

Eylem Ekici

List of Publications by Year in descending order

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129
papers

5,443
citations

201674

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106344

65
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134
all docs

134
docs citations

134
times ranked

4277
citing authors

#	ARTICLE	IF	CITATIONS
1	OneLNK. , 2022, , .		0
2	Adaptive Waveform Design for Communication-Enabled Automotive Radars. IEEE Transactions on Wireless Communications, 2022, 21, 3965-3978.	9.2	7
3	User Scheduling and Beam Alignment in mmWave Networks With a Large Number of Mobile Users. IEEE Transactions on Wireless Communications, 2021, 20, 6481-6492.	9.2	2
4	How Long to Estimate Sparse MIMO Channels. , 2021, , .		1
5	Source Coding Based Millimeter-Wave Channel Estimation With Deep Learning Based Decoding. IEEE Transactions on Communications, 2021, 69, 4751-4766.	7.8	3
6	Optimal Precoder Design for MIMO-OFDM-based Joint Automotive Radar-Communication Networks. , 2021, , .		2
7	Neighbor Discovery and MAC Protocol for Joint Automotive Radar-Communication Systems. , 2021, , .		0
8	Improved Propagation Modeling for Non-Terrestrial Networks. , 2021, , .		0
9	Is Deadline Oblivious Scheduling Efficient for Controlling Real-Time Traffic in Cellular Downlink Systems?. , 2020, , .		5
10	Enabling Communication via Automotive Radars: An Adaptive Joint Waveform Design Approach. , 2020, , .		11
11	Multi-Range Joint Automotive Radar and Communication using Pilot-based OFDM Radar. , 2020, , .		7
12	Predictive caching at the wireless edge using near-zero caches. , 2020, , .		7
13	Beam Discovery Using Linear Block Codes for Millimeter Wave Communication Networks. IEEE/ACM Transactions on Networking, 2019, 27, 1446-1459.	3.8	7
14	Shades of White: Impacts of Population Dynamics and TV Viewership on Available TV Spectrum. IEEE Transactions on Vehicular Technology, 2019, 68, 2427-2442.	6.3	11
15	Demo: A Software-Defined OFDM Radar for Joint Automotive Radar and Communication Systems. , 2019, , .		9
16	Throughput optimal random medium access control for relay networks with time-varying channels. Computer Communications, 2019, 133, 129-141.	5.1	4
17	Sequential Sensor Selection and Access Decision for Spectrum Sharing. IEEE Transactions on Aerospace and Electronic Systems, 2019, 55, 1062-1074.	4.7	1
18	Beam Alignment and User Scheduling in mmWave Networks under Mobility. , 2019, , .		3

#	ARTICLE	IF	CITATIONS
19	OFDM Pilot-Based Radar for Joint Vehicular Communication and Radar Systems. , 2018, , .		34
20	Poster: Multi-carrier Modulation on FMCW Radar for Joint Automotive Radar and Communication. , 2018, , .		5
21	Linear Block Coding for Efficient Beam Discovery in Millimeter Wave Communication Networks. , 2018, , .		11
22	Node-Based Distributed Channel Access With Enhanced Delay Characteristics. IEEE/ACM Transactions on Networking, 2018, 26, 1474-1487.	3.8	1
23	Qos-aware predictive rate allocation over heterogeneous wireless interfaces. , 2018, , .		2
24	A novel queue-length-based CSMA algorithm with improved delay characteristics. Computer Networks, 2017, 122, 56-69.	5.1	4
25	Sensor Selection Under Correlated Shadowing in Cognitive Radio Networks. IEEE Communications Letters, 2017, 21, 1633-1636.	4.1	3
26	Resource Allocation Algorithms Supporting Coexistence of Cognitive Vehicular and IEEE 802.22 Networks. IEEE Transactions on Wireless Communications, 2017, 16, 1066-1079.	9.2	28
27	Vehicular Networking in the TV White Space Band: Challenges, Opportunities, and a Media Access Control Layer of Access Issues. IEEE Vehicular Technology Magazine, 2017, 12, 52-59.	3.4	17
28	Optimal Power Allocation and Scheduling Under Jamming Attacks. IEEE/ACM Transactions on Networking, 2017, 25, 1310-1323.	3.8	51
29	Throughput-Efficient Channel Allocation Algorithms in Multi-Channel Cognitive Vehicular Networks. IEEE Transactions on Wireless Communications, 2017, 16, 757-770.	9.2	28
30	Rate maximization under reactive jamming attacks. , 2016, , .		2
31	Automotive radar and communications sharing of the 79-GHz band. , 2016, , .		7
32	Optimal spectrum utilization in joint automotive radar and communication networks. , 2016, , .		11
33	A node-based CSMA algorithm for improved delay performance in wireless networks. , 2016, , .		2
34	Spectrum sharing methods for the coexistence of multiple RF systems: A survey. Ad Hoc Networks, 2016, 53, 53-78.	5.5	32
35	A survey of MAC issues for TV white space access. Ad Hoc Networks, 2015, 27, 195-218.	5.5	21
36	Capacity Achieving Distributed Scheduling With Finite Buffers. IEEE/ACM Transactions on Networking, 2015, 23, 519-532.	3.8	5

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37	Throughput-Optimal Queue Length Based CSMA/CA Algorithm for Cognitive Radio Networks. IEEE Transactions on Mobile Computing, 2015, 14, 1098-1108.	5.8	12
38	Enabling coexistence of cognitive vehicular networks and IEEE 802.22 networks via optimal resource allocation. , 2015, , .		5
39	Distributed multiple access in multichannel cognitive radio networks via potential games. , 2015, , .		0
40	Turning foes to allies in cognitive radio networks. Ad Hoc Networks, 2015, 25, 237-250.	5.5	0
41	Collisions for secrecy in cooperative cognitive radio networks with time-varying connectivity. , 2014, , .		0
42	Throughput-efficient channel allocation in multi-channel cognitive vehicular networks. , 2014, , .		11
43	Ratings for spectrum: Impacts of TV viewership on TV whitespace. , 2014, , .		6
44	Cooperative Spectrum Sensing in Cognitive Radio Networks Using Multidimensional Correlations. IEEE Transactions on Wireless Communications, 2014, 13, 1832-1843.	9.2	48
45	Performance Analysis of Multi-Branch Multi-Hop Wireless Relay Systems over Log-Normal Channels. IEEE Transactions on Wireless Communications, 2014, 13, 223-233.	9.2	10
46	Distributed Scheduling and Its Asymptotic Analysis for Cognitive Radio Networks Under the Many-Channel Regime. IEEE Transactions on Vehicular Technology, 2014, 63, 4053-4063.	6.3	0
47	Maximizing System Throughput by Cooperative Sensing in Cognitive Radio Networks. IEEE/ACM Transactions on Networking, 2014, 22, 1245-1256.	3.8	29
48	Scheduling in Multihop Wireless Networks Without Back-Pressure. IEEE/ACM Transactions on Networking, 2014, 22, 1477-1488.	3.8	7
49	A New Outlook on Routing in Cognitive Radio Networks: Minimum-Maintenance-Cost Routing. IEEE/ACM Transactions on Networking, 2013, 21, 1484-1498.	3.8	12
50	Optimal Scheduling and Power Allocation in Cooperate-to-Join Cognitive Radio Networks. IEEE/ACM Transactions on Networking, 2013, 21, 1708-1721.	3.8	12
51	Delay-Guaranteed Cross-Layer Scheduling in Multihop Wireless Networks. IEEE/ACM Transactions on Networking, 2013, 21, 1696-1707.	3.8	25
52	Comprehensive Real-Time Simulation of the Smart Grid. IEEE Transactions on Industry Applications, 2013, 49, 899-908.	4.9	76
53	Cross-Layer Scheduling for Cooperative Multi-Hop Cognitive Radio Networks. IEEE Journal on Selected Areas in Communications, 2013, 31, 534-543.	14.0	16
54	v(t) CSMA. , 2013, , .		1

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55	Maximizing social welfare in operator-based Cognitive Radio Networks under spectrum uncertainty and sensing inaccuracy. , 2013, , .		8
56	Power Optimal Control in Multihop Wireless Networks With Finite Buffers. IEEE Transactions on Vehicular Technology, 2013, 62, 1329-1339.	6.3	5
57	Maximizing system throughput using cooperative sensing in multi-channel cognitive radio networks. , 2012, , .		6
58	Performance Analysis of Cooperative Time Hopping UWB Systems with Multi-User Interference. IEEE Transactions on Wireless Communications, 2012, 11, 1969-1975.	9.2	8
59	Outage analysis of cooperative TH UWB systems. , 2012, , .		0
60	Maximizing system throughput by cooperative sensing in Cognitive Radio Networks. , 2012, , .		9
61	Applications and performance of a nanoreceiver with a carbon nanotube antenna forest. IEEE Wireless Communications, 2012, 19, 52-57.	9.0	6
62	On reducing delay and temporal starvation of queue-length-based CSMA algorithms. , 2012, , .		7
63	Mobility management for efficient data delivery in infrastructure-to-vehicle networks. Computer Communications, 2012, 35, 2274-2280.	5.1	6
64	Multiple access game with a cognitive jammer. , 2012, , .		9
65	Capacity Analysis of Log-Normal Channels Under Various Adaptive Transmission Schemes. IEEE Communications Letters, 2012, 16, 346-348.	4.1	24
66	Guaranteed opportunistic scheduling in multi-hop cognitive radio networks. , 2011, , .		20
67	Single Hop IEEE 802.11 DCF Analysis Revisited: Accurate Modeling of Channel Access Delay and Throughput for Saturated and Unsaturated Traffic Cases. IEEE Transactions on Wireless Communications, 2011, 10, 3256-3266.	9.2	96
68	PHEVs charging stations, communications, and control simulation in real time. , 2011, , .		12
69	Real time simulation for the study on smart grid. , 2011, , .		12
70	Delay-Aware Cross-Layer Design for Network Utility Maximization in Multi-Hop Networks. IEEE Journal on Selected Areas in Communications, 2011, 29, 951-959.	14.0	36
71	Optimal scheduling in cooperate-to-join Cognitive Radio Networks. , 2011, , .		36
72	Performance of Highly Mobile Cognitive Radio Networks with Directional Antennas. , 2011, , .		2

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73	BER Analysis of Threshold Digital Relaying Schemes over Log-Normal Fading Channels. IEEE Communications Letters, 2011, 15, 731-733.	4.1	12
74	Correction to 'BER Analysis of Threshold Digital Relaying Schemes over Log-Normal Fading Channels' [Jul 11 731-733]. IEEE Communications Letters, 2011, 15, 1262-1262.	4.1	0
75	Vehicular Networking: A Survey and Tutorial on Requirements, Architectures, Challenges, Standards and Solutions. IEEE Communications Surveys and Tutorials, 2011, 13, 584-616.	39.4	1,229
76	Routing in cognitive radio networks: Challenges and solutions. Ad Hoc Networks, 2011, 9, 228-248.	5.5	257
77	A survey of cross-layer design for VANETs. Ad Hoc Networks, 2011, 9, 966-983.	5.5	82
78	Power Control for AP-Based Wireless Networks under the SINR Interference Model: Complexity and Efficient Algorithm Development. , 2011, , .		1
79	Optimal Power Allocation in Multi-Hop Wireless Networks with Finite Buffers. , 2011, , .		11
80	<title>A fuzzy logic approach to cross-layer route optimization in multi-hop CRNs&/title>. Proceedings of SPIE, 2010, , .	0.8	0
81	PROMPT: A cross-layer position-based communication protocol for delay-aware vehicular access networks. Ad Hoc Networks, 2010, 8, 489-505.	5.5	47
82	A nanoradio architecture for interacting nanonetworking tasks. Nano Communication Networks, 2010, 1, 63-75.	2.9	39
83	Design and analysis of systems based on RF receivers with multiple carbon nanotube antennas. Nano Communication Networks, 2010, 1, 160-172.	2.9	14
84	Wireless Heterogeneous Networks and Next Generation Internet. Mobile Networks and Applications, 2010, 15, 607-609.	3.3	3
85	Supporting real-time traffic in multihop vehicle-to-infrastructure networks. Transportation Research Part C: Emerging Technologies, 2010, 18, 376-392.	7.6	19
86	Backward-Compatible Dynamic Spectrum Leasing for 802.11-Based Wireless Networks. , 2010, , .		2
87	A low complexity timing jitter compensation method for low rate IR-UWB systems. , 2010, , .		0
88	SAND: Sectorized-Antenna Neighbor Discovery Protocol for Wireless Networks. , 2010, , .		46
89	On Multihop Distances in Wireless Sensor Networks with Random Node Locations. IEEE Transactions on Mobile Computing, 2010, 9, 540-552.	5.8	66
90	Opportunistic Periodic MAC Protocol for Cognitive Radio Networks. , 2010, , .		21

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91	Scheduling in multihop wireless networks without back-pressure. , 2010, , .		13
92	SAMAC: A Cross-Layer Communication Protocol for Sensor Networks with Sectorized Antennas. IEEE Transactions on Mobile Computing, 2010, 9, 1072-1088.	5.8	37
93	Networking over multi-hop cognitive networks [Guest Editorial. IEEE Network, 2009, 23, 4-5.	6.9	5
94	Minimum maintenance cost routing in Cognitive Radio Networks. , 2009, , .		41
95	Location- and delay-aware cross-layer communication in V2I multihop vehicular networks. , 2009, 47, 112-118.		30
96	A Benchmark System for Comparing Reliability Modeling Approaches for Digital Instrumentation and Control Systems. Nuclear Technology, 2009, 165, 53-95.	1.2	17
97	Wireless Access in Vehicular Environments. Eurasip Journal on Wireless Communications and Networking, 2009, 2009, .	2.4	14
98	An efficient and flexible MPLS signaling framework for mobile networks. Wireless Networks, 2008, 14, 859-875.	3.0	2
99	Performance Optimization of Interference-Limited Multihop Networks. IEEE/ACM Transactions on Networking, 2008, 16, 1147-1160.	3.8	10
100	An Integrated Wireless Intersection Simulator for collision warning systems in vehicular networks. , 2008, , .		7
101	Black-Burst-Based Multihop Broadcast Protocols for Vehicular Networks. IEEE Transactions on Vehicular Technology, 2007, 56, 3159-3167.	6.3	115
102	Orchestration of Network-Wide Active Measurements for Supporting Distributed Computing Applications. IEEE Transactions on Computers, 2007, 56, 1629-1642.	3.4	15
103	A Receiver Oriented MAC Protocol for Wireless Sensor Networks. , 2007, , .		13
104	A "GAP-model" based framework for online VoIP QoE measurement. Journal of Communications and Networks, 2007, 9, 446-456.	2.6	40
105	Cross-Layer Collaborative In-Network Processing in Multihop Wireless Sensor Networks. IEEE Transactions on Mobile Computing, 2007, 6, 297-310.	5.8	76
106	Probability distribution of multi-hop-distance in one-dimensional sensor networks. Computer Networks, 2007, 51, 3727-3749.	5.1	28
107	Real-time multimedia processing in video sensor networks. Signal Processing: Image Communication, 2007, 22, 237-251.	3.2	26
108	Cluster-based information processing in wireless sensor networks: an energy-aware approach. Wireless Communications and Mobile Computing, 2007, 7, 893-907.	1.2	11

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109	Hop-distance based addressing and routing for dense sensor networks without location information. <i>Ad Hoc Networks</i> , 2007, 5, 486-503.	5.5	7
110	Measuring Interaction QoE in Internet Videoconferencing. <i>Lecture Notes in Computer Science</i> , 2007, , 14-25.	1.3	15
111	Throughput and delay optimization in interference-limited multihop networks. , 2006, , .		11
112	MMSPEED: multipath Multi-SPEED protocol for QoS guarantee of reliability and. Timeliness in wireless sensor networks. <i>IEEE Transactions on Mobile Computing</i> , 2006, 5, 738-754.	5.8	657
113	Location Verification using Communication Range Variation for Wireless Sensor Networks. , 2006, , .		5
114	A Probabilistic Approach to Location Verification in Wireless Sensor Networks. , 2006, , .		21
115	Data harvesting with mobile elements in wireless sensor networks. <i>Computer Networks</i> , 2006, 50, 3449-3465.	5.1	87
116	An Efficient Fully Ad-Hoc Multi-Hop Broadcast Protocol for Inter-Vehicular Communication Systems. , 2006, , .		56
117	A Routing Protocol for Hierarchical LEO/MEO Satellite IP Networks. <i>Wireless Networks</i> , 2005, 11, 507-521.	3.0	103
118	QoS-Based Routing in Wireless Mobile Networks. , 2005, , 342-364.		1
119	Analysis of hop-distance relationship in spatially random sensor networks. , 2005, , .		32
120	A new high throughput internet access protocol for vehicular networks. , 2005, , .		6
121	BGP-S: A Protocol for Terrestrial and Satellite Network Integration in Network Layer. <i>Wireless Networks</i> , 2004, 10, 595-605.	3.0	10
122	On signaling performance bounds of location management in Next Generation Wireless Networks. <i>Computer Networks</i> , 2004, 46, 797-816.	5.1	2
123	Urban multi-hop broadcast protocol for inter-vehicle communication systems. , 2004, , .		504
124	A Distributed Multicast Routing Scheme for Multi-Layered Satellite IP Networks. <i>Wireless Networks</i> , 2003, 9, 535-544.	3.0	28
125	MLSR: a novel routing algorithm for multilayered satellite IP networks. <i>IEEE/ACM Transactions on Networking</i> , 2002, 10, 411-424.	3.8	171
126	A multicast routing algorithm for LEO satellite IP networks. <i>IEEE/ACM Transactions on Networking</i> , 2002, 10, 183-192.	3.8	83

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127	Satellite grouping and routing protocol for LEO/MEO satellite IP networks. , 2002, , .		52
128	A distributed routing algorithm for datagram traffic in LEO satellite networks. IEEE/ACM Transactions on Networking, 2001, 9, 137-147.	3.8	299
129	Multi-Tier Cellular Network Dimensioning. Wireless Networks, 2001, 7, 401-411.	3.0	26