

Mohammadali Maddahali

List of Publications by Year in descending order

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51
papers

4,219
citations

567281

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526287

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all docs

51
docs citations

51
times ranked

1620
citing authors

#	ARTICLE	IF	CITATIONS
1	Fundamental Limits of Caching. IEEE Transactions on Information Theory, 2014, 60, 2856-2867.	2.4	1,342
2	Decentralized Coded Caching Attains Order-Optimal Memory-Rate Tradeoff. IEEE/ACM Transactions on Networking, 2015, 23, 1029-1040.	3.8	493
3	A Fundamental Tradeoff Between Computation and Communication in Distributed Computing. IEEE Transactions on Information Theory, 2018, 64, 109-128.	2.4	294
4	The Exact Rate-Memory Tradeoff for Caching With Uncoded Prefetching. IEEE Transactions on Information Theory, 2018, 64, 1281-1296.	2.4	236
5	Coded Caching With Nonuniform Demands. IEEE Transactions on Information Theory, 2017, 63, 1146-1158.	2.4	208
6	Hierarchical Coded Caching. IEEE Transactions on Information Theory, 2016, 62, 3212-3229.	2.4	174
7	Online Coded Caching. IEEE/ACM Transactions on Networking, 2016, 24, 836-845.	3.8	164
8	Cache-aided interference channels. , 2015, , .		137
9	Fundamental Limits of Cache-Aided Interference Management. IEEE Transactions on Information Theory, 2017, , 1-1.	2.4	131
10	Straggler Mitigation in Distributed Matrix Multiplication: Fundamental Limits and Optimal Coding. IEEE Transactions on Information Theory, 2020, 66, 1920-1933.	2.4	131
11	Coding for Distributed Fog Computing. , 2017, 55, 34-40.		106
12	Characterizing the Rate-Memory Tradeoff in Cache Networks Within a Factor of 2. IEEE Transactions on Information Theory, 2019, 65, 647-663.	2.4	99
13	Straggler Mitigation in Distributed Matrix Multiplication: Fundamental Limits and Optimal Coding. , 2018, , .		96
14	A Scalable Framework for Wireless Distributed Computing. IEEE/ACM Transactions on Networking, 2017, 25, 2643-2654.	3.8	87
15	vSPACE: VNF Simultaneous Placement, Admission Control and Embedding. IEEE Journal on Selected Areas in Communications, 2018, 36, 542-557.	14.0	58
16	Private function retrieval. , 2018, , .		44
17	The exact rate-memory tradeoff for caching with uncoded prefetching. , 2017, , .		42
18	How to optimally allocate resources for coded distributed computing?. , 2017, , .		41

#	ARTICLE	IF	CITATIONS
19	Characterizing the rate-memory tradeoff in cache networks within a factor of 2. , 2017, , .		35
20	On the degrees of freedom of the compound MISO broadcast channels with finite states. , 2010, , .		32
21	Limited-Sharing Multi-Party Computation for Massive Matrix Operations. , 2018, , .		32
22	Secure Coded Multi-Party Computation for Massive Matrix Operations. IEEE Transactions on Information Theory, 2021, 67, 2379-2398.	2.4	30
23	Entangled Polynomial Coding in Limited-Sharing Multi-Party Computation. , 2018, , .		21
24	Binary Fading Interference Channel With No CSIT. IEEE Transactions on Information Theory, 2017, 63, 3565-3578.	2.4	20
25	Cache-Aided Interference Management in Wireless Cellular Networks. IEEE Transactions on Communications, 2019, 67, 3376-3387.	7.8	20
26	Edge-Facilitated Wireless Distributed Computing. , 2016, , .		18
27	Cache-Aided Interference Channels. IEEE Transactions on Information Theory, 2019, 65, 1714-1724.	2.4	15
28	CodedSketch: A Coding Scheme for Distributed Computation of Approximated Matrix Multiplication. IEEE Transactions on Information Theory, 2021, 67, 4185-4196.	2.4	15
29	Private Sequential Function Computation. , 2019, , .		13
30	Blind Index Coding. IEEE Transactions on Information Theory, 2017, 63, 2076-2097.	2.4	12
31	Private Inner Product Retrieval for Distributed Machine Learning. , 2019, , .		8
32	CodedSketch: Coded Distributed Computation of Approximated Matrix Multiplication. , 2019, , .		8
33	Coded Secure Multi-Party Computation for Massive Matrices with Adversarial Nodes. , 2020, , .		7
34	Fundamental Limits of Distributed Encoding. , 2020, , .		5
35	Compressed Coded Distributed Computing. IEEE Transactions on Communications, 2021, 69, 2773-2783.	7.8	5
36	Optimal Communication-Computation Trade-Off in Heterogeneous Gradient Coding. IEEE Journal on Selected Areas in Information Theory, 2021, 2, 1002-1011.	2.5	5

#	ARTICLE	IF	CITATIONS
37	The Capacity Region of Distributed Multi-User Secret Sharing. IEEE Journal on Selected Areas in Information Theory, 2021, 2, 1057-1071.	2.5	5
38	Multi-Party Proof Generation in QAP-Based zk-SNARKs. IEEE Journal on Selected Areas in Information Theory, 2021, 2, 931-941.	2.5	5
39	Energy efficiency through joint routing and function placement in different modes of SDN/NFV networks. Computer Networks, 2021, 200, 108492.	5.1	4
40	Optimum Transmission Delay for Function Computation in NFV-Based Networks: The Role of Network Coding and Redundant Computing. IEEE Journal on Selected Areas in Communications, 2018, 36, 2233-2245.	14.0	3
41	Fast Temporal Path Localization on Graphs via Multiscale Viterbi Decoding. IEEE Transactions on Signal Processing, 2018, 66, 5588-5603.	5.3	3
42	Private Function Computation. , 2020, , .		3
43	The Discrepancy Attack on Polyshard-ed Blockchains. , 2021, , .		3
44	Genome-Wide Association Studies: Information Theoretic Limits of Reliable Learning. , 2018, , .		2
45	Information Theory of Mixed Population Genome-Wide Association Studies. , 2018, , .		2
46	“User Interference Channels With Backhaul Cooperation: DoF vs. Backhaul Load Trade-Off. IEEE Transactions on Information Theory, 2019, 65, 7253-7267.	2.4	2
47	Information theoretic limits of learning of the causal features in a linear model. , 2018, , .		1
48	Private Shotgun DNA Sequencing: A Structured Approach. , 2019, , .		1
49	The Capacity of Associated Subsequence Retrieval. IEEE Transactions on Information Theory, 2021, 67, 790-804.	2.4	1
50	Cache-Aided Two-User Broadcast Channels with State Information at Receivers. , 2019, , .		0
51	Fundamental Limits of Distributed Linear Encoding. IEEE Transactions on Information Theory, 2021, , 1-1.	2.4	0