Kien Nguyen

List of Publications by Year
in descending order

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Version: 2024-02-01

		777949	591227
122	1,131	13	27
papers	citations	h-index	g-index

123	123	123	1307
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Generalized Analysis of Load-Independent ZCS Parallel-Resonant Inverter. IEEE Transactions on Industrial Electronics, 2022, 69, 347-356.	5.2	13
2	Joint Optimization of Charging Location and Time for Network Lifetime Extension in WRSNs. IEEE Transactions on Green Communications and Networking, 2022, 6, 1186-1197.	3.5	6
3	Analysis and Design of 6.78MHz Wireless Power Transfer System for Robot Arm. IEICE Transactions on Communications, 2022, E105.B, 494-503.	0.4	4
4	Constant approximation for opportunistic sensing in mobile air quality monitoring system. Computer Networks, 2022, 202, 108646.	3.2	2
5	A Host-based Investigation of IPv6 in Academia: The Cases of Japan and Vietnam. , 2022, , .		1
6	On the Latency Performance in Private Blockchain Networks. IEEE Internet of Things Journal, 2022, 9, 19246-19259.	5.5	4
7	Wireless power transfer system with load-independent inverse class-E oscillator. Nonlinear Theory and Its Applications IEICE, 2022, 13, 465-470.	0.4	1
8	On the Global Maximization of Network Lifetime in Wireless Rechargeable Sensor Networks. ACM Transactions on Sensor Networks, 2022, 18, 1-29.	2.3	2
9	Loadâ€independent inverse classâ€E ZVS inverter and its application to wireless power transfer systems. IET Power Electronics, 2022, 15, 644-658.	1.5	6
10	AR-CNN: an attention ranking network for learning urban perception. Science China Information Sciences, 2022, 65, 1.	2.7	1
11	Recovery Time Evaluation of Ad-hoc Routing Protocols in IoT-Blockchain. , 2022, , .		4
12	PM2.5 Prediction Using Genetic Algorithm-Based Feature Selection and Encoder-Decoder Model. IEEE Access, 2021, 9, 57338-57350.	2.6	23
13	QIH: An Efficient Q-Learning Inspired Hole-Bypassing Routing Protocol for WSNs. IEEE Access, 2021, 9, 123414-123429.	2.6	3
14	An experimental study on performance of private blockchain in IoT applications. Peer-to-Peer Networking and Applications, 2021, 14, 3075-3091.	2.6	18
15	Optimal Design of 6.78 MHz Wireless Power Transfer System for Robot Arm. , 2021, , .		1
16	Decentralizing Private Blockchain-IoT Network with OLSR. Future Internet, 2021, 13, 168.	2.4	15
17	Implementation of Micropayment System Using IoT Devices. Journal of Signal Processing, 2021, 25, 137-140.	0.2	2
18	An On-Demand Charging for Connected Target Coverage in WRSNs Using Fuzzy Logic and Q-Learning. Sensors, 2021, 21, 5520.	2.1	9

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19	Empowering 5G Mobile Devices With Network Softwarization. IEEE Transactions on Network and Service Management, 2021, 18, 2492-2501.	3.2	8
20	Comprehensive and Simplified Numerical Design Procedure for Class-E Switching Circuits. IEEE Access, 2021, 9, 149971-149981.	2.6	5
21	Frequency-Modulation Controlled Load-Independent Class-E Inverter. IEEE Access, 2021, 9, 144600-144613.	2.6	7
22	Load Independent Class- E^{â^'1}Inverter with Shunt Capacitance. , 2021, , .		3
23	Class-E Inverter with Frequency Modulation Control. , 2021, , .		1
24	Realizing Mobile Air Quality Monitoring System: Architectural Concept and Device Prototype. , 2021, , .		5
25	Load-Independent Inverse Class-E Oscillator with Armstrong-Oscillator Based Topology. , 2021, , .		2
26	A QoS-guaranteed System with Software Defined Networking and Micropayment. , 2021, , .		2
27	Heuristic Algorithm-Based Design Method for Class-E Switching Circuits. , 2021, , .		2
28	A Comparison of Distributed Ledger Technologies in IoT: IOTA versus Ethereum. , 2021, , .		1
29	An IOTA-Based Micropayment System for Air Quality Monitoring Application. , 2021, , .		2
30	Multi-Agent Multi-Armed Bandit Learning for Offloading Delay Minimization in V2X Networks. , 2021, , .		2
31	Joint User Association and Power Allocation for Millimeter-Wave Ultra-Dense Networks. Mobile Networks and Applications, 2020, 25, 274-284.	2.2	15
32	Poster Abstract: Relaxing Network Selection for TCP Short Flows Using SYN Duplication. , 2020, , .		0
33	Throughput and delay analysis for IEEE 802.11 multi-hop networks considering data rate. International Journal of Distributed Sensor Networks, 2020, 16, 155014772095926.	1.3	1
34	A Review on Blockchain for Medical Delivery Drones in 5G-IoT Era: Progress and Challenges. , 2020, , .		12
35	Generalized Analysis and Performance Investigation of the Class-E/F_n Rectifiers. IEEE Access, 2020, 8, 124145-124157.	2.6	4
36	Throughput and Delay Analysis of IEEE 802.11-Based Tree-Topology Networks. IEEE Open Journal of the Communications Society, 2020, 1, 1295-1305.	4.4	0

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37	Load-Independent Self-Tuned Parallel Resonant Power Oscillator. , 2020, , .		5
38	Steady-state analysis and design of phase-controlled class-D ZVS inverter. Nonlinear Theory and Its Applications IEICE, 2020, 11, 189-205.	0.4	1
39	Adaptive Caching for Beneficial Content Distribution in Information-Centric Networking. , 2020, , .		7
40	A Path-Length Efficient, Low-Overhead, Load-Balanced Routing Protocol for Maximum Network Lifetime in Wireless Sensor Networks with Holes. Sensors, 2020, 20, 2506.	2.1	7
41	Throughput Analysis of IEEE 802.11 WLANs with Inter-Network Interference. Applied Sciences (Switzerland), 2020, 10, 2192.	1.3	8
42	Novel Design Approach of Soft-Switching Resonant Converter With Performance Visualization Algorithm. IEEE Access, 2020, 8, 59922-59933.	2.6	12
43	Analysis and Design of Generalized Class-E/F₂ and Class-E/F₃ Inverters. IEEE Access, 2020, 8, 61277-61288.	2.6	12
44	TCP Behavior on Multi-Gigabit IEEE 802.11ad Link. , 2020, , .		5
45	Characterizing Latency Performance inÂPrivate Blockchain Network. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2020, , 238-255.	0.2	3
46	Analytical Evaluation of a WLAN with Dense Network Nodes Considering Capture Effect. IEICE Transactions on Communications, 2020, E103.B, 815-825.	0.4	3
47	Analysis and design of generalized class-E rectifier. Nonlinear Theory and Its Applications IEICE, 2020, 11, 206-223.	0.4	2
48	Enabling P4-based Multipath Communication in Wireless Networks. , 2020, , .		0
49	Modeling and Minimizing Latency in Three-tier V2X Networks. , 2020, , .		11
50	A Comparison of Congestion Control Algorithms in Emulated Wi-Fi Networks. , 2020, , .		2
51	Design of Class-Î¦₃ Inverter. , 2020, , .		0
52	Q-learning-based, Optimized On-demand Charging Algorithm in WRSN. , 2020, , .		6
53	An Investigation of Delay-guaranteed Mechanism in Wi-Fi Networks with Multiple Traffic Flows. , 2020, , .		0
54	An $\frac{e-1}{2e-1}$-Approximation Algorithm for Maximizing Coverage Capability in Mobile Air Quality Monitoring Systems. , 2020, , .		3

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55	Throughput Analysis for IEEE 802.11 Multi-Hop Networks Considering Transmission Rate. , 2019, , .		1
56	Virtualization for Flexibility and Network-Aware on 5G Mobile Devices. , 2019, , .		3
57	An Evaluation of Multipath TCP in Lossy Environment. , 2019, , .		4
58	TELPAC: A time and energy efficient protocol for locating and patching coverage holes in WSNs. Journal of Network and Computer Applications, 2019, 147, 102439.	5.8	18
59	Performance Evaluation of IEEE 802.11ad in Evolving Wi-Fi Networks. Wireless Communications and Mobile Computing, 2019, 2019, 1-11.	0.8	11
60	Hybrid Precoding for Massive mmWave MIMO Systems. IEEE Access, 2019, 7, 33577-33586.	2.6	42
61	Enhancing Multipath TCP Initialization with SYN Duplication. IEICE Transactions on Communications, 2019, E102.B, 1904-1913.	0.4	5
62	An Approach to Reinforce Multipath TCP with Path-Aware Information. Sensors, 2019, 19, 476.	2.1	17
63	A Software Defined Networking Approach for Guaranteeing Delay in Wi-Fi Networks. , 2019, , .		5
64	A Dynamic Routing Protocol for Maximizing Network Lifetime in WSNs with Holes. , 2019, , .		0
65	Targeting Bufferbloat in Wi-Fi Networks: An Emulator-based Approach. , 2019, , .		4
66	Exploiting Q-Learning in Extending the Network Lifetime of Wireless Sensor Networks with Holes. , 2019, , .		5
67	An Effective Metaheuristic for Multiple Traveling Repairman Problem with Distance Constraints. Computing and Informatics, 2019, 38, 883-916.	0.4	0
68	Implementation of Spiking Neural Network with Wireless Communications. Communications in Computer and Information Science, 2019, , 619-626.	0.4	3
69	Energy Efficiency in QoS Constrained 60 GHz Millimeter-Wave Ultra-Dense Networks. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2019, , 87-101.	0.2	0
70	Big Data Analytics, Machine Learning, and Artificial Intelligence in Next-Generation Wireless Networks. IEEE Access, 2018, 6, 32328-32338.	2.6	315
71	Minimum Latency and Optimal Traffic Partition in 5G Small Cell Networks. , 2018, , .		8
72	Next Generation New Radio Small Cell Enhancement: Architectural Options, Functionality and Performance Aspects. IEEE Wireless Communications, 2018, 25, 120-128.	6.6	42

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73	A Stochastic Geometry Analysis of Multiconnectivity in Heterogeneous Wireless Networks. IEEE Transactions on Vehicular Technology, 2018, 67, 9734-9746.	3.9	22
74	Shared resource access high capacity wireless networks: A stochastic geometry framework. , 2018, , .		1
75	Outage Analysis of Offloading in Heterogeneous Networks: Composite Fading Channels. IEEE Transactions on Vehicular Technology, 2017, 66, 8990-9004.	3.9	21
76	Shared Spectrum Access Communications: A Neutral Host Micro Operator Approach. IEEE Journal on Selected Areas in Communications, 2017, 35, 1741-1753.	9.7	36
77	Empirical investigation of IEEE 802.11ad network. , 2017, , .		7
78	An evolvable, scalable, and resilient control channel for software defined wireless access networks. Computers and Electrical Engineering, 2017, 57, 104-117.	3.0	10
79	A Study on Performance Evaluation of Multipath TCP Implementations. , 2017, , .		0
80	Feasibility Study of Providing Backward Compatibility with MPTCP to WiGig/IEEE 802.11ad. , 2017, , .		10
81	An Enhancement of Multipath TCP Performance in Lossy Wireless Networks. , 2016, , .		7
82	Heterogeneous Networks in Shared Spectrum Access Communications. IEEE Journal on Selected Areas in Communications, 2016, , 1-1.	9.7	9
83	Offloading in HetNets over shadowed Nakagami-m fading channel. , 2016, , .		0
84	An experimental feasibility study on applying SDN technology to disaster-resilient wide area networks. Annales Des Telecommunications/Annals of Telecommunications, 2016, 71, 639-647.	1.6	6
85	USD: A User-Centric Software Defined Platform for 5G Mobile Devices. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2016, , 530-538.	0.2	1
86	Using contextual information to classify nuclei in histology images. , 2015, , .		7
87	Adaptive whole slide tissue segmentation to handle inter-slide tissue variability. , 2015, , .		0
88	A Scalable and Robust OpenFlow Channel for Software Defined Wireless Access Networks. , 2015, , .		8
89	Ryuo: Using high level northbound API for control messages in software defined network. , 2015, , .		2
90	Investigating Performance of Concurrent Virtual Wi-Fi Interfaces. , 2015, , .		1

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91	An Investigation of Packet Concatenation in Sensor Networks. , 2014, , .		0
92	On the resilience of software defined routing platform. , 2014, , .		4
93	A Receiver-Initiated MAC Protocol for Energy Harvesting Sensor Networks. Lecture Notes in Electrical Engineering, 2014, , 603-610.	0.3	5
94	Toward commodity wireless multihop access networks. , 2014, , .		3
95	A cross-layer approach for improving WiFi performance. , 2014, , .		11
96	On-the-fly establishment of multihop wireless access networks for disaster recovery. , 2014, 52, 60-66.		49
97	ERI-MAC: An Energy-Harvested Receiver-Initiated MAC Protocol for Wireless Sensor Networks. International Journal of Distributed Sensor Networks, 2014, 10, 514169.	1.3	36
98	Novel fast switchover on OpenFlow switch. , 2014, , .		2
99	Novel fast switchover on openflow switch. , 2014, , .		2
100	Investigating the Performance of Link Aggregation on OpenFlow Switches. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2014, , 194-202.	0.2	3
101	Experimental Study on the Performance of Linux Ethernet Bonding. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2014, , 307-317.	0.2	1
102	Improving WiFi networking with concurrent connections and multipath TCP. , 2013, , .		7
103	Requirements for Resilient Information and Communication Technology. , 2013, , .		4
104	Virtualized multihop access networks for disaster recovery. , 2013, , .		1
105	Tree-based disaster recovery multihop access network. , 2013, , .		3
106	A Software-Defined Networking Approach for Disaster-Resilient WANs. , 2013, , .		22
107	Increasing Resilience of OpenFlow WANs Using Multipath Communication. , 2013, , .		2
108	DRANs: Resilient Disaster Recovery Access Networks. , 2013, , .		4

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109	Re-ranking for person re-identification. , 2013, , .		9
110	Towards Optimal Disaster Recovery in Backbone Networks. , 2013, , .		3
111	Low Overhead MAC Protocol for Low Data Rate Wireless Sensor Networks. International Journal of Distributed Sensor Networks, 2013, 9, 217159.	1.3	12
112	An efficient exact algorithm for the Minimum Latency Problem. Progress in Informatics, 2013, , 167.	0.2	6
113	MAC2: A Multi-Hop Adaptive MAC Protocol with Packet Concatenation for Wireless Sensor Networks. IEICE Transactions on Information and Systems, 2012, E95-D, 480-489.	0.4	8
114	Asynchronous MAC protocol with QoS awareness in wireless sensor networks. , 2012, , .		4
115	Achieving Minimum Latency in Multi-Hop MAC Protocol for Wireless Sensor Networks. , 2011, , .		5
116	Impact of contention on performance of flows in multi-hop MAC protocol for sensor networks. , 2011, , .		0
117	An energy efficient, high throughput MAC protocol using packet aggregation. , 2011, , .		3
118	AM-MAC. , 2010, , .		7
119	Using carrier sensing to improve energy efficiency of MAC protocol in sensor networks. , 2010, , .		2
120	Impact of QoS operations on an experimental testbed network. Simulation Modelling Practice and Theory, 2009, 17, 528-537.	2.2	1
121	LCO-MAC: A Low Latency, Low Control Overhead MAC Protocol for Wireless Sensor Networks. , 2008, , .		5
122	Investigating QoS Performance on a Testbed Network. , 2007, , .		1