and index coding. , 2013, , .		72
28	Distributed Storage Allocations. IEEE Transactions on Information Theory, 2012, 58, 4733-4752.	2.4	67
29	Sparse Recovery of Nonnegative Signals With Minimal Expansion. IEEE Transactions on Signal Processing, 2011, 59, 196-208.	5.3	63
30	Bipartite index coding. , 2012, , .		61
31	Understanding contention-based channels and using them for defense. , 2015, , .		61
32	Rebuilding for array codes in distributed storage systems. , 2010, , .		59
33	Order-Optimal Consensus Through Randomized Path Averaging. IEEE Transactions on Information Theory, 2010, 56, 5150-5167.	2.4	56
34	Base-station assisted device-to-device communications for high-throughput wireless video networks. , 2012, , .		55
35	Repair optimal erasure codes through hadamard designs. , 2011, , .		52
36	Probabilistic Analysis of Linear Programming Decoding. IEEE Transactions on Information Theory, 2008, 54, 3565-3578.	2.4	50

#	ARTICLE	IF	CITATIONS
37	Near-Optimal Detection in MIMO Systems Using Gibbs Sampling. , 2009, , .		50
38	Device-to-device collaboration through distributed storage. , 2012, , .		49
39	Gradient Coding From Cyclic MDS Codes and Expander Graphs. IEEE Transactions on Information Theory, 2020, 66, 7475-7489.	2.4	46
40	The Impact of Mobility on Gossip Algorithms. IEEE Transactions on Information Theory, 2012, 58, 1731-1742.	2.4	38
41	A Repair Framework for Scalar MDS Codes. IEEE Journal on Selected Areas in Communications, 2014, 32, 998-1007.	14.0	38
42	Restricted strong convexity implies weak submodularity. Annals of Statistics, 2018, 46, .	2.6	37
43	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
44	Wireless video content delivery through coded distributed caching. , 2012, , .		34
45	Batch Codes Through Dense Graphs Without Short Cycles. IEEE Transactions on Information Theory, 2016, 62, 1592-1604.	2.4	33
46	Wireless video content delivery through distributed caching and peer-to-peer gossiping. , 2011, , .		32
47	Vowel decoding from singleâ€œtrial speechâ€œevoked electrophysiological responses: A featureâ€œbased machine learning approach. Brain and Behavior, 2017, 7, e00665.	2.2	32
48	High Dimensional Channel Estimation Using Deep Generative Networks. IEEE Journal on Selected Areas in Communications, 2021, 39, 18-30.	14.0	31
49	Graph theory versus minimum rank for index coding. , 2014, , .		30
50	Bounding multiple unicasts through index coding and Locally Repairable Codes. , 2014, , .		30
51	Your Local GAN: Designing Two Dimensional Local Attention Mechanisms for Generative Models. , 2020, , .		29
52	LP decoding meets LP decoding: A connection between channel coding and compressed sensing. , 2009, , .		28
53	Security in distributed storage systems by communicating a logarithmic number of bits. , 2010, , .		28
54	Index Coding With Coded Side-Information. IEEE Communications Letters, 2015, 19, 319-322.	4.1	28

#	ARTICLE	IF	CITATIONS
55	Beyond Triangles. , 2015, , .		28
56	On the delay of network coding over line networks. , 2009, , .		27
57	Unequal Growth Codes: Intermediate Performance and Unequal Error Protection for Video Streaming. , 2007, , .		26
58	SigSag: Iterative Detection Through Soft Message-Passing. IEEE Journal on Selected Topics in Signal Processing, 2011, 5, 1512-1523.	10.8	26
59	Repairable Fountain Codes. IEEE Journal on Selected Areas in Communications, 2014, 32, 1037-1047.	14.0	26
60	Guessing Facets: Polytope Structure and Improved LP Decoder. IEEE Transactions on Information Theory, 2009, 55, 3479-3487.	2.4	25
61	Allocations for heterogenous distributed storage. , 2012, , .		24
62	Robust message-passing for statistical inference in sensor networks. , 2007, , .		23
63	Local Interference Can Accelerate Gossip Algorithms. IEEE Journal on Selected Topics in Signal Processing, 2011, 5, 876-887.	10.8	23
64	Distributed Estimation of Graph 4-Profiles. , 2016, , .		23
65	Distributed Storage Codes Reduce Latency in Vehicular Networks. IEEE Transactions on Mobile Computing, 2014, 13, 2016-2027.	5.8	22
66	Coded caching with linear subpacketization is possible using Ruzsa-SzemÁ©redi graphs. , 2017, , .		22
67	Finite length analysis of caching-aided coded multicasting. , 2014, , .		21
68	Interference Alignment as a Rank Constrained Rank Minimization. , 2010, , .		20
69	Distributed storage allocation problems. , 2009, , .		19
70	Reaching consensus in wireless networks with probabilistic broadcast. , 2009, , .		19
71	Neighborhood gossip: Concurrent averaging through local interference. , 2009, , .		16
72	FrogWild!. Proceedings of the VLDB Endowment, 2015, 8, 874-885.	3.8	16

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73	Explicit matrices for sparse approximation. , 2011, , .		15
74	Guessing Facets: Polytope Structure and Improved LP Decoder. , 2006, , .		14
75	Distributed storage codes reduce latency in vehicular networks. , 2012, , .		13
76	Optimal deterministic compressed sensing matrices. , 2013, , .		12
77	Distributed storage codes through Hadamard designs. , 2011, , .		11
78	Symmetric Allocations for Distributed Storage. , 2010, , .		10
79	On the delay advantage of coding in packet erasure networks. , 2010, , .		10
80	Distributed storage allocations for optimal delay. , 2011, , .		10
81	Device-to-device communications for wireless video delivery. , 2012, , .		10
82	Local interference can accelerate gossip algorithms. , 2008, , .		9
83	Finding three transmissions is hard. , 2012, , .		9
84	Distributed storage codes meet multiple-access wiretap channels. , 2010, , .		8
85	Connectivity and equilibrium in random games. <i>Annals of Applied Probability</i> , 2011, 21, .	1.3	8
86	Repairable Fountain codes. , 2012, , .		8
87	On the Delay Advantage of Coding in Packet Erasure Networks. <i>IEEE Transactions on Information Theory</i> , 2014, 60, 2868-2883.	2.4	8
88	Recovery of Packet Losses in Wireless Broadcast for Real-Time Applications. <i>IEEE/ACM Transactions on Networking</i> , 2017, 25, 676-689.	3.8	8
89	Feedback in the K-user interference channel. , 2012, , .		7
90	Entropic Causality and Greedy Minimum Entropy Coupling. , 2017, , .		7

#	ARTICLE	IF	CITATIONS
91	Auditing for Distributed Storage Systems. IEEE/ACM Transactions on Networking, 2016, 24, 2182-2195.	3.8	6
92	Nonnegative Compressed Sensing with Minimal Perturbed Expanders. , 2009, , .		5
93	A repair framework for scalar MDS codes. , 2012, , .		5
94	Aharonov&#x2013;Bohm&#x2013;inspired tomographic imaging via compressive sensing. IET Microwaves, Antennas and Propagation, 2018, 12, 1890-1894.	1.4	5
95	SigSag: Iterative detection through soft message-passing. , 2011, , .		4
96	Reweighted LP Decoding for LDPC Codes. IEEE Transactions on Information Theory, 2012, 58, 5972-5984.	2.4	4
97	Robust Message-Passing for Statistical Inference in Sensor Networks. , 2007, , .		3
98	Reweighted LP decoding for LDPC codes. , 2010, , .		3
99	Optimal binary measurement matrices for compressed sensing. , 2013, , .		3
100	Availability and locality in distributed storage. , 2013, , .		3
101	Distributed storage allocations and a hypergraph conjecture of Erd&#x0151;s. , 2013, , .		3
102	Optimal measurement matrices for neighbor discovery. , 2013, , .		3
103	Batch codes through dense graphs without short cycles. , 2015, , .		3
104	Sparse recovery for discrete tomography. , 2010, , .		2
105	Index coding problem with side information repositories. , 2013, , .		2
106	On codes with availability for distributed storage. , 2014, , .		2
107	MCMC methods for integer least-squares problems. , 2010, , .		1
108	Level estimation for sparse reconstruction in discrete tomography. , 2011, , .		1

#	ARTICLE	IF	CITATIONS
109	On approximating the sum-rate for multiple-unicasts. , 2015, , .		1
110	Gossip and consensus in mobile networks. , 2009, , .		0
111	Iterative weighted $\ell_1$ Optimization for compressed sensing and coding. , 2010, , .		0
112	Combinatorial QPs via a low-dimensional subspace sampling. , 2014, , .		0