Berk Canberk

List of Publications by Year
in descending order

94 papers	1,177 citations	687363 13 h-index	454955 30 g-index
96 all docs	96 docs citations	96 times ranked	1250 citing authors

#	Article	IF	Citations
1	SDNs in the Sky: Robust End-to-End Connectivity for Aerial Vehicular Networks. IEEE Communications Magazine, 2018, 56, 16-21.	6.1	173
2	Handover Management in Software-Defined Ultra-Dense 5G Networks. IEEE Network, 2017, 31, 49-55.	6.9	87
3	A Survey of Honeypots and Honeynets for Internet of Things, Industrial Internet of Things, and Cyber-Physical Systems. IEEE Communications Surveys and Tutorials, 2021, 23, 2351-2383.	39.4	87
4	Primary User Activity Modeling Using First-Difference Filter Clustering and Correlation in Cognitive Radio Networks. IEEE/ACM Transactions on Networking, 2011, 19, 170-183.	3.8	73
5	Machine Learning-Based Digital Twin for Predictive Modeling in Wind Turbines. IEEE Access, 2022, 10, 14184-14194.	4.2	68
6	Digital Twin-Aided Intelligent Offloading With Edge Selection in Mobile Edge Computing. IEEE Wireless Communications Letters, 2022, 11, 806-810.	5.0	56
7	Traffic-Aware QoS Provisioning and Admission Control in OFDMA Hybrid Small Cells. IEEE Transactions on Vehicular Technology, 2014, 63, 802-810.	6.3	41
8	Software Defined Architecture for VANET: A Testbed Implementation with Wireless Access Management. , 2017, 55, 135-141.		39
9	Secure full-duplex small-cell networks in a spectrum sharing environment. IEEE Access, 2016, 4, 3087-3099.	4.2	36
10	Self-Organized Things (SoT): An energy efficient next generation network management. Computer Communications, 2016, 74, 52-62.	5.1	31
11	Road to 5G Reduced-Latency: A Software Defined Handover Model for eMBB Services. IEEE Transactions on Vehicular Technology, 2019, 68, 8133-8144.	6.3	26
12	End to end delay modeling of heterogeneous traffic flows in software defined 5G networks. Ad Hoc Networks, 2017, 60, 26-39.	5.5	24
13	A QoS-aware framework for available spectrum characterization and decision in Cognitive Radio networks. , 2010, , .		23
14	Scalability analysis and flow admission control in mininet-based SDN environment. , 2015, , .		22
15	QoE-Based Flow Management in Software Defined Vehicular Networks. , 2015, , .		19
16	BCDN: A proof of concept model for blockchain-aided CDN orchestration and routing. Computer Networks, 2019, 161, 162-171.	5.1	17
17	Aeronautical Networks for In-Flight Connectivity: A Tutorial of the State-of-the-Art and Survey of Research Challenges. IEEE Access, 2022, 10, 20053-20079.	4.2	13
18	Spatio-temporal estimation for interference management in femtocell networks. , 2012, , .		12

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19	Predictive spectrum decision mechanisms in Cognitive Radio Networks. , 2012, , .		12
20	Three-phased clustered topology formation for Aeronautical Ad-Hoc Networks. Pervasive and Mobile Computing, 2022, 79, 101513.	3.3	12
21	SDoff: A software-defined offloading controller for heterogeneous networks. , 2014, , .		11
22	Adaptive and cognitive communication architecture for next-generation PPDR systems. , 2016, 54, 92-100.		11
23	Resilient end-to-end connectivity for software defined unmanned aerial vehicular networks. , 2017, , .		11
24	AirNet: Energy-Aware Deployment and Scheduling of Aerial Networks. IEEE Transactions on Vehicular Technology, 2020, 69, 12252-12263.	6.3	11
25	OFaaS: OpenFlow Switch as a Service for Multi Tenant Slicing in SD-CDN. IEEE Transactions on Network and Service Management, 2021, 18, 362-373.	4.9	11
26	FSC: Two-Scale AI-Driven Fair Sensitivity Control for 802.11ax Networks. , 2020, , .		11
27	Software defined wireless network testbed using Raspberry Pi of switches with routing add-on. , 2015, , .		10
28	Optimal eNodeB Estimation for 5G Intra-Macrocell Handover Management. , 2016, , .		10
29	Forecasting Quality of Service for Next-Generation Data-Driven WiFi6 Campus Networks. IEEE Transactions on Network and Service Management, 2021, 18, 4744-4755.	4.9	10
30	Customized K-Means Based Topology Clustering for Aeronautical Ad-hoc Networks. , 2021, , .		10
31	A dynamic and weighted spectrum decision mechanism based on SNR Tracking in CRAHNs. Ad Hoc Networks, 2012, 10, 752-759.	5.5	9
32	An interference-free and simultaneous molecular transmission model for multi-user nanonetworks. Nano Communication Networks, 2014, 5, 83-96.	2.9	9
33	Green two‐tiered wireless multimedia sensor systems: an energy, bandwidth, and quality optimisation framework. IET Communications, 2016, 10, 2543-2550.	2.2	9
34	SDN-enabled deployment and path planning of aerial base stations. Computer Networks, 2020, 171, 107125.	5.1	9
35	Handover-Aware Content Replication for Mobile-CDN. IEEE Networking Letters, 2019, 1, 10-13.	1.9	8
36	Overcoming 5G ultra-density with game theory: Alpha-beta pruning aided conflict detection. Pervasive and Mobile Computing, 2020, 63, 101133.	3.3	8

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37	Self Similarity Analysis and Modeling of VoIP Traffic under Wireless Heterogeneous Network Environment. , 2009, , .		7
38	Enhancing the performance of multiple IEEE 802.11 network environment by employing a cognitive dynamic fair channel assignment. , 2010, , .		7
39	Grade of Service (GoS) based adaptive flow management for Software Defined Heterogeneous Networks (SDHetN). Computer Networks, 2015, 76, 317-330.	5.1	7
40	WiFED Mobile: WiFi Friendly Energy Delivery With Mobile Distributed Beamforming. IEEE/ACM Transactions on Networking, 2021, 29, 1362-1375.	3.8	7
41	Learning-Vector-Quantization-Based Topology Sustainability for Clustered-AANETs. IEEE Network, 2021, 35, 120-128.	6.9	7
42	AI-Driven Aeronautical Ad Hoc Networks for 6G Wireless: Challenges, Opportunities, and the Road Ahead. Sensors, 2022, 22, 3731.	3.8	7
43	A traffic-aware controller design for next generation software defined networks. , 2013, , .		6
44	Robust and continuous connectivity maintenance for vehicular dynamic spectrum access networks. Ad Hoc Networks, 2015, 25, 72-83.	5.5	6
45	WiFED: WiFi Friendly Energy Delivery with Distributed Beamforming. , 2018, , .		6
46	QoS-based distributed flow management in software defined ultra-dense networks. Ad Hoc Networks, 2018, 78, 24-31.	5.5	6
47	Deliver the content over multiple surrogates: A request routing model for high bandwidth requests. Computer Communications, 2019, 146, 39-47.	5.1	6
48	Traffic-aware utility based QoS provisioning in OFDMA hybrid smallcells. , 2013, , .		5
49	Network-Aware AutoML Framework for Software-Defined Sensor Networks. , 2021, , .		4
50	Xpec: A cross-layer spectrum assignment in Cognitive Radio networks. , 2010, , .		3
51	QoS-aware user Cohabitation Coordinator in Cognitive Radio Networks. , 2012, , .		3
52	A channel availability classification for Cognitive Radio Networks using a monitoring network. , 2012, , .		3
53	A spatial estimation-based handover management for challenging femtocell deployments. , 2014, , .		3
54	SINR and Reliability based Hidden Terminal Estimation for Next Generation Vehicular Networks. , 2016, , .		3

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55	BS-on-air: Optimum UAV localization for resilient ultra dense networks. , 2018, , .		3
56	Flow-Based Network Tomography Agent for Software Defined Data Center. , 2019, , .		3
57	Energy aware endurance framework for mission critical aerial networks. Ad Hoc Networks, 2020, 96, 101992.	5.5	3
58	Energyâ€aware mobility for aerial networks: A reinforcement learning approach. International Journal of Network Management, 0, , e2185.	2.2	3
59	AI-Driven Partial Topology Discovery Algorithm for Broadband Networks. , 2021, , .		3
60	Connectivity Provisioning Using Cognitive Channel Selection in Vehicular Networks. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2014, , 169-179.	0.3	3
61	DTWN: Q-learning-based Transmit Power Control for Digital Twin WiFi Networks. EAI Endorsed Transactions on Industrial Networks and Intelligent Systems, 2022, 9, e5.	1.9	3
62	An adaptive and QoS-based spectrum awareness framework for CR networks. Computer Networks, 2013, 57, 364-373.	5.1	2
63	A relay-based coverage area model for optimal connectivity in vehicular networks. , 2014, , .		2
64	Binary Context Tree Based Middleware for Next Generation Context Aware Networks. , 2015, , .		2
65	XCon: Cross layer topology controller for energy efficient LTE networks. , 2015, , .		2
66	QoS-Aware Power Management in LTE-A Networks Under Heterogeneous Traffics. IEEE Transactions on Vehicular Technology, 2018, 67, 674-688.	6.3	2
67	Graph theoretical approach for automated IP lifecycle management in telco networks. International Journal of Network Management, 2021, 31, e2138.	2.2	2
68	Interval Partitioning for Packet Classification in OpenFlow vSwitch. IEEE Networking Letters, 2020, 2, 128-131.	1.9	2
69	Software-Defined Management Model for Energy-Aware Vehicular Networks. EAI Endorsed Transactions on Wireless Spectrum, 2017, 3, 152099.	0.5	2
70	QoS-Aware Load Balancing Scheme inÂDense Wi-Fi 6 WLANs. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2022, , 33-47.	0.3	2
71	A topology control mechanism for cognitive smallcell networks under heterogeneous traffic. , 2013, , .		1
72	A spatial optimization based adaptive coverage model for green self-organizing networks. , 2014, , .		1

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73	Autonomous anomaly detection and molecular signaling framework for synthetic nanodevices. Nano Communication Networks, 2014, 5, 55-62.	2.9	1
74	Spatio-Temporal Multi-Stage OpenFlow Switch Model for Software Defined Cellular Networks. , 2015, , .		1
75	Dynamic power adjustment and resource allocation framework for LTE networks. , 2016, , .		1
76	The Nearest Origin-Shield (NOS): A Jitter-Free Overlay Routing Framework for Content Delivery Networks. , 2019, , .		1
77	Network Bandwidth Usage Forecast in Content Delivery Networks. , 2020, , .		1
78	An Intelligent 3D Placement Methodology for Drone Networks. , 2021, , .		1
79	A Simultaneous Molecular Communication Model for Synthetic Nanodevices. , 2014, , .		1
80	Intelligent Channel Utilization Discovery in Drone to Drone Networks for Smart Cities. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2020, , 3-18.	0.3	1
81	Spectrum utility optimization by Priced Timed Automata model under heterogeneous Primary User traffics in CR networks. , 2012, , .		0
82	Immune inspired green auto-configuration model for self-organizing networks. , 2014, , .		0
83	Software-defined wireless network (SDWN). , 2015, , 751-766.		0
84	NOC based Banyan OpenFlow switch for Software Defined Networks. , 2015, , .		0
85	A Novel Hyper-Heuristic Approach for Channel Assignment in Cognitive Radio Networks. Advances in Intelligent Systems and Computing, 2015, , 27-38.	0.6	0
86	Secure wireless communications with relay selection and wireless powered transfer. , 2016, , .		0
87	Workshop message: CORAL 2016. , 2016, , .		0
88	Weighted Voting Game Based Relay Node Managemnet in VANETs. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2017, , 90-100.	0.3	0
89	Take Your Cell a Walk for Ultra-Low e2eDeiay in Software Defined Vehicular Networks. , 2018, , .		0
90	Flow-Aware QoS Engine for Ultra-Dense SDN Scenarios. , 2020, , .		0

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91	Popularity-Based Hierarchical Caching for Next Generation Content Delivery Networks. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2021, , 73-87.	0.3	0
92	CLAN: A Robust Control Link for Aerial Mesh Networks in Contested Environments. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2021, , 25-36.	0.3	0
93	Connectivity Analysis and Modeling in Cognitive Vehicular Networks. , 2016, , 126-148.		0
94	Crowdsourcing Applications for Vehicular Social Networks. , 2017, , 129-141.		0