

Ramtin Pedarsani

List of Publications by Year in descending order

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61
papers

1,719
citations

758635

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docs citations

61
times ranked

1122
citing authors

#	ARTICLE	IF	CITATIONS
1	CodedReduce: A Fast and Robust Framework for Gradient Aggregation in Distributed Learning. IEEE/ACM Transactions on Networking, 2022, 30, 148-161.	2.6	6
2	Robustness and Adaptability of Reinforcement Learning-Based Cooperative Autonomous Driving in Mixed-Autonomy Traffic. IEEE Open Journal of Intelligent Transportation Systems, 2022, 3, 397-410.	2.6	23
3	An Optimal Transport Approach to Personalized Federated Learning. IEEE Journal on Selected Areas in Information Theory, 2022, 3, 162-171.	1.9	3
4	Routing for Traffic Networks With Mixed Autonomy. IEEE Transactions on Automatic Control, 2021, 66, 2664-2676.	3.6	16
5	Incentivizing Efficient Equilibria in Traffic Networks With Mixed Autonomy. IEEE Transactions on Control of Network Systems, 2021, 8, 1717-1729.	2.4	8
6	Edge Computing in the Dark: Leveraging Contextual-Combinatorial Bandit and Coded Computing. IEEE/ACM Transactions on Networking, 2021, 29, 1022-1031.	2.6	8
7	Optimal Tolling for Multitype Mixed Autonomous Traffic Networks. , 2021, , .		1
8	Incentivizing routing choices for safe and efficient transportation in the face of the COVID-19 pandemic. , 2021, , .		2
9	Learning how to dynamically route autonomous vehicles on shared roads. Transportation Research Part C: Emerging Technologies, 2021, 130, 103258.	3.9	14
10	Optimal Tolling for Multitype Mixed Autonomous Traffic Networks. , 2021, 5, 1849-1854.		2
11	Sharp Guarantees and Optimal Performance for Inference in Binary and Gaussian-Mixture Models. Entropy, 2021, 23, 178.	1.1	2
12	Hierarchical Coded Gradient Aggregation for Learning at the Edge. , 2020, , .		10
13	Mixed Autonomy in Ride-Sharing Networks. IEEE Transactions on Control of Network Systems, 2020, 7, 1940-1950.	2.4	7
14	Polarizing Front Ends for Robust Cnns. , 2020, , .		3
15	Optimality of Least-squares for Classification in Gaussian-Mixture Models. , 2020, , .		1
16	Coded Computing in Unknown Environment via Online Learning. , 2020, , .		5
17	Coded Computing for Distributed Graph Analytics. IEEE Transactions on Information Theory, 2020, 66, 6534-6554.	1.5	10
18	Learning Mixtures of Sparse Linear Regressions Using Sparse Graph Codes. IEEE Transactions on Information Theory, 2019, 65, 1430-1451.	1.5	9

#	ARTICLE	IF	CITATIONS
19	Timely-Throughput Optimal Coded Computing over Cloud Networks. , 2019, , .		30
20	Communication-Aware Scheduling of Serial Tasks for Dispersed Computing. IEEE/ACM Transactions on Networking, 2019, 27, 1330-1343.	2.6	30
21	Sub-Linear Time Support Recovery for Compressed Sensing Using Sparse-Graph Codes. IEEE Transactions on Information Theory, 2019, 65, 6580-6619.	1.5	14
22	Timely Coded Computing. , 2019, , .		24
23	SAFFRON: A Fast, Efficient, and Robust Framework for Group Testing Based on Sparse-Graph Codes. IEEE Transactions on Signal Processing, 2019, 67, 4649-4664.	3.2	14
24	An Exact Quantized Decentralized Gradient Descent Algorithm. IEEE Transactions on Signal Processing, 2019, 67, 4934-4947.	3.2	66
25	Coded Computation Over Heterogeneous Clusters. IEEE Transactions on Information Theory, 2019, 65, 4227-4242.	1.5	127
26	Sharp Guarantees for Solving Random Equations with One-Bit Information. , 2019, , .		3
27	Tree Gradient Coding. , 2019, , .		16
28	Ride-Sharing Networks with Mixed Autonomy. , 2019, , .		4
29	The Green Choice: Learning and Influencing Human Decisions on Shared Roads. , 2019, , .		9
30	Optimal Tolling for Heterogeneous Traffic Networks with Mixed Autonomy. , 2019, , .		10
31	Speeding Up Distributed Machine Learning Using Codes. IEEE Transactions on Information Theory, 2018, 64, 1514-1529.	1.5	509
32	Sub-linear Time Stochastic Threshold Group Testing via Sparse-Graph Codes. , 2018, , .		4
33	Maximizing Road Capacity Using Cars that Influence People. , 2018, , .		18
34	The Price of Anarchy for Transportation Networks with Mixed Autonomy*. , 2018, , .		10
35	Communication-Aware Scheduling of Serial Tasks for Dispersed Computing. , 2018, , .		9
36	Quantized Decentralized Consensus Optimization. , 2018, , .		16

#	ARTICLE	IF	CITATIONS
37	Signal Control for Urban Traffic Networks with Unknown System Parameters. , 2018, , .		0
38	Coded Computing for Distributed Graph Analytics. , 2018, , .		30
39	Platoons of connected vehicles can double throughput in urban roads. Transportation Research Part C: Emerging Technologies, 2017, 77, 292-305.	3.9	269
40	On Scheduling Redundant Requests With Cancellation Overheads. IEEE/ACM Transactions on Networking, 2017, 25, 1279-1290.	2.6	23
41	PhaseCode: Fast and Efficient Compressive Phase Retrieval Based on Sparse-Graph Codes. IEEE Transactions on Information Theory, 2017, 63, 3663-3691.	1.5	31
42	Low-complexity ramp metering for freeway congestion control via network utility maximization. , 2017, , .		2
43	Robust scheduling for flexible processing networks. Advances in Applied Probability, 2017, 49, 603-628.	0.4	15
44	Coded computation over heterogeneous clusters. , 2017, , .		55
45	Asynchronous and noncoherent neighbor discovery for the IoT using sparse-graph codes. , 2017, , .		5
46	Capacity modeling and routing for traffic networks with mixed autonomy. , 2017, , .		29
47	Latency analysis of coded computation schemes over wireless networks. , 2017, , .		31
48	Learning mixtures of sparse linear regressions using sparse graph codes. , 2017, , .		0
49	Compressed sensing using sparse-graph codes for the continuous-alphabet setting. , 2016, , .		5
50	Queue-length estimation using real-time traffic data. , 2016, , .		13
51	SAFFRON: A fast, efficient, and robust framework for group testing based on sparse-graph codes. , 2016, , .		25
52	Speeding up distributed machine learning using codes. , 2016, , .		59
53	Sparse covariance estimation based on sparse-graph codes. , 2015, , .		7
54	On scheduling redundant requests with cancellation overheads. , 2015, , .		9

#	ARTICLE	IF	CITATIONS
55	Fast and robust compressive phase retrieval with sparse-graph codes. , 2015, , .		7
56	Capacity-approaching PhaseCode for low-complexity compressive phase retrieval. , 2015, , .		1
57	On the DMT Optimality of Time-Varying Distributed Rotation Over Slow Fading Relay Channels. IEEE Transactions on Wireless Communications, 2015, 14, 421-434.	6.1	6
58	Robust scheduling in a flexible fork-join network. , 2014, , .		6
59	Scheduling tasks with precedence constraints on multiple servers. , 2014, , .		28
60	PhaseCode: Fast and efficient compressive phase retrieval based on sparse-graph codes. , 2014, , .		16
61	Robust scheduling and congestion control for flexible queueing networks. , 2014, , .		4