

Abhinav Kumar

List of Publications by Year in descending order

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Version: 2024-02-01

75
papers

616
citations

758635

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h-index

713013

21
g-index

75
all docs

75
docs citations

75
times ranked

525
citing authors

#	ARTICLE	IF	CITATIONS
1	Adaptive User Pairing for NOMA Systems With Imperfect SIC. IEEE Wireless Communications Letters, 2021, 10, 1547-1551.	3.2	53
2	Streaming Video QoE Modeling and Prediction: A Long Short-Term Memory Approach. IEEE Transactions on Circuits and Systems for Video Technology, 2020, 30, 661-673.	5.6	51
3	Embedded Sensors, Communication Technologies, Computing Platforms and Machine Learning for UAVs: A Review. IEEE Sensors Journal, 2022, 22, 1807-1826.	2.4	42
4	A Continuous QoE Evaluation Framework for Video Streaming Over HTTP. IEEE Transactions on Circuits and Systems for Video Technology, 2018, 28, 3236-3250.	5.6	40
5	Energy and Throughput Trade-Offs in Cellular Networks Using Base Station Switching. IEEE Transactions on Mobile Computing, 2016, 15, 364-376.	3.9	34
6	Target Classification by mmWave FMCW Radars Using Machine Learning on Range-Angle Images. IEEE Sensors Journal, 2021, 21, 19993-20001.	2.4	30
7	A Probabilistic Approach to Modeling Users' Network Selection in the Presence of Heterogeneous Wireless Networks. IEEE Transactions on Vehicular Technology, 2014, 63, 3331-3341.	3.9	25
8	Performance Evaluation of LAA-LBT Based LTE and WLAN's Co-Existence in Unlicensed Spectrum. , 2015, , .		23
9	Key exchange protocols for secure Device-to-Device (D2D) communication in 5G. , 2016, , .		21
10	Power allocation for uniform illumination with stochastic LED arrays. Optics Express, 2017, 25, 8659.	1.7	20
11	Performance Analysis of Energy Harvesting-Assisted Overlay Cognitive NOMA Systems With Incremental Relaying. IEEE Open Journal of the Communications Society, 2021, 2, 1558-1576.	4.4	17
12	Blockchain and Deep Learning Empowered Secure Data Sharing Framework for Softwarized UAVs. , 2022, , .		16
13	Resource Allocation for CoMP in Cellular Networks With Base Station Sleeping. IEEE Access, 2018, 6, 12620-12633.	2.6	15
14	Classification of Targets Using Statistical Features from Range FFT of mmWave FMCW Radars. Electronics (Switzerland), 2021, 10, 1965.	1.8	13
15	Optimisation of indoor hybrid PLC/VLC/RF communication systems. IET Communications, 2020, 14, 117-126.	1.5	12
16	LIDOR: A Lightweight DoS-Resilient Communication Protocol for Safety-Critical IoT Systems. IEEE Internet of Things Journal, 2020, 7, 6802-6816.	5.5	11
17	A Novel Detection Technique for a Chipless RFID System Using Quantile Regression. Electronics (Switzerland), 2018, 7, 409.	1.8	10
18	Dynamic Time Division Duplexing for Downlink/Uplink Decoupled Millimeter Wave-Based Cellular Networks. IEEE Communications Letters, 2019, 23, 1441-1445.	2.5	10

#	ARTICLE	IF	CITATIONS
19	Perceptual QoE-Optimal Resource Allocation for Adaptive Video Streaming. IEEE Transactions on Broadcasting, 2020, 66, 346-358.	2.5	9
20	Performance comparison of dual connectivity with CoMP in heterogeneous cellular networks. , 2017, , .		7
21	Improved run length limited codes for VLC using dimming control compensation symbols. , 2018, , .		7
22	Modeling Continuous Video QoE Evolution: A State Space Approach. , 2018, , .		7
23	MIMO Codes for Uniform Illumination Across Space and Time in VLC With Dimming Control. IEEE Photonics Journal, 2019, 11, 1-21.	1.0	7
24	NOMA for Multiple Access Channel and Broadcast Channel in Indoor VLC. IEEE Wireless Communications Letters, 2021, 10, 609-613.	3.2	7
25	A novel RACH mechanism for machine type communications in cellular networks. , 2017, , .		6
26	Downlink Control Channel Scheduling for 3GPP Narrowband-IoT. , 2018, , .		6
27	Scheduling and Decoding of Downlink Control Channel in 3GPP Narrowband-IoT. IEEE Access, 2020, 8, 175612-175624.	2.6	6
28	Duopoly price competition of WLAN service providers in presence of heterogeneous user demand. , 2012, , .		5
29	Security Analysis of LTE/SAE Networks Under De-synchronization Attack for Hyper-Erlang Distributed Residence Time. IEEE Communications Letters, 2017, 21, 1055-1058.	2.5	5
30	A Tunable Energy Signal for Intensity Modulation and Direct Detection Systems: Theory, Simulations, and Experiments. IEEE Photonics Journal, 2020, 12, 1-12.	1.0	5
31	Deep Learning-Based Smart Parking Solution using Channel State Information in LTE-Based Cellular Networks. , 2020, , .		5
32	Performance Analysis Under Double Sided Clipping and Real Time Implementation of DCO-GFDM in VLC Systems. Journal of Lightwave Technology, 2021, 39, 33-41.	2.7	5
33	A Successive Interference Cancellation Based Random Access Channel Mechanism for Machine-to-Machine Communications in Cellular Internet-of-Things. IEEE Access, 2021, 9, 8367-8380.	2.6	5
34	Rate-Splitting Random Access Mechanism for Massive Machine Type Communications in 5G Cellular Internet-of-Things. , 2021, , .		5
35	Impact of NOMA and CoMP Implementation Order on the Performance of Ultra-Dense Networks. , 2022, , .		5
36	Blockchain and Deep Learning for Cyber Threat-Hunting in Software-Defined Industrial IoT. , 2022, , .		5

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37	A linear regression framework for assessing time-varying subjective quality in HTTP streaming. , 2017, , .		4
38	Novel rate matching scheme for downlink control channel in 3GPP massive machine type communications. , 2018, , .		4
39	Low PAPR Coding Scheme for Uniform Illumination in MIMO VLC. , 2018, , .		4
40	Methods for Cellular Network's Operation in Unlicensed mmWave Bands. , 2020, , .		4
41	A Probabilistic Approach to Model SIC Based RACH Mechanism for Machine Type Communications in Cellular Networks. IEEE Transactions on Vehicular Technology, 2021, 70, 1878-1893.	3.9	4
42	LTE-based passive radars and applications: a review. International Journal of Remote Sensing, 2021, 42, 7489-7518.	1.3	4
43	Energy efficient rate coverage with base station switching and load sharing in cellular networks. , 2016, , .		3
44	Base station switching with CoMP in cellular networks. , 2016, , .		3
45	Non-Orthogonal Multiple Access for Ultra-Dense Cellular Networks with Base Station Sleeping. , 2020, , .		3
46	Joint Control and Shared Channel Scheduling for Downlink in 3GPP Narrowband-IoT. , 2020, , .		3
47	Joint NOMA for Improved SER of Cell-Edge Users in Multi-Cell Indoor VLC. IEEE Wireless Communications Letters, 2022, 11, 13-17.	3.2	3
48	eTVSQ based video rate adaptation in cellular networks with $\hat{\pm}$ -fair resource allocation. , 2016, , .		2
49	A MAC-PHY cross-layer analysis of NB-PLC system in presence of impulsive noise. , 2018, , .		2
50	Generation of Perfectly DC Balanced Codes for Visible Light Communications. , 2018, , .		2
51	Closed-form Approximations for Coverage and Rate in a Multi-tier Heterogeneous Network in Nakagami-m Fading. , 2018, , .		2
52	Privacy Preserving Scheme for Operating Frequency of Incumbents in Citizens Broadband Radio Service. , 2019, , .		2
53	A Survey of Resource Allocation Techniques for Cellular Network's Operation in the Unlicensed Band. Electronics (Switzerland), 2020, 9, 1464.	1.8	2
54	Energy Efficiency in Millimeter Wave based Cellular Networks with DUDe and Dynamic TDD. , 2020, , .		2

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55	Design and performance analysis of joint control and shared channel scheduler for downlink in 3GPP narrowband-IoT. Ad Hoc Networks, 2021, 114, 102440.	3.4	2
56	Improved Physical Downlink Control Channel for 3GPP Massive Machine Type Communications. Lecture Notes in Computer Science, 2019, , 1-25.	1.0	2
57	Preserving Operation Frequency Privacy of Incumbents in CBRS. IEEE Access, 2022, 10, 111022-111041.	2.6	2
58	WLAN Service Providers' Price Competition with Uncertainty in User Demand. IEEE Communications Letters, 2013, 17, 517-520.	2.5	1
59	Optimal WiFi sensing via dynamic programming. , 2015, , .		1
60	Resource allocation for energy efficient next generation cellular networks. CSI Transactions on ICT, 2017, 5, 179-187.	0.7	1
61	Flicker Mitigating High Rate RLL Codes for VLC with Low Complexity Encoding and Decoding. , 2018, , .		1
62	Preserving Users' Privacy for Location-Based Services. , 2019, , .		1
63	Memory-Based Codes for Uniform Illumination in MIMO VLC. IEEE Photonics Journal, 2020, 12, 1-15.	1.0	1
64	Fingerprint Image-Based Multi-Building 3D Indoor Wi-Fi Localization Using Convolutional Neural Networks. , 2022, , .		1
65	Wireless local area network service providersâ€™ price competition in presence of heterogeneous user demand. IET Communications, 2013, 7, 2113-2121.	1.5	0
66	Design of fifth-order boost converter - ANT colony approach. , 2016, , .		0
67	Fuzzy logic based cell selection framework for downlink uplink decoupled cellular networks. , 2016, , .		0
68	Modeling spatial distribution of base stations in the Indian scenario. , 2017, , .		0
69	Modeling MME Residence Time in LTE based Cellular Networks. , 2018, , .		0
70	Resource Allocation for Visible Light Communication using Stochastic Geometry. , 2018, , .		0
71	Resource Allocation for Dual Connectivity with Millimeter Wave based Fronthaul in Cloud RAN. , 2019, , .		0
72	Feasibility of Desynchronization Attack in LTE/SAE Networks. , 2018, , .		0

#	ARTICLE	IF	CITATIONS
73	Uplink and Downlink Resource Allocation for Energy Efficient Cellular Networks with Dual Connectivity. , 2018, , .		0
74	Joint Link Adaptation and Resource Allocation for Uplink in 3GPP Machine-Type Communications. , 2022, , .		0
75	SIC-RSRA for Massive Machine-to-Machine Communications in 5G Cellular IoT. , 2022, , .		0