Sastry Kompella

List of Publications by Year in descending order

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394421 345221 2,928 141 19 36 citations g-index h-index papers 141 141 141 1885 docs citations times ranked citing authors all docs

#	Article	IF	CITATIONS
1	Scheduling With Age of Information Guarantee. IEEE/ACM Transactions on Networking, 2022, 30, 2046-2059.	3.8	10
2	Age of Information Optimization in Multi-Channel Based Multi-Hop Wireless Networks. IEEE Transactions on Mobile Computing, 2022, , 1-15.	5.8	1
3	Ao ² I: Minimizing Age of Outdated Information to Improve Freshness in Data Collection., 2022,,.		10
4	A Theory of Second-Order Wireless Network Optimization and Its Application on Aol. , 2022, , .		2
5	Radar Target Classification Receiver Using Sparse Regression and Target Tailored Matched Filters. IEEE Transactions on Aerospace and Electronic Systems, 2022, , 1-12.	4.7	0
6	Practical Implementation of Adaptive Threshold Energy Detection using Software Defined Radio. IEEE Transactions on Aerospace and Electronic Systems, 2021, 57, 1227-1241.	4.7	6
7	Aion: A Bandwidth Optimized Scheduler with Aol Guarantee. , 2021, , .		10
8	Optimal Sampling and Scheduling for Timely Status Updates in Multi-Source Networks. IEEE Transactions on Information Theory, 2021, 67, 4019-4034.	2.4	46
9	Boosting or Hindering: AoI and Throughput Interrelation in Routing-Aware Multi-Hop Wireless Networks. IEEE/ACM Transactions on Networking, 2021, 29, 1008-1021.	3.8	11
10	Minimizing Aol in a 5G-Based IoT Network Under Varying Channel Conditions. IEEE Internet of Things Journal, 2021, 8, 14543-14558.	8.7	11
11	Age of Sensed Information in a Cognitive Radio Network. , 2021, , .		2
12	A Model for Coherent Communication Gain in Distributed Wireless Networks., 2021,,.		1
13	Ad Hoc Networking Under Limitations on Sum Power Interference to an External Node. , 2021, , .		0
14	The Role of AoI in a Cognitive Radio Network: Lyapunov Optimization and Tradeoffs. , 2021, , .		1
15	Generalizable and Interpretable Deep Learning for Network Congestion Prediction. , 2021, , .		4
16	Wireless Network Topology Control: Adjustable Resiliency and Network Traffic Delivery. , 2021, , .		1
17	Age of Incorrect Information for Remote Estimation of a Binary Markov Source. , 2020, , .		32
18	AoI and Throughput Tradeoffs in Routing-aware Multi-hop Wireless Networks. , 2020, , .		18

#	Article	IF	CITATIONS
19	On DoF-Based Interference Cancellation Under General Channel Rank Conditions. IEEE/ACM Transactions on Networking, 2020, 28, 1002-1016.	3.8	2
20	Exploring transmit null forming in open-loop coherent distributed arrays. , 2020, , .		2
21	Transmission scheduling in spatio-temporal process monitoring based wireless sensor networks. , 2020, , .		0
22	Special issue on age of information. Journal of Communications and Networks, 2019, 21, 201-203.	2.6	3
23	How Advantageous Is It? An Analytical Study of Controller-Assisted Path Construction in Distributed SDN. IEEE/ACM Transactions on Networking, 2019, 27, 1643-1656.	3.8	3
24	Learning the Optimal Synchronization Rates in Distributed SDN Control Architectures. , 2019, , .		14
25	Learning to Sample a Signal through an Unknown System for Minimum Aol. , 2019, , .		12
26	Magnalium: Highly Reliable SDC Networks with Multiple Control Plane Composition., 2019,,.		1
27	Age-optimal Sampling and Transmission Scheduling in Multi-Source Systems. , 2019, , .		51
28	MIMO-Empowered Secondary Networks for Efficient Spectrum Sharing., 2019,, 989-1020.		0
29	System Power Minimization in Non-contiguous Spectrum Access. , 2019, , 839-868.		0
30	Information freshness over a Markov channel: The effect of channel state information. Ad Hoc Networks, 2019, 86, 63-71.	5. 5	10
31	A General Method to Determine Asymptotic Capacity Upper Bounds for Wireless Networks. IEEE Transactions on Network Science and Engineering, 2019, 6, 2-15.	6.4	2
32	On the Age of Information With Packet Deadlines. IEEE Transactions on Information Theory, 2018, 64, 6419-6428.	2.4	121
33	Impact of Hostile Interference on Wireless Link Connectivity. IEEE Transactions on Control of Network Systems, 2018, 5, 1445-1456.	3.7	2
34	Age of Information for Queues in Tandem. , 2018, , .		17
35	A General Model for DoF-based Interference Cancellation in MIMO Networks With Rank-Deficient Channels. , $2018, \ldots$		3
36	Experiment: Investigating Feasibility of Coexistence of LTE-U with a Rotating Radar in CBRS Bands. , 2018, , .		6

#	Article	IF	CITATIONS
37	Information Freshness Over an Interference Channel: A Game Theoretic View. , 2018, , .		32
38	SDN Controller Placement With Delay-Overhead Balancing in Wireless Edge Networks. IEEE Transactions on Network and Service Management, 2018, 15, 1446-1459.	4.9	35
39	Towards an "Effective Age―Concept. , 2018, , .		10
40	Towards an effective age of information: Remote estimation of a Markov source. , 2018, , .		47
41	Age-optimal updates of multiple information flows. , 2018, , .		93
42	Beyond Overlay: Reaping Mutual Benefits for Primary and Secondary Networks Through Node-Level Cooperation. IEEE Transactions on Mobile Computing, 2017, 16, 2-15.	5.8	8
43	A Distributed Scheduling Algorithm for Underwater Acoustic Networks With Large Propagation Delays. IEEE Transactions on Communications, 2017, 65, 1131-1145.	7.8	19
44	Impact of asynchronous transmissions in noncontiguous OFDMA. , 2017, , .		0
45	Information freshness and popularity in mobile caching. , 2017, , .		55
46	Impact of hostile interference on information freshness: A game approach. , 2017, , .		34
47	On Link Scheduling in Dual-Hop 60-GHz mmWave Networks. IEEE Transactions on Vehicular Technology, 2017, 66, 11180-11192.	6.3	19
48	Special issue on wireless SDN. Journal of Communications and Networks, 2017, 19, 543-545.	2.6	1
49	Coexistence of radar and communication systems in CBRS bands through downlink power control. , 2017, , .		13
50	Modeling the age of information in emulated ad hoc networks., 2017,,.		12
51	How Close Can I Be? - A Comprehensive Analysis of Cellular Interference on ATC Radar. , 2017, , .		3
52	A Distributed Algorithm to Achieve Transparent Coexistence for a Secondary Multi-Hop MIMO Network. IEEE Transactions on Wireless Communications, 2016, 15, 6063-6077.	9.2	1
53	Link scheduling and channel assignment with a graph spectral clustering approach. , 2016, , .		1
54	Controlling the age of information: Buffer size, deadline, and packet replacement. , 2016, , .		39

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55	Physical-layer security of NC-OFDM-based systems. , 2016, , .		3
56	Cross-Layer Optimization for Multi-Hop Wireless Networks With Successive Interference Cancellation. IEEE Transactions on Wireless Communications, 2016, 15, 5819-5831.	9.2	31
57	Effect of Message Transmission Path Diversity on Status Age. IEEE Transactions on Information Theory, 2016, 62, 1360-1374.	2.4	154
58	Quality of Experience Driven Multi-User Video Streaming in Cellular Cognitive Radio Networks With Single Channel Access. IEEE Transactions on Multimedia, 2016, 18, 1401-1413.	7.2	19
59	Network-coded cooperative communications with multiple relay nodes: Achievable rate and network optimization. Ad Hoc Networks, 2016, 53, 79-93.	5.5	5
60	On Throughput Region for Primary and Secondary Networks With Node-Level Cooperation. IEEE Journal on Selected Areas in Communications, 2016, 34, 2763-2775.	14.0	5
61	Wireless link connectivity under hostile interference: Nash and stackelberg equilibria. , 2016, , .		2
62	Age of information with a packet deadline. , 2016, , .		54
63	Design and implementation of an underlay control channel for NC-OFDM-based networks. , 2016, , .		5
64	A Decomposition Approach to Quality-Driven Multiuser Video Streaming in Cellular Cognitive Radio Networks. IEEE Transactions on Wireless Communications, 2016, 15, 728-739.	9.2	20
65	On power control in full duplex underlay cognitive radio networks. Ad Hoc Networks, 2016, 37, 183-194.	5.5	14
66	An Analytical Model for Interference Alignment in Multi-Hop MIMO Networks. IEEE Transactions on Mobile Computing, 2016, 15, 17-31.	5.8	19
67	Minimum Time Length Scheduling under Blockage and Interference in Multi-Hop mmWave Networks. , 2015, , .		10
68	Simultaneous Schedule-Based Transmission by Primary and Secondary Users for Heavy-Traffic Cognitive Radio Networks. IEEE Transactions on Vehicular Technology, 2015, 64, 1132-1142.	6.3	1
69	Experimental evaluation of the age of information via emulation. , 2015, , .		29
70	SINR-based scheduling for minimum latency broadcast. , 2015, , .		3
71	Minimum-energy link scheduling for emptying wireless networks. , 2015, , .		5
72	Optimal throughput curve for primary and secondary users with node-level cooperation., 2015,,.		4

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73	Toward Transparent Coexistence for Multihop Secondary Cognitive Radio Networks. IEEE Journal on Selected Areas in Communications, 2015, 33, 958-971.	14.0	10
74	Network Performance and Spectral Behavior of Cognitive Radios during a Coexistence Field Test. , 2014, , .		3
75	Impact of channel state information on energy efficient transmission in interference channels. , 2014, , .		0
76	QoE driven video streaming in cognitive radio networks: The case of single channel access. , 2014, , .		12
77	Shark-IA., 2014,,.		14
78	Power Control in Full Duplex Underlay Cognitive Radio Networks: A Control Theoretic Approach. , 2014, , .		15
79	Cooperation in Cognitive Underlay Networks: Stable Throughput Tradeoffs. IEEE/ACM Transactions on Networking, 2014, 22, 1756-1768.	3.8	27
80	Effect of message transmission diversity on status age. , 2014, , .		65
81	Achieving transparent coexistence in a multi-hop secondary network through distributed computation. , $2014, \ldots$		1
82	Joint Optimization of Session Grouping and Relay Node Selection for Network-Coded Cooperative Communications. IEEE Transactions on Mobile Computing, 2014, 13, 2028-2041.	5.8	10
83	Achievable Throughput under BER Constraints via Transmission Scheduling and Multiuser Detection. IEEE Transactions on Wireless Communications, 2014, 13, 124-131.	9.2	3
84	Special issue on cognitive networking. Journal of Communications and Networks, 2014, 16, 101-109.	2.6	0
85	Frequency Selection and Relay Placement for Energy Efficiency in Underwater Acoustic Networks. IEEE Journal of Oceanic Engineering, 2014, 39, 331-342.	3.8	23
86	Cognitive Cooperative Random Access for Multicast: Stability and Throughput Analysis. IEEE Transactions on Control of Network Systems, 2014, 1, 135-144.	3.7	5
87	Minimum Time Length Scheduling under Blockage and Interference in Multi-Hop mmWave Networks. , 2014, , .		0
88	UPS: A United Cooperative Paradigm for Primary and Secondary Networks. , 2013, , .		14
89	Beyond interference avoidance: On transparent coexistence for multi-hop secondary CR networks. , 2013, , .		7
90	Age of information under random updates. , 2013, , .		186

#	Article	lF	Citations
91	On interference alignment for multi-hop MIMO networks. , 2013, , .		8
92	Bridging the Gap between Protocol and Physical Models for Wireless Networks. IEEE Transactions on Mobile Computing, 2013, 12, 1404-1416.	5.8	47
93	Bicriteria Optimization in Multihop Wireless Networks: Characterizing the Throughput-Energy Envelope. IEEE Transactions on Mobile Computing, 2013, 12, 1866-1878.	5.8	4
94	Multicast throughput stability analysis for cognitive cooperative random access. , 2013, , .		5
95	On Optimal Wireless Scheduling with Propagation Delays. , 2013, , .		0
96	Impact of channel state information on the stability of cognitive shared channels. , 2012, , .		2
97	Toward simple criteria to establish capacity scaling laws for wireless networks. , 2012, , .		13
98	Stable Throughput Regions in Wireless Networks. Foundations and Trends in Networking, 2012, 7, 235-338.	10.2	13
99	Network Coding in Cooperative Communications: Friend or Foe?. IEEE Transactions on Mobile Computing, 2012, 11, 1073-1085.	5.8	44
100	Optimal frequency selection for energy efficient underwater acoustic networks. , 2012, , .		1
101	Wireless multicast with cooperative relaying. , 2012, , .		2
102	Implementation of distributed time exchange based cooperative forwarding. , 2012, , .		0
103	Squeezing the most out of interference: An optimization framework for joint interference exploitation and avoidance. , 2012, , .		43
104	Joint Flow Routing and Relay Node Assignment in Cooperative Multi-Hop Networks. IEEE Journal on Selected Areas in Communications, 2012, 30, 254-262.	14.0	30
105	Achievable Rate Analysis in Network-Coded Cooperative Communications with Multiple Relay Nodes. , $2011, \ldots$		2
106	On the Asymptotic Capacity of Multi-Hop MIMO Ad Hoc Networks. IEEE Transactions on Wireless Communications, 2011, 10, 1032-1037.	9.2	21
107	On the Throughput of MIMO-Empowered Multihop Cognitive Radio Networks. IEEE Transactions on Mobile Computing, 2011, 10, 1505-1519.	5.8	19
108	Stable throughput tradeoffs in cognitive shared channels with cooperative relaying. , 2011, , .		56

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109	Optimizing network-coded cooperative communications via joint session grouping and relay node selection. , 2011 , , .		17
110	Optimal grouping and matching for network-coded cooperative communications., 2011,,.		3
111	Parallel TDMA Scheduling for Multiple-Destination Wireless Networks. IEEE Transactions on Wireless Communications, 2011, 10, 3843-3851.	9.2	0
112	An Optimal Algorithm for Relay Node Assignment in Cooperative Ad Hoc Networks. IEEE/ACM Transactions on Networking, 2011, 19, 879-892.	3.8	174
113	Impact of relay placement on energy efficiency in Underwater Acoustic Networks. , 2011, , .		4
114	Optimal resource allocation in a bandwidth exchange enabled relay network., 2011,,.		0
115	Transmission strategies for single-destination wireless networks. , 2011, , .		4
116	On optimal throughput-energy curve for multi-hop wireless networks., 2011,,.		17
117	On Capacity Scaling Law of Cognitive Radio Ad Hoc Networks. , 2011, , .		9
118	Optimal scheduling in frequency-agile wireless networks. , 2010, , .		0
119	Is Network Coding Always Good for Cooperative Communications?. , 2010, , .		34
120	Channel sharing in cognitive radio networks. , 2010, , .		9
121	Cooperative Communications in Multi-hop Wireless Networks: Joint Flow Routing and Relay Node Assignment. , 2010, , .		87
122	On Optimal SINR-Based Scheduling in Multihop Wireless Networks. IEEE/ACM Transactions on Networking, 2010, 18, 1713-1724.	3.8	147
123	Optimal Scheduling in Interference Limited Fading Wireless Networks. , 2009, , .		7
124	Transmission scheduling in capture-based wireless networks., 2009,,.		5
125	How to correctly use the protocol interference model for multi-hop wireless networks. , 2009, , .		100
126	On Path Selection and Rate Allocation for Video in Wireless Mesh Networks. IEEE/ACM Transactions on Networking, 2009, 17, 212-224.	3.8	59

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127	Cooperation for transmission scheduling in wireless networks. , 2009, , .		1
128	A cross-layer approach to multi-hop networking with cognitive radios. , 2008, , .		7
129	Optimal relay assignment for cooperative communications. , 2008, , .		137
130	On the capacity of multiuser MIMO networks with interference. IEEE Transactions on Wireless Communications, 2008, 7, 488-494.	9.2	20
131	Revisiting the optimal scheduling problem. , 2008, , .		19
132	A cross-layer approach to end-to-end routing and SINR-based scheduling in multi-hop wireless networks. , 2008, , .		11
133	Optimization of transmission schedules in capture-based wireless networks. , 2008, , .		18
134	Multi-hop routing and scheduling in wireless networks subject to SINR constraints., 2007,,.		12
135	Conjugate Gradient Projection Approach for MIMO Gaussian Broadcast Channels. , 2007, , .		11
136	Optimal Multipath Routing for Performance Guarantees in Multi-Hop Wireless Networks., 2007,,.		3
137	A Cross-layer Approach to Optimal Wireless Link Scheduling with SINR Constraints. , 2007, , .		22
138	Cross-layer optimized multipath routing for video communications in wireless networks. IEEE Journal on Selected Areas in Communications, 2007, 25, 831-840.	14.0	54
139	Path Selection and Rate Allocation for Video Streaming in Multihop Wireless Networks. , 2006, , .		7
140	Cross-Layer Optimization for UWB-Based AD HOC Networks. , 2006, , .		3
141	<title>Performance of multiresolution pattern classifiers in medical image encoding from wavelet coefficient distributions</title> ., 1998, 3338, 256.		2