

Chuan Heng Foh

List of Publications by Citations

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102
papers

1,966
citations

21
h-index

42
g-index

127
ext. papers

2,438
ext. citations

4.6
avg. IF

5.1
L-index

#	Paper	IF	Citations
102	A Survey on Software-Defined Networking. <i>IEEE Communications Surveys and Tutorials</i> , 2015 , 17, 27-51	37.1	516
101	Enabling Massive IoT in 5G and Beyond Systems: PHY Radio Frame Design Considerations. <i>IEEE Access</i> , 2016 , 4, 3322-3339	3.5	123
100	An Energy-Aware Trust Derivation Scheme With Game Theoretic Approach in Wireless Sensor Networks for IoT Applications. <i>IEEE Internet of Things Journal</i> , 2014 , 1, 58-69	10.7	121
99	Connectivity, coverage and placement in wireless sensor networks. <i>Sensors</i> , 2009 , 9, 7664-93	3.8	100
98	Comments on IEEE 802.11 saturation throughput analysis with freezing of backoff counters. <i>IEEE Communications Letters</i> , 2005 , 9, 130-132	3.8	84
97	. <i>IEEE Internet of Things Journal</i> , 2021 , 8, 5114-5128	10.7	57
96	An Efficient Cache Strategy in Information Centric Networking Vehicle-to-Vehicle Scenario. <i>IEEE Access</i> , 2017 , 5, 12657-12667	3.5	49
95	QoS-Aware Resource Allocation for Video Transcoding in Clouds. <i>IEEE Transactions on Circuits and Systems for Video Technology</i> , 2017 , 27, 49-61	6.4	48
94	Network connectivity of one-dimensional MANETs with random waypoint movement. <i>IEEE Communications Letters</i> , 2005 , 9, 31-33	3.8	44
93	Defending Against New-Flow Attack in SDN-Based Internet of Things. <i>IEEE Access</i> , 2017 , 5, 3431-3443	3.5	41
92	TC-BAC: A trust and centrality degree based access control model in wireless sensor networks. <i>Ad Hoc Networks</i> , 2013 , 11, 2675-2692	4.8	36
91	A practical path loss model for indoor WiFi positioning enhancement 2007 ,		34
90	A Markovian Framework for Performance Evaluation of IEEE 802.11. <i>IEEE Transactions on Wireless Communications</i> , 2007 , 6, 1276-1265	9.6	33
89	Towards Efficient Resource Allocation for Heterogeneous Workloads in IaaS Clouds. <i>IEEE Transactions on Cloud Computing</i> , 2018 , 6, 264-275	3.3	30
88	Optimal solution for the index coding problem using network coding over GF(2) 2012 ,		27
87	On the selection of transmission range in underwater acoustic sensor networks. <i>Sensors</i> , 2012 , 12, 4715-4728	3.8	26
86	Caching Strategy Based on Hierarchical Cluster for Named Data Networking. <i>IEEE Access</i> , 2017 , 5, 8433-8443	3.5	25

85	. <i>IEEE Transactions on Magnetics</i> , 2013 , 49, 2723-2730	2	24
84	Optimized Cross-Layer Design for Scalable Video Transmission Over the IEEE 802.11e Networks. <i>IEEE Transactions on Circuits and Systems for Video Technology</i> , 2007 , 17, 1665-1678	6.4	24
83	OPHMR: An Optimized Polymorphic Hybrid Multicast Routing Protocol for MANET. <i>IEEE Transactions on Mobile Computing</i> , 2007 , 6, 551-562	4.6	23
82	Mitigating the Table-Overflow Attack in Software-Defined Networking. <i>IEEE Transactions on Network and Service Management</i> , 2017 , 14, 1086-1097	4.8	22
81	. <i>IEEE Sensors Journal</i> , 2012 , 12, 1427-1435	4	20
80	Wireless Indoor Positioning System with Enhanced Nearest Neighbors in Signal Space Algorithm 2006 ,		20
79	Power-Efficient Virtual Machine Placement and Migration in Data Centers 2013 ,		19
78	Meeting connectivity requirements in a wireless multihop network. <i>IEEE Communications Letters</i> , 2006 , 10, 19-21	3.8	19
77	A Collision Avoidance Mechanism for Emergency Message Broadcast in Urban VANET 2016 ,		19
76	Improving WLAN VoIP Capacity Through Service Differentiation. <i>IEEE Transactions on Vehicular Technology</i> , 2008 , 57, 465-474	6.8	18
75	A survey of green scheduling schemes for homogeneous and heterogeneous cellular networks 2015 , 53, 175-181		17
74	Location estimation in wireless sensor networks using spring-relaxation technique. <i>Sensors</i> , 2010 , 10, 5171-92	3.8	16
73	FULL-RCMA: a high utilization EPON. <i>IEEE Journal on Selected Areas in Communications</i> , 2004 , 22, 1514-1524	4	16
72	An efficient network coding based retransmission algorithm for wireless multicast 2009 ,		15
71	Cell Fault Management Using Machine Learning Techniques. <i>IEEE Access</i> , 2019 , 7, 124514-124539	3.5	13
70	Online XOR packet coding: Efficient single-hop wireless multicasting with low decoding delay. <i>Computer Communications</i> , 2014 , 39, 65-77	5.1	13
69	LT-W: Improving LT Decoding With Wiedemann Solver. <i>IEEE Transactions on Information Theory</i> , 2013 , 59, 7887-7897	2.8	12
68	A channel model for power line communication in the smart grid 2011 ,		11

67	Impulsive noise reduction of a narrowband power line communication using optimal nonlinearity technique 2011 ,		11
66	Energy minimization via dynamic voltage scaling for real-time video encoding on mobile devices 2012 ,		11
65	Analysis of the IEEE 802.11e EDCA Under Statistical Traffic 2006 ,		11
64	PMNDN: Proxy Based Mobility Support Approach in Mobile NDN Environment. <i>IEEE Transactions on Network and Service Management</i> , 2017 , 14, 191-203	4.8	10
63	An adaptive approach for elephant flow detection with the rapidly changing traffic in data center network. <i>International Journal of Network Management</i> , 2017 , 27, e1987	1.8	10
62	Variable elasticity spring-relaxation: improving the accuracy of localization for WSNs with unknown path loss exponent. <i>Personal and Ubiquitous Computing</i> , 2012 , 16, 929-941	2.1	10
61	Retry Limit Based ULP for Scalable Video Transmission over IEEE 802.11e WLANs. <i>IEEE Communications Letters</i> , 2007 , 11, 498-500	3.8	10
60	Reliable emergency message dissemination protocol for urban internet of vehicles. <i>IET Communications</i> , 2017 , 11, 1275-1281	1.3	8
59	Hop-distance relationship analysis with quasi-UDG model for node localization in wireless sensor networks. <i>Eurasip Journal on Wireless Communications and Networking</i> , 2011 , 2011,	3.2	8
58	Collision Codes: Decoding Superimposed BPSK Modulated Wireless Transmissions 2010 ,		8
57	Hybrid Collision-Free Medium Access (HCFMA) Protocol for Underwater Acoustic Networks: Design and Performance Evaluation. <i>IEEE Journal of Oceanic Engineering</i> , 2015 , 40, 292-302	3.3	7
56	Primer and Recent Developments on Fountain Codes. <i>Recent Advances in Communications and Networking Technology</i> , 2014 , 2, 2-11		7
55	Towards multi-resource physical machine provisioning for IaaS clouds 2014 ,		6
54	Joint Unequal Loss Protection and LT Coding for Layer-Coded Media Delivery 2010 ,		6
53	Dynamic Load Balancing Multipathing in Data Center Ethernet 2010 ,		6
52	IEEE Access Special Section Editorial: Advances in Vehicular Clouds. <i>IEEE Access</i> , 2016 , 4, 10315-10317	3.5	5
51	Optimal Disk Storage Allocation for Multitier Storage System. <i>IEEE Transactions on Magnetics</i> , 2013 , 49, 2603-2609	2	5
50	Towards reproducible performance studies of datacenter network architectures using an open-source simulation approach 2013 ,		5

49	. <i>IEEE Transactions on Multimedia</i> , 2011 , 13, 1116-1126	6.6	5
48	DC-MAC: A data-centric multi-hop MAC protocol for underwater acoustic sensor networks 2011 ,		5
47	An On-Off Queue Control Mechanism for Scalable Video Streaming over the IEEE 802.11e WLAN 2008 ,		5
46	A Survey of Abnormal Traffic Information Detection and Transmission Mechanisms in VSNs. <i>International Journal of Distributed Sensor Networks</i> , 2014 , 10, 582761	1.7	5
45	Performance improvements for network-wide broadcast with instantaneous network information. <i>Journal of Network and Computer Applications</i> , 2012 , 35, 1162-1174	7.9	4
44	RSS Ranging Based Wi-Fi Localization for Unknown Path Loss Exponent 2011 ,		4
43	A Service/Device Differentiation Scheme for Contention-Tone-Based Wireless LAN Protocol. <i>IEEE Transactions on Vehicular Technology</i> , 2010 , 59, 3872-3885	6.8	4
42	An Optimized Polymorphic Hybrid Multicast Routing Protocol (OPHMR) for Ad Hoc Networks 2006 ,		4
41	WLC24-1: Dynamic MAC Parameters Configuration for Performance Optimization in 802.11e Networks. <i>IEEE Global Telecommunications Conference (GLOBECOM)</i> , 2006 ,		4
40	. <i>IEEE Transactions on Wireless Communications</i> , 2021 , 1-1	9.6	4
39	Differentiated Congestion Management of Data Traffic for Data Center Ethernet. <i>IEEE Transactions on Network and Service Management</i> , 2011 , 8, 322-333	4.8	3
38	Differentiated Ethernet Congestion Management for Prioritized Traffic 2010 ,		3
37	LT codes decoding: Design and analysis 2009 ,		3
36	An Enhancement of TFRC over Wireless Networks 2007 ,		3
35	Modeling Hop Length Distributions for Reactive Routing Protocols in One Dimensional MANETs 2007 ,		3
34	An Efficient Prediction-Based Data Forwarding Strategy in Vehicular Ad Hoc Network. <i>International Journal of Distributed Sensor Networks</i> , 2015 , 11, 128725	1.7	3
33	Beam-Based Mobility Management in 5G Millimetre Wave V2X Communications: A Survey and Outlook. <i>IEEE Open Journal of Intelligent Transportation Systems</i> , 2021 , 2, 347-363	1.7	3
32	. <i>IEEE Transactions on Cognitive Communications and Networking</i> , 2020 , 6, 575-585	6.6	2

31	2015,		2
30	Trust and Risk Assessment Approach for Access Control in Wireless Sensor Networks 2013,		2
29	A layer 2 multipath solution and its performance evaluation for Data Center Ethernets. <i>International Journal of Communication Systems</i> , 2013 , 27, n/a-n/a	1.7	2
28	A Sender-Side TCP Enhancement for Startup Performance in High-Speed Long-Delay Networks 2010,		2
27	Prompt congestion reaction scheme for data center network using multiple congestion points 2012		2
26	Sizes of Minimum Connected Dominating Sets of a Class of Wireless Sensor Networks 2008,		2
25	Out-of-band polling scheme for QoS support in wireless LANs. <i>International Journal of Communication Systems</i> , 2004 , 17, 643-661	1.7	2
24	A new technique for performance evaluation of random access protocols		2
23	CSMA with reservations by interruptions (CSMA/RI): a novel approach to reduce collisions in CSMA/CD. <i>IEEE Journal on Selected Areas in Communications</i> , 2000 , 18, 1572-1580	14.2	2
22	Lyapunov stability analysis of load balancing in datacenter networks 2013,		1
21	Recurrent Leaky Bucket. <i>IEEE Signal Processing Letters</i> , 2013 , 20, 1244-1248	3.2	1
20	Performance impact of antenna height in Ultra-Dense cellular Networks 2017,		1
19	On expected transmissions for wireless random linear coding 2017,		1
18	Boundary-enabled fair scheduling in downlink multi-carrier multiple-access networks 2017,		1
17	Maximum Multipath Routing Throughput in Multirate Wireless Mesh Networks 2014,		1
16	An adaptive multi-layer low-latency transmission scheme for H.264 based screen sharing system 2014,		1
15	Optimizing content retrieval delay for LT-based distributed cloud storage systems 2012,		1
14	A Network Lifetime Aware Cooperative MAC Scheme for 802.11b Wireless Networks 2010,		1

13	Controlling Route Discovery for Efficient Routing in Resource-Constrained Sensor Networks 2010 ,		1
12	Hybrid RF mapping and ranging based localization for wireless sensor networks 2009 ,		1
11	Cooperative Retransmissions through Collisions 2011 ,		1
10	Energy optimizations for data center network: Formulation and its solution 2012 ,		1
9	Improving Videophone Transmission over Multi-Rate IEEE 802.11e Networks 2008 ,		1
8	Fluid-Based Modeling of TCP Veno 2008 ,		1
7	An enhancement of TCP Veno over light-load wireless networks. <i>IEEE Communications Letters</i> , 2006 , 10, 441-443	3.8	1
6	Low-Complexity Channel Estimation and Multi-User Detection for Uplink Grant-free NOMA Systems. <i>IEEE Wireless Communications Letters</i> , 2021 , 1-1	5.9	1
5	Wireless Vehicular Sensor and Ad Hoc Networks 2015. <i>International Journal of Distributed Sensor Networks</i> , 2015 , 11, 257146	1.7	1
4	Erasure Coding for Ultra-Low Power Wireless Networks. <i>IEEE Transactions on Green Communications and Networking</i> , 2019 , 3, 866-875	4	
3	A Generic Polymorphic Unicast Routing Protocol for vehicular ad hoc networks. <i>Wireless Communications and Mobile Computing</i> , 2013 , 13, 1295-1308	1.9	
2	Medium Access Cooperations for Improving VoIP Capacity over Hybrid 802.16/802.11 Cognitive Radio Networks. <i>Lecture Notes in Computer Science</i> , 2008 , 889-900	0.9	
1	Protocols Design and Area Division for Privacy-preserving Delay-aware Authentication in Vehicular Networks. <i>IEEE Transactions on Vehicular Technology</i> , 2021 , 1-1	6.8	