

# Peng-Yong Kong

List of Publications by Year  
in descending order

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123  
papers

1,581  
citations

430874

18  
h-index

434195

31  
g-index

125  
all docs

125  
docs citations

125  
times ranked

1340  
citing authors

#	ARTICLE	IF	CITATIONS
1	Charging Schemes for Plug-In Hybrid Electric Vehicles in Smart Grid: A Survey. IEEE Access, 2016, 4, 6846-6875.	4.2	158
2	Wireless Neighborhood Area Networks With QoS Support for Demand Response in Smart Grid. IEEE Transactions on Smart Grid, 2016, 7, 1913-1923.	9.0	98
3	TRITON: high-speed maritime wireless mesh network. IEEE Wireless Communications, 2013, 20, 134-142.	9.0	84
4	Effects of Communication Network Performance on Dynamic Pricing in Smart Power Grid. IEEE Systems Journal, 2014, 8, 533-541.	4.6	70
5	TRITON: High speed maritime mesh networks. , 2008, , .		55
6	High Speed Maritime Ship-to-Ship/Shore Mesh Networks. , 2007, , .		41
7	Optimal Configuration of Interdependence Between Communication Network and Power Grid. IEEE Transactions on Industrial Informatics, 2019, 15, 4054-4065.	11.3	37
8	Joint Consideration of Communication Network and Power Grid Topology for Communications in Community Smart Grid. IEEE Transactions on Industrial Informatics, 2020, 16, 2895-2905.	11.3	36
9	Information Quality Aware Routing in Event-Driven Sensor Networks. , 2010, , .		35
10	Cost Efficient Data Aggregation Point Placement With Interdependent Communication and Power Networks in Smart Grid. IEEE Transactions on Smart Grid, 2019, 10, 74-83.	9.0	33
11	A Novel Framework to Simulate Maritime Wireless Communication Networks. , 2007, , .		31
12	A Performance Comparison of Routing Protocols for Maritime Wireless Mesh Networks. , 2008, , .		31
13	Distributed Reinforcement Learning Frameworks for Cooperative Retransmission in Wireless Networks. IEEE Transactions on Vehicular Technology, 2010, 59, 4157-4162.	6.3	29
14	Cost-Efficient Placement of Communication Connections for Transmission Line Monitoring. IEEE Transactions on Industrial Electronics, 2017, 64, 4058-4067.	7.9	29
15	Power-Optimized Vertical Handover Scheme for Heterogeneous Wireless Networks. IEEE Communications Letters, 2014, 18, 277-280.	4.1	27
16	Autonomous Robot-Like Mobile Chargers for Electric Vehicles at Public Parking Facilities. IEEE Transactions on Smart Grid, 2019, 10, 5952-5963.	9.0	26
17	A Review of Quantum Key Distribution Protocols in the Perspective of Smart Grid Communication Security. IEEE Systems Journal, 2022, 16, 41-54.	4.6	25
18	Performance Study on ZigBee-Based Wireless Personal Area Networks for Real-Time Health Monitoring. ETRI Journal, 2006, 28, 537-540.	2.0	24

#	ARTICLE	IF	CITATIONS
19	Analysis on generalized stochastically bounded bursty traffic for communication networks. , 0, , .		23
20	A Routing Protocol for WiMAX Based Maritime Wireless Mesh Networks. , 2009, , .		23
21	Dynamic and Distributed Load Balancing Scheme in Multi-gateway Based 6LoWPAN. , 2014, , .		23
22	Backhaul-Aware Joint Traffic Offloading and Time Fraction Allocation for 5G HetNets. IEEE Transactions on Vehicular Technology, 2016, 65, 9224-9235.	6.3	22
23	Cellular-Assisted D2D Communications for Advanced Metering Infrastructure in Smart Grid. IEEE Systems Journal, 2019, 13, 1347-1358.	4.6	22
24	A Distributed Management Scheme for Energy Storage in a Smart Grid With Communication Impairments. IEEE Transactions on Industrial Informatics, 2018, 14, 1392-1402.	11.3	21
25	TCP Performance in IEEE 802.11-Based Ad Hoc Networks with Multiple Wireless Lossy Links. IEEE Transactions on Mobile Computing, 2007, 6, 1329-1342.	5.8	19
26	Technologies and networks supporting maritime wireless mesh communications. , 2013, , .		19
27	Radio Resource Allocation Scheme for Reliable Demand Response Management Using D2D Communications in Smart Grid. IEEE Transactions on Smart Grid, 2020, 11, 2417-2426.	9.0	19
28	Cellular-Assisted Device-to-Device Communications for Healthcare Monitoring Wireless Body Area Networks. IEEE Sensors Journal, 2020, 20, 13139-13149.	4.7	19
29	A novel scheduling scheme to share dropping ratio while guaranteeing a delay bound in a multicode-cdma network. IEEE/ACM Transactions on Networking, 2003, 11, 994-1006.	3.8	16
30	Routing in Communication Networks With Interdependent Power Grid. IEEE/ACM Transactions on Networking, 2020, 28, 1899-1911.	3.8	15
31	Performance of Proactive Earliest Due Date Packet Scheduling in Wireless Networks. IEEE Transactions on Vehicular Technology, 2004, 53, 1224-1234.	6.3	14
32	On ordered scheduling for optical burst switching. Computer Networks, 2005, 48, 891-909.	5.1	14
33	Optimal Cooperative Relaying Schemes in IR-UWB Networks. IEEE Transactions on Mobile Computing, 2010, 9, 969-981.	5.8	14
34	Optimizing Design and Performance of Underwater Acoustic Sensor Networks with 3D Topology. IEEE Transactions on Mobile Computing, 2020, 19, 1689-1701.	5.8	14
35	Potential of Network Energy Saving Through Handover in HetNets. IEEE Transactions on Vehicular Technology, 2016, 65, 10198-10204.	6.3	13
36	Computation and Sensor Offloading for Cloud-Based Infrastructure-Assisted Autonomous Vehicles. IEEE Systems Journal, 2020, 14, 3360-3370.	4.6	13

#	ARTICLE	IF	CITATIONS
37	A Survey of Cyberattack Countermeasures for Unmanned Aerial Vehicles. IEEE Access, 2021, 9, 148244-148263.	4.2	13
38	A Cooperative Retransmission Scheme in Wireless Networks with Imperfect Channel State Information. , 2009, , .		12
39	A Cooperative Retransmission Scheme for IR-UWB networks. , 2008, , .		11
40	Power Consumption and Packet Delay Relationship for Heterogeneous Wireless Networks. IEEE Communications Letters, 2013, 17, 1376-1379.	4.1	11
41	Reinforcement learning approach to dynamic activation of base station resources in wireless networks. , 2013, , .		11
42	MDP based dynamic base station management for power conservation in self-organizing networks. , 2014, , .		11
43	Connectivity and route analysis for a maritime communication network. , 2007, , .		10
44	Cooperative wireless transmissions of dynamic power price and supply information for smart grid. , 2013, , .		10
45	Optimal Probabilistic Policy for Dynamic Resource Activation Using Markov Decision Process in Green Wireless Networks. IEEE Transactions on Mobile Computing, 2014, 13, 2357-2368.	5.8	10
46	Multicell D2D Communications for Hierarchical Control of Microgrid System. IEEE Systems Journal, 2021, 15, 1929-1938.	4.6	10
47	Game Theoretic Approach to Demand Side Management in Smart Grid with User-Dependent Acceptance Prices. , 2016, , .		9
48	An adaptive packets hopping mechanism for transmission line monitoring systems with a long chain topology. International Journal of Electrical Power and Energy Systems, 2021, 124, 106394.	5.5	9
49	Performance of Slotted-Aloha over TH-UWB. , 2007, , .		8
50	Distributed Adaptive Time Slot Allocation for WiMAX Based Maritime Wireless Mesh Networks. , 2009, , .		8
51	Prevention of collisions among two Wireless Personal Area Networks. , 2014, , .		8
52	Optimal Backup Power Deployment for Communication Network With Interdependent Power Network. IEEE Access, 2022, 10, 17287-17299.	4.2	8
53	A Medium Access Control Protocol For Ultra-Wideband Wireless Ad Hoc Networks. , 0, , .		7
54	Performance analysis of a cooperative retransmission scheme using Markov models. , 2007, , .		7

#	ARTICLE	IF	CITATIONS
55	Evaluation of the IEEE 802.16 Mesh MAC for Multihop Inter-ship Communications. , 2007, , .		7
56	A Low-Overhead Cooperative Retransmission Scheme for IR-UWB Networks. Research Letters in Communications, 2008, 2008, 1-3.	0.9	7
57	CoRex: A Simple MAC Layer Cooperative Retransmission Scheme for Wireless Networks. , 2010, , .		7
58	An Overview of Maritime Wireless Mesh Communication Technologies and Protocols. International Journal of Business Data Communications and Networking, 2014, 10, 1-29.	0.7	7
59	Minimizing Energy Consumption Through Traffic Offloading in HetNets With Two-Class Traffic. IEEE Communications Letters, 2015, 19, 1394-1397.	4.1	7
60	Average Packet Delay Analysis for a Mobile User in a Two-Tier Heterogeneous Cellular Network. IEEE Systems Journal, 2017, 11, 2726-2736.	4.6	7
61	Robust Online Overhead Transmission Line Monitoring With Cost Efficiency in Smart Power Grid. IEEE Access, 2021, 9, 86449-86459.	4.2	7
62	Artificial-Neural-Network-Assisted Sensor Clustering for Robust Communication Network in IoT-Based Electricity Transmission Line Monitoring. IEEE Internet of Things Journal, 2022, 9, 16701-16713.	8.7	7
63	Multicode-DRR: a packet-scheduling algorithm for delay guarantee in a multicode-CDMA network. IEEE Transactions on Wireless Communications, 2005, 4, 2694-2704.	9.2	6
64	A routing approach for inter-ship communications in wireless multi-hop networks. , 2008, , .		6
65	Markov Decision Process Frameworks for Cooperative Retransmission in Wireless Networks. , 2009, , .		6
66	A method to deliver AODV routing messages using WiMAX mesh MAC control messages in maritime wireless networks. , 2009, , .		6
67	A distributed MAC scheme to avoid collisions among multiple wireless personal area networks. , 2013, , .		6
68	Robust Wireless Sensor Networks for Transmission Line Monitoring in Taiwan. , 2018, , .		6
69	An enhanced QoS routing algorithm for provision of end-to-end delay guarantee in low earth orbit satellite networks. , 0, , .		5
70	A Robust and Energy Efficient Routing Scheme for Wireless Sensor Networks. , 2006, , .		5
71	DTPA: A Reliable Datagram Transport Protocol over Ad Hoc Networks. IEEE Transactions on Mobile Computing, 2008, 7, 1285-1294.	5.8	5
72	Multi-channel transmission with efficient delivery of routing information in maritime WiMAX mesh networks. , 2009, , .		5

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73	Data aggregate point placement for smart grid with joint consideration of communication and power networks. , 2017, , .		5
74	A novel verticle handover scheme for integrated WLAN and cellular wireless networks. , 0, , .		4
75	A routing algorithm to provide end-to-end delay guarantee in low Earth orbit satellite networks. , 0, , .		4
76	Analysis of TCP throughput in IEEE 802.11 based multi-hop ad hoc networks. , 0, , .		4
77	Quantitative Robustness Metric for QOS Performances of Communication Networks. , 2006, , .		4
78	A Resource Allocation Scheme for TH-UWB Networks with Multiple Sinks. , 2008, , .		4
79	A novel routing metric for multi-hop cooperative wireless networks. , 2009, , .		4
80	Dynamic end-to-end capacity in IEEE 802.16 wireless mesh networks. Computer Networks, 2010, 54, 2147-2165.	5.1	4
81	Interference Range Analysis and Scheduling among Three-Hop Neighborhood in Maritime WiMAX Mesh Networks. , 2010, , .		4
82	Minimizing power consumption in HetNets with packet delay constraints. , 2014, , .		4
83	Extending Energy Storage Lifetime of Autonomous Robot-Like Mobile Charger for Electric Vehicles. IEEE Access, 2020, 8, 106811-106821.	4.2	4
84	Performance of queue in impaired wireless channel. Electronics Letters, 2002, 38, 1342.	1.0	3
85	Finding an Optimum Maximum Congestion Window for TCP Reno over 802.11 Based Ad Hoc Networks. , 2007, , .		3
86	A medium access control protocol for UWB sensor networks with QoS support. , 2008, , .		3
87	Capacity Estimation for IEEE 802.16 Wireless Multi-Hop Mesh Networks. , 2008, , .		3
88	Throughput performance of back-pressure scheduling in wireless cooperative networks. , 2009, , .		3
89	<i>SAUCeR</i>; a QoS-aware slottedâ€łloha based UWB MAC with cooperative retransmissions. Wireless Communications and Mobile Computing, 2011, 11, 410-425.	1.2	3
90	Cooperative MAC relaying with multi-rate transmissions and network coding. , 2012, , .		3

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91	An analysis of uncovered area for camera sensor network in maritime environment. , 2013, , .		3
92	Full-view coverage quasi-mobile camera sensor network for maritime surveillance. , 2014, , .		3
93	Effect of realistic sea surface movements in achieving full-view coverage camera sensor network. International Journal of Communication Systems, 2016, 29, 1091-1115.	2.5	3
94	VNF Orchestration and Power-Disjoint Traffic Flow Routing for Optimal Communication Robustness in Smart Grid With Cyber-Physical Interdependence. IEEE Transactions on Network and Service Management, 2022, 19, 4479-4490.	4.9	3
95	Proactive earliest due-date scheduling in wireless packet networks. , 0, , .		2
96	Maximizing End-to-End Reliability of Routing with Redundant Path by Optimal Link Layer Scheduling. , 2007, , .		2
97	Cooperative retransmissions using Markov decision process with reinforcement learning. , 2009, , .		2
98	An efficient cooperative transmission scheme using multiple relays incrementally. , 2010, , .		2
99	Distributed Sensor Clustering Using Artificial Neural Network With Local Information. IEEE Internet of Things Journal, 2022, 9, 21851-21861.	8.7	2
100	Compound QoS commitments for a wireless network with variable capacity. , 2001, , .		1
101	An efficient resource allocation scheme for time-sensitive traffic in wireless networks. , 0, , .		1
102	Design and implementation of a rate-scalable wireless local area network. , 0, , .		1
103	A medium access control protocol for a wireless network with diverse numbers of transceivers. , 0, , .		1
104	The impact of lossy links on tcp performance IEEE 802.11 based ad hoc networks. , 0, , .		1
105	The Study of False Route Breakage in IEEE 802.11 based Ad Hoc Networks. , 2006, , .		1
106	Multi-channel WiMAX Mesh networking and its practice in sea. , 2008, , .		1
107	DTSSMA: Distributed time-spread multiple access for wireless mesh networks with IEEE 802.16d MAC protocol. Computer Networks, 2009, 53, 322-337.	5.1	1
108	High Throughput Interweave Cooperative Wireless MAC Protocol for Congested Environment. , 2010, , .		1

#	ARTICLE	IF	CITATIONS
109	CCRex: A coding-aware cooperative retransmission for wireless networks. , 2010, , .		1
110	The Effect of Impulsiveness in Inter-Cell Interference on Throughput of TH-IR-UWB Networks. , 2010, , .		1
111	A practical incremental relaying scheme with imperfect feedback for wireless networks. , 2012, , .		1
112	Modular IPM strategy for energy conservation in densely deployed networks. , 2015, , .		1
113	Quality of Service in Wireless Multi-Hop Ad Hoc Networks. Wireless Networks and Mobile Communications, 2008, , 179-217.	1.0	1
114	A generalized processor sharing approach to resource allocation for QoS in multicode-CDMA networks. , 0, , .		0
115	Audio-Visual Wireless Streaming Platform for the Residential Environment Employing Mesh and MIMO Extensions. , 2007, , .		0
116	A resource allocation scheme to achieve fairness in TH-UWB sensor networks with near-far effects. , 2008, , .		0
117	A Markov chain model for packet queueing delay analysis of a mobile user in HetNets. , 2015, , .		0
118	Automation of fiber to the home network design with different types of network elements. , 2015, , .		0
119	Special issue on energy-efficient wireless communication networks with QoS. International Journal of Communication Systems, 2017, 30, e3017.	2.5	0
120	B-Coop: A Novel Cooperation Enforcement Scheme for Wireless Networks. , 2019, , .		0
121	An Overview of Maritime Wireless Mesh Communication Technologies and Protocols. , 2016, , 171-199.		0
122	Wireless Mesh Communication Technologies and Protocols for a Full-View Camera Sensor Network Used in Maritime Surveillance. Advances in Human Resources Management and Organizational Development Book Series, 2018, , 125-205.	0.3	0
123	MAC Protocol of WiMAX Mesh Network. Advances in Wireless Technologies and Telecommunication Book Series, 0, , 292-312.	0.4	0