Krishna Jagannathan

List of Publications by Year
in descending order

		840585	887953
63 papers	**522** citations	**11** h-index	**17** g-index
63 all docs	**63** docs citations	**63** times ranked	**426** citing authors

#	ARTICLE	IF	CITATIONS
1	Non-Cooperative Spectrum Access â€" The Dedicated vs. Free Spectrum Choice. IEEE Journal on Selected Areas in Communications, 2012, 30, 2251-2261.	9.7	50
2	A multi-level clustering approach for forecasting taxi travel demand. , 2016, , .		39
3	Taxi Demand Forecasting: A HEDGE-Based Tessellation Strategy for Improved Accuracy. IEEE Transactions on Intelligent Transportation Systems, 2018, 19, 3686-3697.	4.7	33
4	Delay analysis of maximum weight scheduling in wireless Ad Hoc networks. , 2009, , .		29
5	Queue-Length Asymptotics for Generalized Max-Weight Scheduling in the Presence of Heavy-Tailed Traffic. IEEE/ACM Transactions on Networking, 2012, 20, 1096-1111.	2.6	26
6	Collaborative Learning of Stochastic Bandits Over a Social Network. IEEE/ACM Transactions on Networking, 2018, 26, 1782-1795.	2.6	23
7	Scheduling of multi-antenna broadcast systems with heterogeneous users. IEEE Journal on Selected Areas in Communications, 2007, 25, 1424-1434.	9.7	22
8	A framework for end-to-end deep learning-based anomaly detection in transportation networks. Transportation Research Interdisciplinary Perspectives, 2020, 5, 100112.	1.6	18
9	Queue-Aware Optimal Resource Allocation for the LTE Downlink With Best M Subband Feedback. IEEE Transactions on Wireless Communications, 2015, 14, 4923-4933.	6.1	14
10	Concentration bounds for empirical conditional value-at-risk: The unbounded case. Operations Research Letters, 2019, 47, 16-20.	0.5	14
11	Adaptive CSMA Under the SINR Model: Efficient Approximation Algorithms for Throughput and Utility Maximization. IEEE/ACM Transactions on Networking, 2017, 25, 1968-1981.	2.6	13
12	Stability, convergence and Hopf bifurcation analyses of the classical car-following model. Nonlinear Dynamics, 2019, 96, 185-204.	2.7	13
13	Non-cooperative spectrum access. , 2011, , .		12
14	Grids Versus Graphs: Partitioning Space for Improved Taxi Demand-Supply Forecasts. IEEE Transactions on Intelligent Transportation Systems, 2021, 22, 6526-6535.	4.7	12
15	A state action frequency approach to throughput maximization over uncertain wireless channels. , 2011, , .		11
16	Queue length asymptotics for generalized max-weight scheduling in the presence of heavy-tailed traffic. , 2011, , .		10
17	A State Action Frequency Approach to Throughput Maximization over Uncertain Wireless Channels. Internet Mathematics, 2013, 9, 136-160.	0.7	10
18	Car-following models with delayed feedback: Local stability and Hopf bifurcation. , 2015, , .		10

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19	When heavy-tailed and light-tailed flows compete: The response time tail under generalized max-weight scheduling. , 2013, , .		9
20	Throughput optimal scheduling in the presence of heavy-tailed traffic. , 2010, , .		8
21	On the Role of Queue Length Information in Network Control. IEEE Transactions on Information Theory, 2011, 57, 5884-5896.	1.5	8
22	Right buffer sizing matters: Stability, queuing delay and traffic burstiness in compound TCP. , 2014, , .		8
23	Contagion processes on urban bus networks in <scp>I</scp>ndian cities. Complexity, 2016, 21, 451-458.	0.9	8
24	Qubits through Queues: The Capacity of Channels with Waiting Time Dependent Errors. , 2019, , .		8
25	The Classical Capacity of Additive Quantum Queue-Channels. IEEE Journal on Selected Areas in Information Theory, 2020, 1, 432-444.	1.9	8
26	Throughput Optimal Scheduling Over Time-Varying Channels in the Presence of Heavy-Tailed Traffic. IEEE Transactions on Information Theory, 2014, 60, 2896-2909.	1.5	7
27	When Heavy-Tailed and Light-Tailed Flows Compete: The Response Time Tail Under Generalized Max-Weight Scheduling. IEEE/ACM Transactions on Networking, 2016, 24, 982-995.	2.6	7
28	Finite-horizon optimal transmission policies for energy harvesting sensors. , 2014, , .		6
29	Adaptive CSMA under the SINR model: Fast convergence through local gibbs optimization. , 2015, , .		6
30	Local Stability and Hopf Bifurcation Analysis for Compound TCP. IEEE Transactions on Control of Network Systems, 2018, 5, 1668-1681.	2.4	6
31	The modified optimal velocity model: stability analyses and design guidelines. IFAC Journal of Systems and Control, 2017, 2, 18-32.	1.1	6
32	Queue-aware optimal resource allocation for the LTE downlink. , 2013, , .		5
33	Information overload and human priority queuing. , 2014, , .		5
34	Collaborative learning of stochastic bandits over a social network. , 2016, , .		5
35	Forecasting Supply in Voronoi Regions for App-Based Taxi Hailing Services. , 2017, , .		5
36	String and robust stability of connected vehicle systems with delayed feedback. IFAC-PapersOnLine, 2018, 51, 259-264.	0.5	5

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37	Right buffer sizing matters: Some dynamical and statistical studies on Compound TCP. Performance Evaluation, 2020, 139, 102095.	0.9	5
38	The Impact of Queue Length Information on Buffer Overflow in Parallel Queues. IEEE Transactions on Information Theory, 2013, 59, 6393-6404.	1.5	4
39	Spatial CSMA: A distributed scheduling algorithm for the SIR model with time-varying channels. , 2015, , .		4
40	Efficient CSMA based on Kikuchi approximation. , 2016, , .		4
41	Taxi Dispatches Using Supply Forecasting: A Time-Series Based Approach. , 2016, , .		3
42	Impact of Delayed Acceleration Feedback on the Reduced Classical Car-Following Model. , 2016, , .		3
43	Downlink Resource Allocation Under Time-Varying Interference: Fairness and Throughput Optimality. IEEE Transactions on Wireless Communications, 2018, 17, 722-735.	6.1	3
44	The Classical Capacity of a Quantum Erasure Queue-Channel. , 2019, , .		3
45	On scheduling algorithms robust to heavy-tailed traffic. , 2012, , .		2
46	Queuing Approaches to Principal-Agent Communication under Information Overload. IEEE Transactions on Information Theory, 2017, , 1-1.	1.5	2
47	LSTM-Based Anomaly Detection: Detection Rules from Extreme Value Theory. Lecture Notes in Computer Science, 2019, , 572-583.	1.0	2
48	Effective resource allocation in a queue: How much control is necessary?. , 2008, , .		1
49	The impact of queue length information on buffer overflow in parallel queues. , 2009, , .		1
50	Downlink resource allocation under time-varying interference: Fairness and throughput optimality. , 2014, , .		1
51	Fair scheduling with deadline guarantees in single-hop networks. , 2014, , .		1
52	Efficient CSMA Using Regional Free Energy Approximations. IEEE/ACM Transactions on Networking, 2018, 26, 1796-1809.	2.6	1
53	Caching policies under content freshness constraints. , 2018, , .		1
54	Impact of delayed acceleration feedback on the classical car-following model. IMA Journal of Applied Mathematics, 2020, 85, 584-604.	0.8	1

#	Article	IF	Citations
55	Statistically Robust, Risk-Averse Best Arm Identification in Multi-Armed Bandits. IEEE Transactions on Information Theory, 2022, 68, 5248-5267.	1.5	1
56	Message from ITS workshop co-chairs. , 2015, , .		0
57	Distributed resource allocation for single-hop networks under the SINR model. , 2015, , .		0
58	Cost estimates for road congestion in Delhi: projections and recommendations. , 2015, , .		0
59	A probabilistic study of map matching for transportation applications. , 2016, , .		0
60	A computational study of a variant of the Optimal Velocity Model with no collisions. , 2016, , .		0
61	Hierarchical scheduling algorithms with throughput guarantees and low delay. , 2018, , .		0
62	CVaR-sensitive bandits: The light-tailed case. , 2019, , .		0
63	Collaborative Best Arm Identification in Multi-armed Bandits. , 2022, , .		0