

Chuan Heng Foh

List of Publications by Year in descending order

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127
papers

2,944
citations

279798

23
h-index

197818

49
g-index

127
all docs

127
docs citations

127
times ranked

3178
citing authors

#	ARTICLE	IF	CITATIONS
1	A Survey on Software-Defined Networking. IEEE Communications Surveys and Tutorials, 2015, 17, 27-51.	39.4	751
2	Enabling Massive IoT in 5G and Beyond Systems: PHY Radio Frame Design Considerations. IEEE Access, 2016, 4, 3322-3339.	4.2	182
3	An Energy-Aware Trust Derivation Scheme With Game Theoretic Approach in Wireless Sensor Networks for IoT Applications. IEEE Internet of Things Journal, 2014, 1, 58-69.	8.7	145
4	Connectivity, Coverage and Placement in Wireless Sensor Networks. Sensors, 2009, 9, 7664-7693.	3.8	129
5	Energy-Efficient Random Access for LEO Satellite-Assisted 6G Internet of Remote Things. IEEE Internet of Things Journal, 2021, 8, 5114-5128.	8.7	128
6	Comments on IEEE 802.11 saturation throughput analysis with freezing of backoff counters. IEEE Communications Letters, 2005, 9, 130-132.	4.1	108
7	A practical path loss model for indoor WiFi positioning enhancement. , 2007, , .		88
8	An Efficient Cache Strategy in Information Centric Networking Vehicle-to-Vehicle Scenario. IEEE Access, 2017, 5, 12657-12667.	4.2	64
9	Network connectivity of one-dimensional MANETs with random waypoint movement. IEEE Communications Letters, 2005, 9, 31-33.	4.1	58
10	QoS-Aware Resource Allocation for Video Transcoding in Clouds. IEEE Transactions on Circuits and Systems for Video Technology, 2017, 27, 49-61.	8.3	56
11	Towards Efficient Resource Allocation for Heterogeneous Workloads in IaaS Clouds. IEEE Transactions on Cloud Computing, 2018, 6, 264-275.	4.4	56
12	Defending Against New-Flow Attack in SDN-Based Internet of Things. IEEE Access, 2017, 5, 3431-3443.	4.2	54
13	A Markovian Framework for Performance Evaluation of IEEE 802.11. IEEE Transactions on Wireless Communications, 2007, 6, 1276-1265.	9.2	47
14	TC-BAC: A trust and centrality degree based access control model in wireless sensor networks. Ad Hoc Networks, 2013, 11, 2675-2692.	5.5	43
15	Mitigating the Table-Overflow Attack in Software-Defined Networking. IEEE Transactions on Network and Service Management, 2017, 14, 1086-1097.	4.9	39
16	Optimized Cross-Layer Design for Scalable Video Transmission Over the IEEE 802.11e Networks. IEEE Transactions on Circuits and Systems for Video Technology, 2007, 17, 1665-1678.	8.3	38
17	OPHMR: An Optimized Polymorphic Hybrid Multicast Routing Protocol for MANET. IEEE Transactions on Mobile Computing, 2007, 6, 551-562.	5.8	35
18	On the Selection of Transmission Range in Underwater Acoustic Sensor Networks. Sensors, 2012, 12, 4715-4729.	3.8	33

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19	Caching Strategy Based on Hierarchical Cluster for Named Data Networking. IEEE Access, 2017, 5, 8433-8443.	4.2	33
20	A Loss-Free Multipathing Solution for Data Center Network Using Software-Defined Networking Approach. IEEE Transactions on Magnetics, 2013, 49, 2723-2730.	2.1	32
21	Optimal solution for the index coding problem using network coding over GF(2). , 2012, , .		31
22	Cell Fault Management Using Machine Learning Techniques. IEEE Access, 2019, 7, 124514-124539.	4.2	30
23	Power-Efficient Virtual Machine Placement and Migration in Data Centers. , 2013, , .		28
24	Improving WLAN VoIP Capacity Through Service Differentiation. IEEE Transactions on Vehicular Technology, 2008, 57, 465-474.	6.3	27
25	Wireless Indoor Positioning System with Enhanced Nearest Neighbors in Signal Space Algorithm. , 2006, , .		26
26	A Collision Avoidance Mechanism for Emergency Message Broadcast in Urban VANET. , 2016, , .		26
27	Meeting connectivity requirements in a wireless multihop network. IEEE Communications Letters, 2006, 10, 19-21.	4.1	25
28	FULL-RCMA: A High Utilization EPON. IEEE Journal on Selected Areas in Communications, 2004, 22, 1514-1524.	14.0	24
29	Hybrid RF Mapping and Kalman Filtered Spring Relaxation for Sensor Network Localization. IEEE Sensors Journal, 2012, 12, 1427-1435.	4.7	24
30	Modeling and performance evaluation of GPRS. , 0, , .		22
31	An efficient network coding based retransmission algorithm for wireless multicast. , 2009, , .		22
32	Location Estimation in Wireless Sensor Networks Using Spring-Relaxation Technique. Sensors, 2010, 10, 5171-5192.	3.8	21
33	Analysis of the IEEE 802.11e EDCA Under Statistical Traffic. , 2006, , .		20
34	A survey of green scheduling schemes for homogeneous and heterogeneous cellular networks. , 2015, 53, 175-181.		19
35	Throughput Analysis and User Barring Design for Uplink NOMA-Enabled Random Access. IEEE Transactions on Wireless Communications, 2021, 20, 6298-6314.	9.2	19
36	PMNDN: Proxy Based Mobility Support Approach in Mobile NDN Environment. IEEE Transactions on Network and Service Management, 2017, 14, 191-203.	4.9	18

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37	LT codes decoding: Design and analysis. , 2009, , .		16
38	Impulsive noise reduction of a narrowband power line communication using optimal nonlinearity technique. , 2011, , .		16
39	LT-W: Improving LT Decoding With Wiedemann Solver. IEEE Transactions on Information Theory, 2013, 59, 7887-7897.	2.4	15
40	Online XOR packet coding: Efficient single-hop wireless multicasting with low decoding delay. Computer Communications, 2014, 39, 65-77.	5.1	15
41	A channel model for power line communication in the smart grid. , 2011, , .		14
42	Energy minimization via dynamic voltage scaling for real-time video encoding on mobile devices. , 2012, , .		14
43	Beam-Based Mobility Management in 5G Millimetre Wave V2X Communications: A Survey and Outlook. IEEE Open Journal of Intelligent Transportation Systems, 2021, 2, 347-363.	4.8	14
44	Retry Limit Based ULP for Scalable Video Transmission over IEEE 802.11e WLANs. IEEE Communications Letters, 2007, 11, 498-500.	4.1	13
45	Towards reproducible performance studies of datacenter network architectures using an open-source simulation approach. , 2013, , .		13
46	Hop-distance relationship analysis with quasi-UDG model for node localization in wireless sensor networks. Eurasip Journal on Wireless Communications and Networking, 2011, 2011, .	2.4	12
47	Optimal Disk Storage Allocation for Multitier Storage System. IEEE Transactions on Magnetics, 2013, 49, 2603-2609.	2.1	12
48	Reliable emergency message dissemination protocol for urban internet of vehicles. IET Communications, 2017, 11, 1275-1281.	2.2	12
49	An adaptive approach for elephant flow detection with the rapidly changing traffic in data center network. International Journal of Network Management, 2017, 27, e1987.	2.2	12
50	Hybrid Collision-Free Medium Access (HCFMA) Protocol for Underwater Acoustic Networks: Design and Performance Evaluation. IEEE Journal of Oceanic Engineering, 2015, 40, 292-302.	3.8	11
51	Variable elasticity spring-relaxation: improving the accuracy of localization for WSNs with unknown path loss exponent. Personal and Ubiquitous Computing, 2012, 16, 929-941.	2.8	10
52	A new technique for performance evaluation of random access protocols. , 0, , .		9
53	Collision Codes: Decoding Superimposed BPSK Modulated Wireless Transmissions. , 2010, , .		9
54	Performance Evaluation of IPTV Over Wireless Home Networks. IEEE Transactions on Multimedia, 2011, 13, 1116-1126.	7.2	9

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55	Performance evaluation of IEEE 802.11. , 0, , .		8
56	WLC24-1: Dynamic MAC Parameters Configuration for Performance Optimization in 802.11e Networks. IEEE Global Telecommunications Conference (GLOBECOM), 2006, , .	0.0	8
57	Joint Unequal Loss Protection and LT Coding for Layer-Coded Media Delivery. , 2010, , .		8
58	Primer and Recent Developments on Fountain Codes. Recent Advances in Communications and Networking Technology, 2014, 2, 2-11.	0.1	8
59	Dynamic Load Balancing Multipathing in Data Center Ethernet. , 2010, , .		7
60	DC-MAC: A data-centric multi-hop MAC protocol for underwater acoustic sensor networks. , 2011, , .		7
61	Towards multi-resource physical machine provisioning for IaaS clouds. , 2014, , .		7
62	A Survey of Abnormal Traffic Information Detection and Transmission Mechanisms in VSNs. International Journal of Distributed Sensor Networks, 2014, 10, 582761.	2.2	7
63	An enhancement of TCP veno over light-load wireless networks. IEEE Communications Letters, 2006, 10, 441-443.	4.1	6
64	An Enhancement of TFRC over Wireless Networks. , 2007, , .		6
65	RSS Ranging Based Wi-Fi Localization for Unknown Path Loss Exponent. , 2011, , .		6
66	IEEE Access Special Section Editorial: Advances in Vehicular Clouds. IEEE Access, 2016, 4, 10315-10317.	4.2	6
67	An On-Off Queue Control Mechanism for Scalable Video Streaming over the IEEE 802.11e WLAN. , 2008, , .		5
68	Differentiated Ethernet Congestion Management for Prioritized Traffic. , 2010, , .		5
69	Exploiting wireless broadcast advantage as a network-wide cache. , 2011, , .		5
70	An Efficient Prediction-Based Data Forwarding Strategy in Vehicular Ad Hoc Network. International Journal of Distributed Sensor Networks, 2015, 11, 128725.	2.2	5
71	Low-Complexity Channel Estimation and Multi-User Detection for Uplink Grant-Free NOMA Systems. IEEE Wireless Communications Letters, 2022, 11, 263-267.	5.0	5
72	CSMA with reservations by interruptions (CSMA/RI): a novel approach to reduce collisions in CSMA/CD. IEEE Journal on Selected Areas in Communications, 2000, 18, 1572-1580.	14.0	4

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73	Analytical performance evaluation of a two class DiffServ link. , 0, , .		4
74	An Optimized Polymorphic Hybrid Multicast Routing Protocol (OPHMR) for Ad Hoc Networks. , 2006, , .		4
75	Modeling Hop Length Distributions for Reactive Routing Protocols in One Dimensional MANETs. , 2007, , .		4
76	Sizes of Minimum Connected Dominating Sets of a Class of Wireless Sensor Networks. , 2008, , .		4
77	Improving Videophone Transmission over Multi-Rate IEEE 802.11e Networks. , 2008, , .		4
78	A Service/Device Differentiation Scheme for Contention-Tone-Based Wireless LAN Protocol. IEEE Transactions on Vehicular Technology, 2010, 59, 3872-3885.	6.3	4
79	A Network Lifetime Aware Cooperative MAC Scheme for 802.11b Wireless Networks. , 2010, , .		4
80	Performance improvements for network-wide broadcast with instantaneous network information. Journal of Network and Computer Applications, 2012, 35, 1162-1174.	9.1	4
81	A layerâ€™s multipath solution and its performance evaluation for Data Center Ethernets. International Journal of Communication Systems, 2014, 27, 2555-2576.	2.5	4
82	Out-of-band polling scheme for QoS support in wireless LANs. International Journal of Communication Systems, 2004, 17, 643-661.	2.5	3
83	Distributed routing algorithm for low-latency broadcasting in multi-rate wireless mesh network. , 2009, , .		3
84	Differentiated Congestion Management of Data Traffic for Data Center Ethernet. IEEE Transactions on Network and Service Management, 2011, 8, 322-333.	4.9	3
85	Prompt congestion reaction scheme for data center network using multiple congestion points. , 2012, , .		3
86	Scalable data dissemination protocol for wireless sensor networks. , 2012, , .		3
87	Maximum Multipath Routing Throughput in Multirate Wireless Mesh Networks. , 2014, , .		3
88	A distributed sleep mechanism for energy-efficiency in non-beacon-enabled IEEE 802.15.4 networks. , 2015, , .		3
89	Low-complexity green scheduling for the downlink of coordinated cellular system. , 2015, , .		3
90	Performance impact of antenna height in Ultra-Dense cellular Networks. , 2017, , .		3

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91	Dynamic Scheduler Management Using Deep Learning. IEEE Transactions on Cognitive Communications and Networking, 2020, 6, 575-585.	7.9	3
92	Semi-Markov Modeling for Bandwidth Sharing of TCP Connections with Asymmetric AIMD Congestion Control. , 2007, , .		2
93	Queue Dynamics Analysis of TCP VenO with RED. , 2007, , .		2
94	Fluid-Based Modeling of TCP VenO. , 2008, , .		2
95	Hybrid RF mapping and ranging based localization for wireless sensor networks. , 2009, , .		2
96	A Sender-Side TCP Enhancement for Startup Performance in High-Speed Long-Delay Networks. , 2010, , .		2
97	Cooperative Retransmissions through Collisions. , 2011, , .		2
98	Energy optimizations for data center network: Formulation and its solution. , 2012, , .		2
99	Optimizing content retrieval delay for LT-based distributed cloud storage systems. , 2012, , .		2
100	Lyapunov stability analysis of load balancing in datacenter networks. , 2013, , .		2
101	Recurrent Leaky Bucket. IEEE Signal Processing Letters, 2013, 20, 1244-1248.	3.6	2
102	Trust and Risk Assessment Approach for Access Control in Wireless Sensor Networks. , 2013, , .		2
103	An adaptive multi-layer low-latency transmission scheme for H.264 based screen sharing system. , 2014, , .		2
104	Adaptive configuration of cloud video transcoding. , 2015, , .		2
105	A Learned Bloom Filter-Assisted Scheme for Packet Classification in Software-Defined Networking. IEEE Transactions on Network and Service Management, 2022, 19, 5064-5077.	4.9	2
106	Applying Spring-Relaxation Technique in Cellular Network Localization. , 2010, , .		1
107	Controlling Route Discovery for Efficient Routing in Resource-Constrained Sensor Networks. , 2010, , .		1
108	Scalable Video Adaptation in Wireless Home Networks with a Mixture of IPTV and VoD Users. , 2011, , .		1

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109	Mobility Support for the User in NDN-Based Cloud Storage Service. , 2015, , .		1
110	Low-complexity green scheduling for the coordinated downlink of HetNet system. , 2015, , .		1
111	Load estimation and balancing in heterogeneous wireless networks with cognitive small cells. , 2015, , .		1
112	On expected transmissions for wireless random linear coding. , 2017, , .		1
113	Boundary-enabled fair scheduling in downlink multi-carrier multiple-access networks. , 2017, , .		1
114	Protocols Design and Area Division for Privacy-preserving Delay-aware Authentication in Vehicular Networks. IEEE Transactions on Vehicular Technology, 2021, , 1-1.	6.3	1
115	Wireless Vehicular Sensor and Ad Hoc Networks 2015. International Journal of Distributed Sensor Networks, 2015, 11, 257146.	2.2	1
116	A centralized hybrid scheme for QoS supports in high speed wireless LANs. , 0, , .		0
117	<title>Improving scalable video transmission over IEEE 802.11e networks</title>. , 2005, 6015, 236.		0
118	Joint Network Coding for interfering wireless multicast networks. , 2011, , .		0
119	Complexity-rate-distortion evaluation of video encoding for cloud media computing. , 2011, , .		0
120	Dynamic scheduling of a mixture of scalable IPTV and VoD traffic over wireless home networks. , 2011, , .		0
121	Multi-Rate Broadcasting: Analysis and Design of Stateless Algorithms. , 2011, , .		0
122	IP-Enabled Wireless Sensor Network. International Journal of Distributed Sensor Networks, 2012, 8, 851426.	2.2	0
123	A Generic Polymorphic Unicast Routing Protocol for vehicular ad hoc networks. Wireless Communications and Mobile Computing, 2013, 13, 1295-1308.	1.2	0
124	A Control-theoretic approach for Duty Cycle Adaptation in dynamic wireless sensor networks. , 2017, , .		0
125	Erasure Coding for Ultra-Low Power Wireless Networks. IEEE Transactions on Green Communications and Networking, 2019, 3, 866-875.	5.5	0
126	Medium Access Cooperations for Improving VoIP Capacity over Hybrid 802.16/802.11 Cognitive Radio Networks. Lecture Notes in Computer Science, 2008, , 889-900.	1.3	0

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127	Wireless Vehicular Sensor and Ad Hoc Networks. International Journal of Distributed Sensor Networks, 2014, 10, 769067.	2.2	0