

Eylem Ekici

List of Publications by Year in descending order

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129
papers

5,443
citations

201674

27
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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	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
2	MMSPEED: multipath Multi-SPEED protocol for QoS guarantee of reliability and. Timeliness in wireless sensor networks. IEEE Transactions on Mobile Computing, 2006, 5, 738-754.	5.8	657
3	Urban multi-hop broadcast protocol for inter-vehicle communication systems. , 2004, , .		504
4	A distributed routing algorithm for datagram traffic in LEO satellite networks. IEEE/ACM Transactions on Networking, 2001, 9, 137-147.	3.8	299
5	Routing in cognitive radio networks: Challenges and solutions. Ad Hoc Networks, 2011, 9, 228-248.	5.5	257
6	MLSR: a novel routing algorithm for multilayered satellite IP networks. IEEE/ACM Transactions on Networking, 2002, 10, 411-424.	3.8	171
7	Black-Burst-Based Multihop Broadcast Protocols for Vehicular Networks. IEEE Transactions on Vehicular Technology, 2007, 56, 3159-3167.	6.3	115
8	A Routing Protocol for Hierarchical LEO/MEO Satellite IP Networks. Wireless Networks, 2005, 11, 507-521.	3.0	103
9	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
10	Data harvesting with mobile elements in wireless sensor networks. Computer Networks, 2006, 50, 3449-3465.	5.1	87
11	A multicast routing algorithm for LEO satellite IP networks. IEEE/ACM Transactions on Networking, 2002, 10, 183-192.	3.8	83
12	A survey of cross-layer design for VANETs. Ad Hoc Networks, 2011, 9, 966-983.	5.5	82
13	Cross-Layer Collaborative In-Network Processing in Multihop Wireless Sensor Networks. IEEE Transactions on Mobile Computing, 2007, 6, 297-310.	5.8	76
14	Comprehensive Real-Time Simulation of the Smart Grid. IEEE Transactions on Industry Applications, 2013, 49, 899-908.	4.9	76
15	On Multihop Distances in Wireless Sensor Networks with Random Node Locations. IEEE Transactions on Mobile Computing, 2010, 9, 540-552.	5.8	66
16	An Efficient Fully Ad-Hoc Multi-Hop Broadcast Protocol for Inter-Vehicular Communication Systems. , 2006, , .		56
17	Satellite grouping and routing protocol for LEO/MEO satellite IP networks. , 2002, , .		52
18	Optimal Power Allocation and Scheduling Under Jamming Attacks. IEEE/ACM Transactions on Networking, 2017, 25, 1310-1323.	3.8	51

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19	Cooperative Spectrum Sensing in Cognitive Radio Networks Using Multidimensional Correlations. IEEE Transactions on Wireless Communications, 2014, 13, 1832-1843.	9.2	48
20	PROMPT: A cross-layer position-based communication protocol for delay-aware vehicular access networks. Ad Hoc Networks, 2010, 8, 489-505.	5.5	47
21	SAND: Sectored-Antenna Neighbor Discovery Protocol for Wireless Networks. , 2010, , .		46
22	Minimum maintenance cost routing in Cognitive Radio Networks. , 2009, , .		41
23	A "GAP-model" based framework for online VoIP QoE measurement. Journal of Communications and Networks, 2007, 9, 446-456.	2.6	40
24	A nanoradio architecture for interacting nanonetworking tasks. Nano Communication Networks, 2010, 1, 63-75.	2.9	39
25	SAMAC: A Cross-Layer Communication Protocol for Sensor Networks with Sectored Antennas. IEEE Transactions on Mobile Computing, 2010, 9, 1072-1088.	5.8	37
26	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
27	Optimal scheduling in cooperate-to-join Cognitive Radio Networks. , 2011, , .		36
28	OFDM Pilot-Based Radar for Joint Vehicular Communication and Radar Systems. , 2018, , .		34
29	Analysis of hop-distance relationship in spatially random sensor networks. , 2005, , .		32
30	Spectrum sharing methods for the coexistence of multiple RF systems: A survey. Ad Hoc Networks, 2016, 53, 53-78.	5.5	32
31	Location- and delay-aware cross-layer communication in V2I multihop vehicular networks. , 2009, 47, 112-118.		30
32	Maximizing System Throughput by Cooperative Sensing in Cognitive Radio Networks. IEEE/ACM Transactions on Networking, 2014, 22, 1245-1256.	3.8	29
33	A Distributed Multicast Routing Scheme for Multi-Layered Satellite IP Networks. Wireless Networks, 2003, 9, 535-544.	3.0	28
34	Probability distribution of multi-hop-distance in one-dimensional sensor networks. Computer Networks, 2007, 51, 3727-3749.	5.1	28
35	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
36	Throughput-Efficient Channel Allocation Algorithms in Multi-Channel Cognitive Vehicular Networks. IEEE Transactions on Wireless Communications, 2017, 16, 757-770.	9.2	28

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37	Multi-Tier Cellular Network Dimensioning. <i>Wireless Networks</i> , 2001, 7, 401-411.	3.0	26
38	Real-time multimedia processing in video sensor networks. <i>Signal Processing: Image Communication</i> , 2007, 22, 237-251.	3.2	26
39	Delay-Guaranteed Cross-Layer Scheduling in Multihop Wireless Networks. <i>IEEE/ACM Transactions on Networking</i> , 2013, 21, 1696-1707.	3.8	25
40	Capacity Analysis of Log-Normal Channels Under Various Adaptive Transmission Schemes. <i>IEEE Communications Letters</i> , 2012, 16, 346-348.	4.1	24
41	A Probabilistic Approach to Location Verification in Wireless Sensor Networks. , 2006, , .		21
42	Opportunistic Periodic MAC Protocol for Cognitive Radio Networks. , 2010, , .		21
43	A survey of MAC issues for TV white space access. <i>Ad Hoc Networks</i> , 2015, 27, 195-218.	5.5	21
44	Guaranteed opportunistic scheduling in multi-hop cognitive radio networks. , 2011, , .		20
45	Supporting real-time traffic in multihop vehicle-to-infrastructure networks. <i>Transportation Research Part C: Emerging Technologies</i> , 2010, 18, 376-392.	7.6	19
46	A Benchmark System for Comparing Reliability Modeling Approaches for Digital Instrumentation and Control Systems. <i>Nuclear Technology</i> , 2009, 165, 53-95.	1.2	17
47	Vehicular Networking in the TV White Space Band: Challenges, Opportunities, and a Media Access Control Layer of Access Issues. <i>IEEE Vehicular Technology Magazine</i> , 2017, 12, 52-59.	3.4	17
48	Cross-Layer Scheduling for Cooperative Multi-Hop Cognitive Radio Networks. <i>IEEE Journal on Selected Areas in Communications</i> , 2013, 31, 534-543.	14.0	16
49	Orchestration of Network-Wide Active Measurements for Supporting Distributed Computing Applications. <i>IEEE Transactions on Computers</i> , 2007, 56, 1629-1642.	3.4	15
50	Measuring Interaction QoE in Internet Videoconferencing. <i>Lecture Notes in Computer Science</i> , 2007, , 14-25.	1.3	15
51	Wireless Access in Vehicular Environments. <i>Eurasip Journal on Wireless Communications and Networking</i> , 2009, 2009, , .	2.4	14
52	Design and analysis of systems based on RF receivers with multiple carbon nanotube antennas. <i>Nano Communication Networks</i> , 2010, 1, 160-172.	2.9	14
53	A Receiver Oriented MAC Protocol for Wireless Sensor Networks. , 2007, , , .		13
54	Scheduling in multihop wireless networks without back-pressure. , 2010, , , .		13

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55	PHEVs charging stations, communications, and control simulation in real time. , 2011, , .		12
56	Real time simulation for the study on smart grid. , 2011, , .		12
57	BER Analysis of Threshold Digital Relaying Schemes over Log-Normal Fading Channels. IEEE Communications Letters, 2011, 15, 731-733.	4.1	12
58	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
59	Optimal Scheduling and Power Allocation in Cooperate-to-Join Cognitive Radio Networks. IEEE/ACM Transactions on Networking, 2013, 21, 1708-1721.	3.8	12
60	Throughput-Optimal Queue Length Based CSMA/CA Algorithm for Cognitive Radio Networks. IEEE Transactions on Mobile Computing, 2015, 14, 1098-1108.	5.8	12
61	Throughput and delay optimization in interference-limited multihop networks. , 2006, , .		11
62	Cluster-based information processing in wireless sensor networks: an energy-aware approach. Wireless Communications and Mobile Computing, 2007, 7, 893-907.	1.2	11
63	Optimal Power Allocation in Multi-Hop Wireless Networks with Finite Buffers. , 2011, , .		11
64	Throughput-efficient channel allocation in multi-channel cognitive vehicular networks. , 2014, , .		11
65	Optimal spectrum utilization in joint automotive radar and communication networks. , 2016, , .		11
66	Linear Block Coding for Efficient Beam Discovery in Millimeter Wave Communication Networks. , 2018, , .		11
67	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
68	Enabling Communication via Automotive Radars: An Adaptive Joint Waveform Design Approach. , 2020, , .		11
69	BGP-S: A Protocol for Terrestrial and Satellite Network Integration in Network Layer. Wireless Networks, 2004, 10, 595-605.	3.0	10
70	Performance Optimization of Interference-Limited Multihop Networks. IEEE/ACM Transactions on Networking, 2008, 16, 1147-1160.	3.8	10
71	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
72	Maximizing system throughput by cooperative sensing in Cognitive Radio Networks. , 2012, , .		9

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73	Multiple access game with a cognitive jammer. , 2012, , .		9
74	Demo: A Software-Defined OFDM Radar for Joint Automotive Radar and Communication Systems. , 2019, , .		9
75	Performance Analysis of Cooperative Time Hopping UWB Systems with Multi-User Interference. IEEE Transactions on Wireless Communications, 2012, 11, 1969-1975.	9.2	8
76	Maximizing social welfare in operator-based Cognitive Radio Networks under spectrum uncertainty and sensing inaccuracy. , 2013, , .		8
77	Hop-distance based addressing and routing for dense sensor networks without location information. Ad Hoc Networks, 2007, 5, 486-503.	5.5	7
78	An Integrated Wireless Intersection Simulator for collision warning systems in vehicular networks. , 2008, , .		7
79	On reducing delay and temporal starvation of queue-length-based CSMA algorithms. , 2012, , .		7
80	Scheduling in Multihop Wireless Networks Without Back-Pressure. IEEE/ACM Transactions on Networking, 2014, 22, 1477-1488.	3.8	7
81	Automotive radar and communications sharing of the 79-GHz band. , 2016, , .		7
82	Beam Discovery Using Linear Block Codes for Millimeter Wave Communication Networks. IEEE/ACM Transactions on Networking, 2019, 27, 1446-1459.	3.8	7
83	Multi-Range Joint Automotive Radar and Communication using Pilot-based OFDM Radar. , 2020, , .		7
84	Predictive caching at the wireless edge using near-zero caches. , 2020, , .		7
85	Adaptive Waveform Design for Communication-Enabled Automotive Radars. IEEE Transactions on Wireless Communications, 2022, 21, 3965-3978.	9.2	7
86	A new high throughput internet access protocol for vehicular networks. , 2005, , .		6
87	Maximizing system throughput using cooperative sensing in multi-channel cognitive radio networks. , 2012, , .		6
88	Applications and performance of a nanoreceiver with a carbon nanotube antenna forest. IEEE Wireless Communications, 2012, 19, 52-57.	9.0	6
89	Mobility management for efficient data delivery in infrastructure-to-vehicle networks. Computer Communications, 2012, 35, 2274-2280.	5.1	6
90	Ratings for spectrum: Impacts of TV viewership on TV whitespace. , 2014, , .		6

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91	Location Verification using Communication Range Variation for Wireless Sensor Networks. , 2006, , .		5
92	Networking over multi-hop cognitive networks [Guest Editorial. IEEE Network, 2009, 23, 4-5.	6.9	5
93	Power Optimal Control in Multihop Wireless Networks With Finite Buffers. IEEE Transactions on Vehicular Technology, 2013, 62, 1329-1339.	6.3	5
94	Capacity Achieving Distributed Scheduling With Finite Buffers. IEEE/ACM Transactions on Networking, 2015, 23, 519-532.	3.8	5
95	Enabling coexistence of cognitive vehicular networks and IEEE 802.22 networks via optimal resource allocation. , 2015, , .		5
96	Poster: Multi-carrier Modulation on FMCW Radar for Joint Automotive Radar and Communication. , 2018, , .		5
97	Is Deadline Oblivious Scheduling Efficient for Controlling Real-Time Traffic in Cellular Downlink Systems?. , 2020, , .		5
98	A novel queue-length-based CSMA algorithm with improved delay characteristics. Computer Networks, 2017, 122, 56-69.	5.1	4
99	Throughput optimal random medium access control for relay networks with time-varying channels. Computer Communications, 2019, 133, 129-141.	5.1	4
100	Wireless Heterogeneous Networks and Next Generation Internet. Mobile Networks and Applications, 2010, 15, 607-609.	3.3	3
101	Sensor Selection Under Correlated Shadowing in Cognitive Radio Networks. IEEE Communications Letters, 2017, 21, 1633-1636.	4.1	3
102	Source Coding Based Millimeter-Wave Channel Estimation With Deep Learning Based Decoding. IEEE Transactions on Communications, 2021, 69, 4751-4766.	7.8	3
103	Beam Alignment and User Scheduling in mmWave Networks under Mobility. , 2019, , .		3
104	On signaling performance bounds of location management in Next Generation Wireless Networks. Computer Networks, 2004, 46, 797-816.	5.1	2
105	An efficient and flexible MPLS signaling framework for mobile networks. Wireless Networks, 2008, 14, 859-875.	3.0	2
106	Backward-Compatible Dynamic Spectrum Leasing for 802.11-Based Wireless Networks. , 2010, , .		2
107	Performance of Highly Mobile Cognitive Radio Networks with Directional Antennas. , 2011, , .		2
108	Rate maximization under reactive jamming attacks. , 2016, , .		2

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109	A node-based CSMA algorithm for improved delay performance in wireless networks. , 2016, , .		2
110	Qos-aware predictive rate allocation over heterogeneous wireless interfaces. , 2018, , .		2
111	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
112	Optimal Precoder Design for MIMO-OFDM-based Joint Automotive Radar-Communication Networks. , 2021, , .		2
113	QoS-Based Routing in Wireless Mobile Networks. , 2005, , 342-364.		1
114	Power Control for AP-Based Wireless Networks under the SINR Interference Model: Complexity and Efficient Algorithm Development. , 2011, , .		1
115	v(t) CSMA. , 2013, , .		1
116	Node-Based Distributed Channel Access With Enhanced Delay Characteristics. IEEE/ACM Transactions on Networking, 2018, 26, 1474-1487.	3.8	1
117	Sequential Sensor Selection and Access Decision for Spectrum Sharing. IEEE Transactions on Aerospace and Electronic Systems, 2019, 55, 1062-1074.	4.7	1
118	How Long to Estimate Sparse MIMO Channels. , 2021, , .		1
119	<title>A fuzzy logic approach to cross-layer route optimization in multi-hop CRNs</title>. Proceedings of SPIE, 2010, , .	0.8	0
120	A low complexity timing jitter compensation method for low rate IR-UWB systems. , 2010, , .		0
121	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
122	Outage analysis of cooperative TH UWB systems. , 2012, , .		0
123	Collisions for secrecy in cooperative cognitive radio networks with time-varying connectivity. , 2014, , .		0
124	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
125	Distributed multiple access in multichannel cognitive radio networks via potential games. , 2015, , .		0
126	Turning foes to allies in cognitive radio networks. Ad Hoc Networks, 2015, 25, 237-250.	5.5	0

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127	OneLNK. , 2022, , .		0
128	Neighbor Discovery and MAC Protocol for Joint Automotive Radar-Communication Systems. , 2021, , .		0
129	Improved Propagation Modeling for Non-Terrestrial Networks. , 2021, , .		0