Eylem Ekici

List of Publications by Citations

114 papers	3,991 citations	27 h-index	61 g-index
134 ext. papers	4,796 ext. citations	5.2 avg, IF	5.52 L-index

#	Paper	IF	Citations
114	. *IEEE Communications Surveys and Tutorials*, **2011**, 13, 584-616	37.1	961
113	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	4.6	477
112	Urban multi-hop broadcast protocol for inter-vehicle communication systems **2004**,		379
111	Routing in cognitive radio networks: Challenges and solutions. *Ad Hoc Networks*, **2011**, 9, 228-248	4.8	186
110	A distributed routing algorithm for datagram traffic in LEO satellite networks. *IEEE/ACM Transactions on Networking*, **2001**, 9, 137-147	3.8	184
109	MLSR: a novel routing algorithm for multilayered satellite IP networks. *IEEE/ACM Transactions on Networking*, **2002**, 10, 411-424	3.8	104
108	Black-Burst-Based Multihop Broadcast Protocols for Vehicular Networks. *IEEE Transactions on Vehicular Technology*, **2007**, 56, 3159-3167	6.8	96
107	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	9.6	76
106	Data harvesting with mobile elements in wireless sensor networks. *Computer Networks*, **2006**, 50, 3449-3465	3.4	74
105	Comprehensive Real-Time Simulation of the Smart Grid. *IEEE Transactions on Industry Applications*, **2013**, 49, 899-908	4.3	65
104	A Routing Protocol for Hierarchical LEO/MEO Satellite IP Networks. *Wireless Networks*, **2005**, 11, 507-521	1.5	64
103	A survey of cross-layer design for VANETs. *Ad Hoc Networks*, **2011**, 9, 966-983	4.8	58
102	Cross-Layer Collaborative In-Network Processing in Multihop Wireless Sensor Networks. *IEEE Transactions on Mobile Computing*, **2007**, 6, 297-310	4.6	56
101	On Multihop Distances in Wireless Sensor Networks with Random Node Locations. *IEEE Transactions on Mobile Computing*, **2010**, 9, 540-552	4.6	54
100	PROMPT: A cross-layer position-based communication protocol for delay-aware vehicular access networks. *Ad Hoc Networks*, **2010**, 8, 489-505	4.8	43
99	A multicast routing algorithm for LEO satellite IP networks. *IEEE/ACM Transactions on Networking*, **2002**, 10, 183-192	3.8	43
98	Optimal Power Allocation and Scheduling Under Jamming Attacks. *IEEE/ACM Transactions on Networking*, **2017**, 25, 1310-1323	3.8	37

97	SAND: Sectored-Antenna Neighbor Discovery Protocol for Wireless Networks **2010**,		37
96	An Efficient Fully Ad-Hoc Multi-Hop Broadcast Protocol for Inter-Vehicular Communication Systems **2006**,		37
95	Delay-Aware Cross-Layer Design for Network Utility Maximization in Multi-Hop Networks. *IEEE Journal on Selected Areas in Communications*, **2011**, 29, 951-959	14.2	32
94	Satellite grouping and routing protocol for LEO/MEO satellite IP networks **2002**,		32
93	SAMAC: A Cross-Layer Communication Protocol for Sensor Networks with Sectored Antennas. *IEEE Transactions on Mobile Computing*, **2010**, 9, 1072-1088	4.6	31
92	Cooperative Spectrum Sensing in Cognitive Radio Networks Using Multidimensional Correlations. *IEEE Transactions on Wireless Communications*, **2014**, 13, 1832-1843	9.6	30
91	Optimal scheduling in cooperate-to-join Cognitive Radio Networks **2011**,		30
90	Minimum maintenance cost routing in Cognitive Radio Networks **2009**,		29
89	A nanoradio architecture for interacting nanonetworking tasks. *Nano Communication Networks*, **2010**, 1, 63-75	2.9	29
88	A □AP-model□based framework for online VVoIP QoE measurement. *Journal of Communications and Networks*, **2007**, 9, 446-456	4.1	28
87	Analysis of hop-distance relationship in spatially random sensor networks **2005**,		26
86	Probability distribution of multi-hop-distance in one-dimensional sensor networks. *Computer Networks*, **2007**, 51, 3727-3749	5.4	23
85	Resource Allocation Algorithms Supporting Coexistence of Cognitive Vehicular and IEEE 802.22 Networks. *IEEE Transactions on Wireless Communications*, **2017**, 16, 1066-1079	9.6	22
84	Spectrum sharing methods for the coexistence of multiple RF systems: A survey. *Ad Hoc Networks*, **2016**, 53, 53-78	4.8	22
83	Maximizing System Throughput by Cooperative Sensing in Cognitive Radio Networks. *IEEE/ACM Transactions on Networking*, **2014**, 22, 1245-1256	3.8	22
82	Delay-Guaranteed Cross-Layer Scheduling in Multihop Wireless Networks. *IEEE/ACM Transactions on Networking*, **2013**, 21, 1696-1707	3.8	21
81	Location- and delay-aware cross-layer communication in V2I multihop vehicular networks **2009**, 47, 112-118		21
80	Capacity Analysis of Log-Normal Channels Under Various Adaptive Transmission Schemes. *IEEE Communications Letters*, **2012**, 16, 346-348	3.8	20

79	Multi-Tier Cellular Network Dimensioning. *Wireless Networks*, **2001**, 7, 401-411	2.5	19
78	Throughput-Efficient Channel Allocation Algorithms in Multi-Channel Cognitive Vehicular Networks. *IEEE Transactions on Wireless Communications*, **2017**, 16, 757-770	9.6	18
77	A survey of MAC issues for TV white space access. *Ad Hoc Networks*, **2015**, 27, 195-218	4.8	17
76	Guaranteed opportunistic scheduling in multi-hop cognitive radio networks **2011**,		17
75	Supporting real-time traffic in multihop vehicle-to-infrastructure networks. *Transportation Research Part C: Emerging Technologies*, **2010**, 18, 376-392	8.4	17
74	Real-time multimedia processing in video sensor networks. *Signal Processing: Image Communication*, **2007**, 22, 237-251	2.8	16
73	Opportunistic Periodic MAC Protocol for Cognitive Radio Networks **2010**,		15
72	A Benchmark System for Comparing Reliability Modeling Approaches for Digital Instrumentation and Control Systems. *Nuclear Technology*, **2009**, 165, 53-95	1.4	15
71	A Probabilistic Approach to Location Verification in Wireless Sensor Networks **2006**,		14
70	A Distributed Multicast Routing Scheme for Multi-Layered Satellite IP Networks. *Wireless Networks*, **2003**, 9, 535-544	2.5	14
69	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	9.9	13
68	Orchestration of Network-Wide Active Measurements for Supporting Distributed Computing Applications. *IEEE Transactions on Computers*, **2007**, 56, 1629-1642	2.5	13
67	Cross-Layer Scheduling for Cooperative Multi-Hop Cognitive Radio Networks. *IEEE Journal on Selected Areas in Communications*, **2013**, 31, 534-543	14.2	12
66	Wireless Access in Vehicular Environments. *Eurasip Journal on Wireless Communications and Networking*, **2009**, 2009,	3.2	12
65	OFDM Pilot-Based Radar for Joint Vehicular Communication and Radar Systems **2018**,		12
64	A New Outlook on Routing in Cognitive Radio Networks: Minimum-Maintenance-Cost Routing. *IEEE/ACM Transactions on Networking*, **2013**, 21, 1484-1498	3.8	11
63	. *IEEE/ACM Transactions on Networking*, **2013**, 21, 1708-1721	3.8	11
62	Design and analysis of systems based on RF receivers with multiple carbon nanotube antennas. *Nano Communication Networks*, **2010**, 1, 160-172	2.9	11

61	A Receiver Oriented MAC Protocol for Wireless Sensor Networks **2007**,		10
60	Measuring Interaction QoE in Internet Videoconferencing. *Lecture Notes in Computer Science*, **2007**, 14-25.	0.9	10
59	Shades of White: Impacts of Population Dynamics and TV Viewership on Available TV Spectrum. *IEEE Transactions on Vehicular Technology*, **2019**, 68, 2427-2442	6.8	9
58	Performance Analysis of Multi-Branch Multi-Hop Wireless Relay Systems over Log-Normal Channels. *IEEE Transactions on Wireless Communications*, **2014**, 13, 223-233	9.6	9
57	Maximizing system throughput by cooperative sensing in Cognitive Radio Networks **2012**,		9
56	**2011**,		9
55	**2011**,		9
54	Cluster-based information processing in wireless sensor networks: an energy-aware approach. *Wireless Communications and Mobile Computing*, **2007**, 7, 893-907	1.9	9
53	Throughput and delay optimization in interference-limited multihop networks **2006**,		9
52	Linear Block Coding for Efficient Beam Discovery in Millimeter Wave Communication Networks **2018**,		9
51	Throughput-Optimal Queue Length Based CSMA/CA Algorithm for Cognitive Radio Networks. *IEEE Transactions on Mobile Computing*, **2015**, 14, 1098-1108	4.6	8
50	Throughput-efficient channel allocation in multi-channel cognitive vehicular networks **2014**,		8
49	Maximizing social welfare in operator-based Cognitive Radio Networks under spectrum uncertainty and sensing inaccuracy **2013**,		8
48	Scheduling in multihop wireless networks without back-pressure **2010**,		8
47	Optimal Power Allocation in Multi-Hop Wireless Networks with Finite Buffers **2011**,		8
46	Optimal spectrum utilization in joint automotive radar and communication networks **2016**,		8
45	Multiple access game with a cognitive jammer **2012**,		7
44	BER Analysis of Threshold Digital Relaying Schemes over Log-Normal Fading Channels. *IEEE Communications Letters*, **2011**, 15, 731-733	3.8	7

43	An Integrated Wireless Intersection Simulator for collision warning systems in vehicular networks **2008**,		7
42	Performance Analysis of Cooperative Time Hopping UWB Systems with Multi-User Interference. *IEEE Transactions on Wireless Communications*, **2012**, 11, 1969-1975	9.6	6
41	Maximizing system throughput using cooperative sensing in multi-channel cognitive radio networks **2012**,		6
40	Performance Optimization of Interference-Limited Multihop Networks. *IEEE/ACM Transactions on Networking*, **2008**, 16, 1147-1160	3.8	6
39	Hop-distance based addressing and routing for dense sensor networks without location information. *Ad Hoc Networks*, **2007**, 5, 486-503	4.8	6
38	BGP-S: A Protocol for Terrestrial and Satellite Network Integration in Network Layer. *Wireless Networks*, **2004**, 10, 595-605	2.5	6
37	A new high throughput internet access protocol for vehicular networks **2005**,		6
36	Automotive radar and communications sharing of the 79-GHz band **2016**,		6
35	Enabling coexistence of cognitive vehicular networks and IEEE 802.22 networks via optimal resource allocation **2015**,		5
34	Scheduling in Multihop Wireless Networks Without Back-Pressure. *IEEE/ACM Transactions on Networking*, **2014**, 22, 1477-1488	3.8	5
33	On reducing delay and temporal starvation of queue-length-based CSMA algorithms **2012**,		5
32	Capacity Achieving Distributed Scheduling With Finite Buffers. *IEEE/ACM Transactions on Networking*, **2015**, 23, 519-532	3.8	4
31	Beam Discovery Using Linear Block Codes for Millimeter Wave Communication Networks. *IEEE/ACM Transactions on Networking*, **2019**, 27, 1446-1459	3.8	4
30	Ratings for spectrum: Impacts of TV viewership on TV whitespace **2014**,		4
29	Applications and performance of a nanoreceiver with a carbon nanotube antenna forest. *IEEE Wireless Communications*, **2012**, 19, 52-57	13.4	4
28	Mobility management for efficient data delivery in infrastructure-to-vehicle networks. *Computer Communications*, **2012**, 35, 2274-2280	5.1	4
27	. *IEEE Transactions on Vehicular Technology*, **2013**, 62, 1329-1339	6.8	4
26	Networking over multi-hop cognitive networks [Guest Editorial]. *IEEE Network*, **2009**, 23, 4-5	11.4	4

25	A novel queue-length-based CSMA algorithm with improved delay characteristics. *Computer Networks*, **2017**, 122, 56-69	5.4	3
24	Wireless Heterogeneous Networks and Next Generation Internet. *Mobile Networks and Applications* , **2010**, 15, 607-609	2.9	3
23	Location Verification using Communication Range Variation for Wireless Sensor Networks **2006**,		3
22	Sensor Selection Under Correlated Shadowing in Cognitive Radio Networks. *IEEE Communications Letters*, **2017**, 21, 1633-1636	3.8	2
21	Performance of Highly Mobile Cognitive Radio Networks with Directional Antennas **2011**,		2
20	Backward-Compatible Dynamic Spectrum Leasing for 802.11-Based Wireless Networks **2010**,		2
19	An efficient and flexible MPLS signaling framework for mobile networks. *Wireless Networks*, **2008**, 14, 859-875	2.5	2
18	Adaptive Waveform Design for Communication-Enabled Automotive Radars. *IEEE Transactions on Wireless Communications*, **2021**, 1-1	9.6	2
17	Multi-Range Joint Automotive Radar and Communication using Pilot-based OFDM Radar **2020**,		2
16	Enabling Communication via Automotive Radars: An Adaptive Joint Waveform Design Approach **2020**,		2
15	Throughput optimal random medium access control for relay networks with time-varying channels. *Computer Communications*, **2019**, 133, 129-141	5.1	2
14	Poster: Multi-carrier Modulation on FMCW Radar for Joint Automotive Radar and Communication **2018**,		2
13	A node-based CSMA algorithm for improved delay performance in wireless networks **2016**,		1
12	On signaling performance bounds of location management in Next Generation Wireless Networks. *Computer Networks*, **2004**, 46, 797-816	5.4	1
11	QoS-Based Routing in Wireless Mobile Networks **2005**, 342-364		1
10	Beam Alignment and User Scheduling in mmWave Networks under Mobility **2019**,		1
9	Node-Based Distributed Channel Access With Enhanced Delay Characteristics. *IEEE/ACM Transactions on Networking*, **2018**, 26, 1474-1487	3.8	1
8	Comparison of Hyper-DAG Based Task Mapping and Scheduling Heuristics for Wireless Sensor Networks. *Lecture Notes in Computer Science*, **2005**, 74-83	0.9	1

7	. *IEEE Transactions on Aerospace and Electronic Systems*, **2019**, 55, 1062-1074	3.7	0
6	User Scheduling and Beam Alignment in mmWave Networks With a Large Number of Mobile Users. *IEEE Transactions on Wireless Communications*, **2021**, 1-1	9.6	0
5	Source Coding Based Millimeter-Wave Channel Estimation With Deep Learning Based Decoding. *IEEE Transactions on Communications*, **2021**, 69, 4751-4766	6.9	0
4	Turning foes to allies in cognitive radio networks. *Ad Hoc Networks*, **2015**, 25, 237-250	4.8	
3	Distributed Scheduling and Its Asymptotic Analysis for Cognitive Radio Networks Under the Many-Channel Regime. *IEEE Transactions on Vehicular Technology*, **2014**, 63, 4053-4063	6.8	
2	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	3.8	
1	QoS-Based Communication Protocols in Wireless Sensor Networks **2008**, 365-399		