

Kumudu S Munasinghe

List of Publications by Year in descending order

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Version: 2024-02-01

93
papers

790
citations

759055

12
h-index

752573

20
g-index

93
all docs

93
docs citations

93
times ranked

763
citing authors

#	ARTICLE	IF	CITATIONS
1	Intrusion detection in smart cities using Restricted Boltzmann Machines. Journal of Network and Computer Applications, 2019, 135, 76-83.	5.8	59
2	Body Node Coordinator Placement Algorithms for Wireless Body Area Networks. IEEE Internet of Things Journal, 2015, 2, 94-102.	5.5	52
3	Distributed Inter-BS Cooperation Aided Energy Efficient Load Balancing for Cellular Networks. IEEE Transactions on Wireless Communications, 2013, 12, 5929-5939.	6.1	40
4	Replay Attack Detection in Smart Cities Using Deep Learning. IEEE Access, 2020, 8, 137825-137837.	2.6	40
5	An eco-inspired energy efficient access network architecture for next generation cellular systems. , 2011, , .		27
6	Designing VoIP session management over interworked WLAN-3G networks. IEEE Wireless Communications, 2008, 15, 86-94.	6.6	24
7	Blockchain in IoT Security: A Survey. , 2018, , .		24
8	A Unified Mobility and Session Management Platform for Next Generation Mobile Networks. , 2007, , .		23
9	A Hybrid Deep Learning Approach for Replay and DDoS Attack Detection in a Smart City. IEEE Access, 2021, 9, 154864-154875.	2.6	20
10	An analytical evaluation of mobility management in integrated WLAN-UMTS networks. Computers and Electrical Engineering, 2010, 36, 735-751.	3.0	19
11	Biologically Inspired Anomaly Detection and Security Control Frameworks for Complex Heterogeneous Networks. IEEE Transactions on Network and Service Management, 2010, 7, 268-281.	3.2	18
12	A protocoperation-based sleep-wake architecture for next generation green cellular access networks. , 2010, , .		18
13	Accuracy, latency, and energy cross-optimization in wireless sensor networks through infection spreading. International Journal of Communication Systems, 2011, 24, 628-646.	1.6	17
14	A smart city cyber security platform for narrowband networks. , 2017, , .		15
15	A Novel Information Acquisition Technique for Mobile-Assisted Wireless Sensor Networks. IEEE Transactions on Vehicular Technology, 2012, 61, 1752-1761.	3.9	14
16	Random access issues for smart grid communication in LTE networks. , 2014, , .		14
17	EM-Based High Speed Wireless Sensor Networks for Underwater Surveillance and Target Tracking. Journal of Sensors, 2017, 2017, 1-14.	0.6	14
18	A three-tier SDN architecture for DenseNets. , 2015, , .		13

#	ARTICLE	IF	CITATIONS
19	Improved Binary Adaptive Wind Driven Optimization Algorithm-Based Dimensionality Reduction for Supervised Classification. Computers and Industrial Engineering, 2022, 167, 107904.	3.4	13
20	Toward self-organizing sectorization of LTE eNBs for energy efficient network operation under QoS constraints. , 2013, , .		12
21	SEA-BAN: Semi-autonomous adaptive routing in wireless body area networks. , 2013, , .		12
22	An Improved Binary Grey-Wolf Optimizer With Simulated Annealing for Feature Selection. IEEE Access, 2021, 9, 139792-139822.	2.6	12
23	EAR-BAN: Energy efficient adaptive routing in Wireless Body Area Networks. , 2013, , .		11
24	Protecting Cyber Physical Systems Using a Learned MAPE-K Model. IEEE Access, 2019, 7, 90954-90963.	2.6	11
25	A Three-Tier SDN based distributed mobility management architecture for DenseNets. , 2016, , .		10
26	Energy-Aware Dynamic Sectorization of Base Stations in Multi-Cell OFDMA Networks. IEEE Wireless Communications Letters, 2013, 2, 587-590.	3.2	9
27	Three dimensional (3D) underwater sensor network architectures for intruder localization using EM wave. , 2016, , .		9
28	Mobility management in three-tier SDN architecture for DenseNets. , 2016, , .		9
29	Traffic Offloading 3-Tiered SDN Architecture for DenseNets. IEEE Network, 2017, 31, 56-62.	4.9	9
30	Millimeter Wave Based Real-Time Sag Measurement and Monitoring System of Overhead Transmission Lines in a Smart Grid. IEEE Access, 2020, 8, 100754-100767.	2.6	9
31	Blockchain and SDN Architecture for Spectrum Management in Cellular Networks. IEEE Access, 2020, 8, 94415-94428.	2.6	9
32	A Self-Adaptive Deep Learning-Based Algorithm for Predictive Analysis of Bitcoin Price. IEEE Access, 2021, 9, 34054-34066.	2.6	9
33	A heterogeneous software defined networking architecture for the tactical edge. , 2016, , .		8
34	Murmuration Inspired Clustering Protocol for Underwater Wireless Sensor Networks. , 2018, , .		8
35	Multi-Operator Cooperation for Green Cellular Networks With Spatially Separated Base Stations Under Dynamic User Associations. IEEE Transactions on Green Communications and Networking, 2019, 3, 93-107.	3.5	8
36	An On-Chain Analysis-Based Approach to Predict Ethereum Prices. IEEE Access, 2021, 9, 167972-167989.	2.6	8

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37	Deep fake news detection system based on concatenated and recurrent modalities. Expert Systems With Applications, 2022, 208, 117953.	4.4	8
38	An architecture for mobility management in interworked 3G cellular and WiMAX Networks. Wireless Telecommunications Symposium, 2009 WTS 2009, 2008, , .	0.0	7
39	Two level cooperation for energy efficiency in multi-RAN cellular network environment. , 2012, , .		7
40	Optimized resource allocation in LTE networks incorporating delay-sensitive smart grid traffic. , 2016, , .		7
41	Energy efficiency of combined DPS and JT CoMP technique in downlink LTE-A cellular networks. , 2016, , .		7
42	A Novel Random Access Mechanism for Timely Reliable Communications for Smart Meters. IEEE Transactions on Industrial Informatics, 2017, 13, 3256-3264.	7.2	7
43	Traffic offloading for 5G: L-LTE or Wi-Fi. , 2017, , .		7
44	A Machine Learning Approach for Intrusion Detection in Smart Cities. , 2019, , .		6
45	Resource competition in a converged heterogeneous networking ecosystem. Computer Networks, 2011, 55, 1549-1559.	3.2	5
46	Ecological competition based resource control for sustainable heterogeneous wireless networks. , 2011, , .		5
47	On the energy efficiency of self-organizing LTE cellular access networks. , 2012, , .		5
48	Optimal resource allocation for Smart Grid applications in high traffic wireless networks. , 2014, , .		5
49	Smart meter packet transmission via the control signal of LTE networks. , 2015, , .		5
50	On the eNB-based energy-saving cooperation techniques for LTE access networks. Wireless Communications and Mobile Computing, 2015, 15, 401-420.	0.8	5
51	MAC Protocol for Underwater Sensor Networks Using EM Wave With TDMA Based Control Channel. IEEE Access, 2020, 8, 168439-168455.	2.6	5
52	Resource competition at the NGN core network: An ecologically inspired analysis. , 2011, , .		4
53	Ecologically inspired equitable resource distribution between heterogeneous service classes in the NGN. , 2012, , .		4
54	A novel communication mechanism for Smart Meter packet transmission on LTE networks. , 2016, , .		4

#	ARTICLE	IF	CITATIONS
55	Traffic offloading techniques for 5G cellular: a three-tiered SDN architecture. <i>Annales Des Telecommunications/Annals of Telecommunications</i> , 2016, 71, 583-593.	1.6	4
56	A strategic decision value model for cloud computing in Saudi Arabia's public sector. , 2016, , .		4
57	Gas and radiation sensor array for deployment on UAV, ROV and as a handheld standalone device. , 2017, , .		4
58	Analysis of Signaling Cost for a Roaming User in a Heterogeneous Mobile Data Network. , 2008, , .		3
59	NEtwork MObility (NEMO) Support in Interworking Heterogeneous Mobile Networks. , 2010, , .		3
60	Traffic-aware two-dimensional dynamic network provisioning for energy-efficient cellular systems. <i>Transactions on Emerging Telecommunications Technologies</i> , 2016, 27, 357-372.	2.6	3
61	A survivability framework for the NGMN: Inspirations from the Human Immune System. , 2009, , .		2
62	Evaluation of Session Handoffs in a Heterogeneous Mobile Network for Pareto Based Packet Arrivals. , 2009, , .		2
63	A critical observation collection method for Sensor Networks inspired by behavioral ecology. , 2010, , .		2
64	Group Mobility Management for Vehicular Area Networks Roaming between Heterogeneous Networks. , 2010, , .		2
65	Route optimization for roaming heterogeneous multi-homed mobile networks. , 2010, , .		2
66	A Danger Theory Inspired Survivability Framework for the Next Generation Mobile Network. <i>IEEE Latin America Transactions</i> , 2010, 8, 358-369.	1.2	2
67	A novel scheduling technique for Smart Grid data on LTE networks. , 2013, , .		2
68	RF based underwater wireless sensor network architectures for tracking intruders in 3D space. , 2015, , .		2
69	Smart meter packet transmission via the control signal at dynamic load on eNode-B in LTE networks. , 2015, , .		2
70	Multi-hop relaying in 5G: From research to systems, standards, and applications. <i>China Communications</i> , 2016, 13, iii-iv.	2.0	2
71	A hybrid Random Access method for smart meters on LTE networks. , 2016, , .		2
72	Narrow-beam optical communications in underwater wireless network with passive node mobility. , 2017, , .		2

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73	Three-Tier SDN Architecture for 5G: A Novel OpenFlow Switch or Traditional. , 2017, , .		2
74	Break-Even Point-Based Radio Resource Management for Fair Coexistence between U-LTE and Wi-Fi. , 2018, , .		2
75	A Biologically Inspired Framework for Mitigating Epidemic and Pandemic Attacks in the NGMN. , 2010, , .		1
76	A fast and reliable routing technique for wireless mesh networks. Wireless Communications and Mobile Computing, 2012, 12, 782-796.	0.8	1
77	A scalable distributed Microgrid Control Structure. , 2013, , .		1
78	Ecologically Inspired Load Balancing for LTE SON. , 2013, , .		1
79	A Probabilistic Energy-Aware Routing Protocol for Wireless Body Area Networks. , 2014, , .		1
80	Eco-inspired load optimization for LTE EUTRAN. , 2014, , .		1
81	A population theory inspired solution to the optimal bandwidth allocation for Smart Grid applications. , 2014, , .		1
82	Reliability and delay analysis of AUV navigation system using EM wave based underwater sensor network. , 2015, , .		1
83	Eco-inspired low latency performance for Smart Grid applications in wireless networks. , 2015, , .		1
84	Demand management using utility based real time pricing for smart grid with a new cost function. , 2017, , .		1
85	Coopetition Based Inter-Operator Traffic Sharing for Energy Efficient Cellular Networks. , 2019, , .		1
86	Analysis of vertical session handoff for self-similar traffic in a heterogeneous mobile data network. , 2008, , .		0
87	A self-organizing cooperative heterogeneous cellular access network for energy conservation. , 2012, , .		0
88	SDR based through the rubble communications for collapsed mines: A proof-of-concept. , 2015, , .		0
89	Ecologically Inspired Resource Distribution Techniques for Sustainable Communication Networks. , 2015, , 185-203.		0
90	Energy-aware joint transmission Coordinated MultiPoint utilizing dynamic sectorization. , 2015, , .		0

#	ARTICLE	IF	CITATIONS
91	Special issue on "cloud optical network", Photonic Network Communications, 2016, 31, 514-515.	1.4	0
92	BS Switching for Green Cellular Networks Using Energy-Aware Dynamic Traffic Offloading Schemes. , 2017, , .		0
93	Energy-efficient inter-RAN cooperation for non-collocated cell sites with base station selection and user association policies. Wireless Networks, 2019, 25, 269-285.	2.0	0