Edward W Knightly

List of Publications by Year
in descending order

51 papers	2,052 citations	623734 14 h-index	526287 27 g-index
51 all docs	51 docs citations	51 times ranked	1854 citing authors

#	Article	IF	Citations
1	Security and eavesdropping in terahertz wireless links. Nature, 2018, 563, 89-93.	27.8	279
2	IEEE 802.11ay: Next-Generation 60 GHz Communication for 100 Gb/s Wi-Fi. , 2017, 55, 186-192.		262
3	Steering with eyes closed: Mm-Wave beam steering without in-band measurement. , 2015, , .		207
4	IEEE 802.11ac: from channelization to multi-user MIMO. , 2013, 51, 84-90.		163
5	Modeling Per-Flow Throughput and Capturing Starvation in CSMA Multi-Hop Wireless Networks. IEEE/ACM Transactions on Networking, 2008, 16, 864-877.	3.8	149
6	Opportunistic Spectral Usage: Bounds and a Multi-Band CSMA/CA Protocol. IEEE/ACM Transactions on Networking, 2007, 15, 533-545.	3.8	135
7	DDoS-Shield: DDoS-Resilient Scheduling to Counter Application Layer Attacks. IEEE/ACM Transactions on Networking, 2009, 17, 26-39.	3.8	135
8	Design and experimental evaluation of multi-user beamforming in wireless LANs. , 2010, , .		132
9	Single-shot link discovery for terahertz wireless networks. Nature Communications, 2020, 11, 2017.	12.8	83
10	Mobility resilience and overhead constrained adaptation in directional 60 GHz WLANs. , 2016, , .		60
11	STROBE: Actively securing wireless communications using Zero-Forcing Beamforming. , 2012, , .		52
12	X60. , 2017, , .		33
13	Mode and user selection for multi-user MIMO WLANs without CSI. , 2015, , .		31
14	Making 802.11 DCF Near-Optimal: Design, Implementation, and Evaluation. IEEE/ACM Transactions on Networking, 2016, 24, 1745-1758.	3.8	25
15	LiRa: A WLAN Architecture for Visible Light Communication with a Wi-Fi Uplink. , 2017, , .		25
16	Cooperative Strategies and Achievable Rate for Tree Networks With Optimal Spatial Reuse. IEEE Transactions on Information Theory, 2007, 53, 3596-3614.	2.4	23
17	High-Performance Resource Allocation and Request Redirection Algorithms for Web Clusters. IEEE Transactions on Parallel and Distributed Systems, 2008, 19, 1186-1200.	5.6	23
18	Scalable Multicast in Highly-Directional 60-GHz WLANs. IEEE/ACM Transactions on Networking, 2017, 25, 2844-2857.	3.8	20

#	Article	IF	Citations
19	WARPlab. , 2010, , .		17
20	Jamming a terahertz wireless link. Nature Communications, 2022, 13, .	12.8	16
21	Architecture and Algorithms for Scalable Mobile QoS. Wireless Networks, 2003, 9, 7-20.	3.0	15
22	WATCH: WiFi in Active TV Channels. IEEE Transactions on Cognitive Communications and Networking, 2016, 2, 330-342.	7.9	15
23	Decoupling Beam Steering and User Selection for MU-MIMO 60-GHz WLANs. IEEE/ACM Transactions on Networking, 2018, 26, 2390-2403.	3.8	14
24	Wi-Fi Channel Bonding: An All-Channel System and Experimental Study From Urban Hotspots to a Sold-Out Stadium. IEEE/ACM Transactions on Networking, 2021, 29, 2101-2114.	3.8	14
25	Line-of-sight and non-line-of-sight links for dispersive terahertz wireless networks. APL Photonics, 2021, 6, 041304.	5.7	11
26	Multi-User Multi-Stream mmWave WLANs With Efficient Path Discovery and Beam Steering. IEEE Journal on Selected Areas in Communications, 2019, 37, 2744-2758.	14.0	10
27	Resource allocation for multimedia traffic flows using rate variance envelopes. Multimedia Systems, 1999, 7, 477-485.	4.7	9
28	Scalable Multicast in Highly-Directional 60 GHz WLANs. , 2016, , .		9
29	Feasibility of Passive Eavesdropping in Massive MIMO: An Experimental Approach. , 2018, , .		8
30	Pilot Distortion Attack and Zero-Startup-Cost Detection in Massive MIMO Network: From Analysis to Experiments. IEEE Transactions on Information Forensics and Security, 2018, 13, 3094-3107.	6.9	8
31	<inline-formula> <tex-math notation="LaTeX">$CSIsnoop$ </tex-math> </inline-formula>: Inferring Channel State Information in Multi-User MIMO WLANs. IEEE/ACM Transactions on Networking, 2019, 27, 231-244.	3.8	8
32	Second moment resource allocation in multi-service networks. Performance Evaluation Review, 1997, 25, 181-191.	0.6	7
33	Mobile Access of Wide-Spectrum Networks: Design, deployment and experimental evaluation. , 2013, , .		7
34	Coupled 802.11 Flows in Urban Channels: Model and Experimental Evaluation. , 2010, , .		6
35	Search Light. , 2018, , .		6
36	CSIsnoop. , 2017, , .		5

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37	Modeling Multi-User WLANs Under Closed-Loop Traffic. IEEE/ACM Transactions on Networking, 2019, 27, 763-776.	3.8	4
38	Eavesdropping in Massive MIMO: New Vulnerabilities and Countermeasures. IEEE Transactions on Wireless Communications, 2021, 20, 6536-6550.	9.2	4
39	Blue scale: Early detection of impending congestive heart failure events via wireless daily self-monitoring. , 2014, , .		3
40	Poster: X60. , 2017, , .		3
41	Wi-Fi All-Channel Analyzer. , 2020, , .		3
42	Exploiting physical layer detection techniques to mitigate starvation in CSMA/CA wireless networks. , 2007, , .		2
43	FALCON: A Networked Drone System for Sensing, Localizing, and Approaching RF Targets. IEEE Internet of Things Journal, 2022, 9, 9843-9857.	8.7	2
44	Scaling mmWave WLANs With Single RF Chain Multiuser Beamforming. IEEE/ACM Transactions on Networking, 2022, , 1-14.	3.8	2
45	An Experimental Study of Triggered Multi-User Uplink Access with Real Application Traffic. , 2022, , .		2
46	Large-Scale Urban Mesh Networks: from Deployment to Applications. Local Computer Networks (LCN), Proceedings of the IEEE Conference on, 2006, , .	0.0	1
47	Measurement-Driven Modeling of Transmission Coordination for 802.11 Online Throughput Prediction. IEEE/ACM Transactions on Networking, 2012, 20, 1635-1648.	3.8	1
48	Spoofing uplink spatial multiplexing with diverse spectrum. , 2017, , .		1
49	Massive MIMO pilot distortion attack and zero-startup-cost detection: Analysis and experiments. , 2017, , .		1
50	Spoofing Uplink Spatial Multiplexing With Diverse Spectrum. IEEE Transactions on Cognitive Communications and Networking, 2017, 3, 464-477.	7.9	1
51	uScope. , 2021, , .		0