

Anthony Ephremides

List of Publications by Year in descending order

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150
papers

3,725
citations

279487

23
h-index

189595

50
g-index

150
all docs

150
docs citations

150
times ranked

1875
citing authors

#	ARTICLE	IF	CITATIONS
1	On the Age of Information in Status Update Systems With Packet Management. IEEE Transactions on Information Theory, 2016, 62, 1897-1910.	1.5	470
2	Cognitive multiple access via cooperation: Protocol design and performance analysis. IEEE Transactions on Information Theory, 2007, 53, 3677-3696.	1.5	295
3	Age of information under random updates. , 2013, , .		186
4	Effect of Message Transmission Path Diversity on Status Age. IEEE Transactions on Information Theory, 2016, 62, 1360-1374.	1.5	154
5	Optimal Link Scheduling for Age Minimization in Wireless Systems. IEEE Transactions on Information Theory, 2018, 64, 5381-5394.	1.5	136
6	On the Age of Information With Packet Deadlines. IEEE Transactions on Information Theory, 2018, 64, 6419-6428.	1.5	121
7	The Age of Incorrect Information: A New Performance Metric for Status Updates. IEEE/ACM Transactions on Networking, 2020, 28, 2215-2228.	2.6	113
8	Optimal utilization of a cognitive shared channel with a rechargeable primary source node. Journal of Communications and Networks, 2012, 14, 162-168.	1.8	112
9	On Joint MAC and Network Coding in Wireless Ad Hoc Networks. IEEE Transactions on Information Theory, 2007, 53, 3697-3713.	1.5	89
10	On the Age of Information in a CSMA Environment. IEEE/ACM Transactions on Networking, 2020, 28, 818-831.	2.6	85
11	Cross-Layer Optimization of MAC and Network Coding in Wireless Queueing Tandem Networks. IEEE Transactions on Information Theory, 2008, 54, 554-571.	1.5	56
12	Stable throughput tradeoffs in cognitive shared channels with cooperative relaying. , 2011, , .		56
13	Relay-Assisted Multiple Access With Full-Duplex Multi-Packet Reception. IEEE Transactions on Wireless Communications, 2015, 14, 3544-3558.	6.1	55
14	Information freshness and popularity in mobile caching. , 2017, , .		55
15	Age of information with a packet deadline. , 2016, , .		54
16	A game-theoretic analysis of denial of service attacks in wireless random access. Wireless Networks, 2009, 15, 651-666.	2.0	51
17	Towards an effective age of information: Remote estimation of a Markov source. , 2018, , .		47
18	Secure Distributed Information Exchange. IEEE Transactions on Information Theory, 2014, 60, 1126-1135.	1.5	42

#	ARTICLE	IF	CITATIONS
19	Optimal packet scheduling for energy harvesting sources on time varying wireless channels. Journal of Communications and Networks, 2012, 14, 121-129.	1.8	41
20	Cooperative Access in Wireless Networks: Stable Throughput and Delay. IEEE Transactions on Information Theory, 2012, 58, 5890-5907.	1.5	41
21	On the Stability of Random Multiple Access With Stochastic Energy Harvesting. IEEE Journal on Selected Areas in Communications, 2015, 33, 571-584.	9.7	41
22	On the Optimality of the Whittle's Index Policy for Minimizing the Age of Information. IEEE Transactions on Wireless Communications, 2021, 20, 1263-1277.	6.1	40
23	Controlling the age of information: Buffer size, deadline, and packet replacement. , 2016, , .		39
24	A queueing model for random linear coding. , 2007, , .		36
25	Energy-Efficient Routing for Connection-Oriented Traffic in Wireless Ad-Hoc Networks. Mobile Networks and Applications, 2003, 8, 517-533.	2.2	34
26	The stability region of random multiple access under stochastic energy harvesting. , 2011, , .		34
27	Impact of hostile interference on information freshness: A game approach. , 2017, , .		34
28	On Broadcast Stability of Queue-Based Dynamic Network Coding Over Erasure Channels. IEEE Transactions on Information Theory, 2009, 55, 5463-5478.	1.5	33
29	On Capture in Random-Access Systems. , 2006, , .		32
30	Optimal Partial Relaying for Energy-Harvesting Wireless Networks. IEEE/ACM Transactions on Networking, 2016, 24, 113-122.	2.6	32
31	Information Freshness Over an Interference Channel: A Game Theoretic View. , 2018, , .		32
32	Protocol-level cooperation in wireless networks: Stable throughput and delay analysis. , 2009, , .		29
33	Experimental evaluation of the age of information via emulation. , 2015, , .		29
34	Age of Information and Throughput in a Shared Access Network with Heterogeneous Traffic. , 2018, , .		29
35	A reputation-based Stackelberg game approach for spectrum sharing with cognitive cooperation. , 2013, , .		27
36	Cooperation in Cognitive Underlay Networks: Stable Throughput Tradeoffs. IEEE/ACM Transactions on Networking, 2014, 22, 1756-1768.	2.6	27

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37	Random Access Broadcast: Stability and Throughput Analysis. IEEE Transactions on Information Theory, 2007, 53, 2915-2921.	1.5	26
38	Capacity and Stable Throughput Regions for the Broadcast Erasure Channel With Feedback: An Unusual Union. IEEE Transactions on Information Theory, 2013, 59, 2841-2862.	1.5	26
39	Cooperation above the physical layer: The case of a simple network. , 2009, , .		25
40	A game-theoretic look at simple relay channel. Wireless Networks, 2006, 12, 545-560.	2.0	23
41	Energy Efficiency of Cooperative Relaying over a Wireless Link. IEEE Transactions on Wireless Communications, 2012, 11, 2076-2083.	6.1	23
42	A New Approach to Random Access: Reliable Communication and Reliable Collision Detection. IEEE Transactions on Information Theory, 2012, 58, 989-1002.	1.5	23
43	Frequency Selection and Relay Placement for Energy Efficiency in Underwater Acoustic Networks. IEEE Journal of Oceanic Engineering, 2014, 39, 331-342.	2.1	23
44	Stable Throughput for Multicast With Random Linear Coding. IEEE Transactions on Information Theory, 2011, 57, 267-281.	1.5	22
45	Multicell MISO Downlink Weighted Sum-Rate Maximization: A Distributed Approach. IEEE Transactions on Signal Processing, 2013, 61, 556-570.	3.2	22
46	Minimum schedule lengths with rate control in wireless networks. , 2008, , .		21
47	Reliable Spectrum Sensing and Opportunistic Access in Network-Coded Communications. IEEE Journal on Selected Areas in Communications, 2014, 32, 400-410.	9.7	21
48	Energy Efficient and Throughput Optimal CSMA Scheme. IEEE/ACM Transactions on Networking, 2019, 27, 316-329.	2.6	21
49	Queueing Delay Analysis for Multicast With Random Linear Coding. IEEE Transactions on Information Theory, 2012, 58, 421-429.	1.5	20
50	Collaborative Multiple-Access Protocols for Wireless Networks. , 2006, , .		19
51	The stability region of the two-user interference channel. , 2013, , .		19
52	Energy Efficiency Versus Performance in Cognitive Wireless Networks. IEEE Journal on Selected Areas in Communications, 2016, 34, 1336-1347.	9.7	19
53	Reconstruction of Counting Process in Real-Time: The Freshness of Information Through Queues. , 2019, , .		19
54	On Network Coding for Stable Multicast Communication. , 2007, , .		18

#	ARTICLE	IF	CITATIONS
55	Optimization of transmission schedules in capture-based wireless networks. , 2008, , .		18
56	Wireless network-level partial relay cooperation. , 2012, , .		18
57	Some Optimization Trade-offs in Wireless Network Coding. , 2006, , .		17
58	Stable Throughput Region of the Two-User Broadcast Channel. IEEE Transactions on Communications, 2018, , 1-1.	4.9	17
59	Non-linear Age of Information in a Discrete Time Queue: Stationary Distribution and Average Performance Analysis. , 2020, , .		17
60	Optimal utilization of a cognitive shared channel with a rechargeable primary source node. , 2011, , .		16
61	The Stability Property of Cognitive Radio Systems with Imperfect Sensing. IEEE Journal on Selected Areas in Communications, 2014, 32, 628-640.	9.7	16
62	Network Coding in Wireless Queueing Networks: Tandem Network Case. , 2006, , .		15
63	On the queueing delay of a multicast erasure channel. , 2006, , .		14
64	Cooperative Multiple Access for Wireless Networks: Protocols Design and Stability Analysis. , 2006, , .		14
65	Jamming games for power controlled medium access with dynamic traffic. , 2010, , .		14
66	Joint Scheduling and Routing for Ad-hoc Networks Under Channel State Uncertainty. , 2007, , .		12
67	Stability analysis of random linear coding across multicast sessions. , 2008, , .		12
68	The scheduling problem in wireless networks. Journal of Communications and Networks, 2009, 11, 489-499.	1.8	12
69	A Cross-Layer View of Optimal Scheduling. IEEE Transactions on Information Theory, 2010, 56, 5568-5580.	1.5	12
70	Network-Level Cooperation for a Multiple-Access Channel Via Dynamic Decode-and-Forward. IEEE Transactions on Information Theory, 2011, 57, 7759-7770.	1.5	12
71	Maximum Link Activation with Cooperative Transmission and Interference Cancellation in Wireless Networks. IEEE Transactions on Mobile Computing, 2017, 16, 408-421.	3.9	12
72	Modeling the age of information in emulated ad hoc networks. , 2017, , .		12

#	ARTICLE	IF	CITATIONS
73	Learning to Sample a Signal through an Unknown System for Minimum Aol. , 2019, , .		12
74	A cross-layer approach to end-to-end routing and SINR-based scheduling in multi-hop wireless networks. , 2008, , .		11
75	A cross-layer approach for stable throughput maximization under channel state uncertainty. Wireless Networks, 2009, 15, 555-569.	2.0	11
76	Queue Management for Age Sensitive Status Updates. , 2019, , .		11
77	Scheduling to Minimize Age of Incorrect Information with Imperfect Channel State Information. Entropy, 2021, 23, 1572.	1.1	11
78	Dynamic Power Control for Packets with Deadlines. , 2018, , .		10
79	Towards an "Effective Age" Concept. , 2018, , .		10
80	Comments on "Capture and Retransmission Control in Mobile Radio" IEEE Journal on Selected Areas in Communications, 2006, 24, 2340-2341.	9.7	9
81	Channel sharing in cognitive radio networks. , 2010, , .		9
82	Title is missing!. Cluster Computing, 2002, 5, 179-192.	3.5	8
83	Throughput (bits/sec/Hz) of Capture-Based Random-Access Systems with SINR Channel Models. , 2007, , .		8
84	Minimum-length scheduling and rate control for time-varying wireless networks. , 2009, , .		8
85	Network-level cooperation with enhancements based on the physical layer. , 2010, , .		8
86	Transmission control of two-user slotted ALOHA over Gilbert-Elliott channel: Stability and delay analysis. , 2011, , .		8
87	A Game-Theoretic Analysis of Denial of Service Attacks in Wireless Random Access. , 2007, , .		7
88	Stable throughput for multicast with inter-session network coding. , 2008, , .		7
89	Optimal Scheduling in Interference Limited Fading Wireless Networks. , 2009, , .		7
90	Optimal scheduling for energy harvesting sources on time varying wireless channels. , 2011, , .		7

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91	Access Schemes for Mitigating the Effects of Sensing Errors in Cognitive Wireless Networks. IEEE Transactions on Wireless Communications, 2014, 13, 3343-3352.	6.1	7
92	On Delay-Power Tradeoff of Rate Adaptive Wireless Communications with Random Arrivals. , 2017, , .		7
93	A cross-layer view of wireless multicast optimization. , 2008, , .		6
94	A Game-Theoretic Look at Throughput and Stability in Random Access. , 2006, , .		5
95	Accurate Capture Models and Their Impact on Random Access in Multiple-Destination Networks. , 2006, , .		5
96	Transmission scheduling in capture-based wireless networks. , 2009, , .		5
97	A cross-layer view of wireless multicasting under uncertainty. , 2009, , .		5
98	Minimum-energy link scheduling for emptying wireless networks. , 2015, , .		5
99	Traffic-Aware Scheduling and Feedback Allocation in Multichannel Wireless Networks. IEEE Transactions on Wireless Communications, 2018, 17, 5520-5534.	6.1	5
100	Comparison of satellite and cellular architectures for downlink broadcast data transmission. International Journal of Satellite Communications and Networking, 2007, 25, 27-43.	1.2	4
101	Distortion Control for Delay-Sensitive Sources. IEEE Transactions on Information Theory, 2008, 54, 3399-3411.	1.5	4
102	Impact of relay placement on energy efficiency in Underwater Acoustic Networks. , 2011, , .		4
103	Transmission strategies for single-destination wireless networks. , 2011, , .		4
104	Energy efficiency in cooperative cognitive wireless networks. , 2014, , .		4
105	On optimal link scheduling with deadlines for emptying a wireless network. , 2017, , .		4
106	Overlay D2D vs. Cellular communications: A stability region analysis. , 2017, , .		4
107	Minimum-Length Scheduling for Multicast Traffic under Channel Uncertainty. , 2009, , .		3
108	Random Access in Wireless Networks With Overlapping Cells. IEEE Transactions on Information Theory, 2010, 56, 2887-2892.	1.5	3

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109	SINR-based scheduling for minimum latency broadcast. , 2015, , .		3
110	The Gaussian interference channel revisited as a non-cooperative game with transmission cost. , 2017, , .		3
111	Timely Updates With Priorities: Lexicographic Age Optimality. IEEE Transactions on Communications, 2022, 70, 3020-3033.	4.9	3
112	SAT04-1: Satellite vs. Cellular Broadcasting : A Multi-Criteria Comparison. IEEE Global Telecommunications Conference (GLOBECOM), 2006, , .	0.0	2
113	An iterative framework for optimizing multicast throughput in wireless networks. , 2008, , .		2
114	A channel coding approach for random access communication with bursty sources. , 2010, , .		2
115	Energy/delay tradeoffs in data transmission over a time varying wireless link. , 2011, , .		2
116	Impact of channel state information on the stability of cognitive shared channels. , 2012, , .		2
117	Wireless multicast with cooperative relaying. , 2012, , .		2
118	Effect of channel estimation errors on the stability of channel-aware random access. , 2012, , .		2
119	On the stability region of a relay-assisted multiple access scheme. , 2013, , .		2
120	On hybrid access for cognitive radio systems with time-varying connectivity. , 2013, , .		2
121	Improving the Cognitive Access Efficiency by Non-Uniform Bandwidth Allocation. IEEE Transactions on Wireless Communications, 2015, 14, 6435-6447.	6.1	2
122	Wireless link connectivity under hostile interference: Nash and stackelberg equilibria. , 2016, , .		2
123	Queueing Stability and CSI Probing of a TDD Wireless Network With Interference Alignment. IEEE Transactions on Information Theory, 2018, 64, 547-576.	1.5	2
124	Impact of Hostile Interference on Wireless Link Connectivity. IEEE Transactions on Control of Network Systems, 2018, 5, 1445-1456.	2.4	2
125	Detection, Energy, and Robustness in Wireless Sensor Networks. , 2006, , 145-172.		1
126	Random linear coding for multicast over a time-varying channel. , 2008, , .		1

#	ARTICLE	IF	CITATIONS
127	Cooperation for transmission scheduling in wireless networks. , 2009, , .		1
128	Impact of time-correlated arrivals on the performance of backpressure-based stochastic network control. , 2011, , .		1
129	Optimal frequency selection for energy efficient underwater acoustic networks. , 2012, , .		1
130	Simultaneous Schedule-Based Transmission by Primary and Secondary Users for Heavy-Traffic Cognitive Radio Networks. IEEE Transactions on Vehicular Technology, 2015, 64, 1132-1142.	3.9	1
131	Power Control in Massive MIMO with Dynamic User Population. , 2018, , .		1
132	Using Bandwidth-Space Partitioning to Improve Cell Coverage and Near-Far Unfair Access Problem in a Noise-Limited CDMA Cellular Network. Wireless Networks, 2005, 11, 497-505.	2.0	0
133	Power control in uplink and downlink CDMA systems with multiple flow types. Journal of Communications and Networks, 2006, 8, 313-322.	1.8	0
134	Comparison of Two Low Complexity Multiple Access Schemes. , 2006, , .		0
135	Joint Scheduling and Rate Control Algorithms for Stable Throughput Maximization under Channel Estimation in Single-Hop Wireless Networks. , 2008, , .		0
136	Superiority of Superposition Multiaccess With Single-User Decoding Over TDMA in the Low SNR Regime. IEEE Transactions on Information Theory, 2010, 56, 5581-5589.	1.5	0
137	Energy efficient transmission in a simple wireless multicast network. , 2010, , .		0
138	Performance tradeoffs in wireless multicasting. , 2010, , .		0
139	Extending the power of backpressure to correlated traffic. , 2011, , .		0
140	Parallel TDMA Scheduling for Multiple-Destination Wireless Networks. IEEE Transactions on Wireless Communications, 2011, 10, 3843-3851.	6.1	0
141	Errata to "Wireless Multicast Optimization: A Cross-Layer Approach" [Jul 11 4333-4343]. IEEE Transactions on Information Theory, 2011, 57, 5573-5573.	1.5	0
142	Rate Control for Energy Minimization of Delay Constrained Cellular Transmissions. , 2012, , .		0
143	Communication-theoretic analysis of capture-based networks. Journal of Communications and Networks, 2012, 14, 243-251.	1.8	0
144	Energy and delay costs of security for wireless file distribution. , 2013, , .		0

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145	On Optimal Wireless Scheduling with Propagation Delays. , 2013, , .		0
146	Impact of channel state information on energy efficient transmission in interference channels. , 2014, , .		0
147	Enhanced access schemes based on channel statistics for cognitive wireless networks. , 2014, , .		0
148	Relaying and stability in energy harvesting simple networks. , 2014, , .		0
149	Exploiting Different Cognition Levels of Channel Information in Transmission Scheduling of Two Sources Over Time Varying Wireless Channels. IEEE Transactions on Cognitive Communications and Networking, 2015, 1, 284-293.	4.9	0
150	CUTTING ACROSS THE NETWORK LAYERS IN THE WIRELESS ENVIRONMENT. , 2000, , .		0