

# Chuan Heng Foh

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	Low-Complexity Channel Estimation and Multi-User Detection for Uplink Grant-free NOMA Systems. <i>IEEE Wireless Communications Letters</i> , <b>2021</b> , 1-1	5.9	1
101	. <i>IEEE Internet of Things Journal</i> , <b>2021</b> , 8, 5114-5128	10.7	57
100	. <i>IEEE Transactions on Wireless Communications</i> , <b>2021</b> , 1-1	9.6	4
99	Protocols Design and Area Division for Privacy-preserving Delay-aware Authentication in Vehicular Networks. <i>IEEE Transactions on Vehicular Technology</i> , <b>2021</b> , 1-1	6.8	
98	Beam-Based Mobility Management in 5G Millimetre Wave V2X Communications: A Survey and Outlook. <i>IEEE Open Journal of Intelligent Transportation Systems</i> , <b>2021</b> , 2, 347-363	1.7	3
97	. <i>IEEE Transactions on Cognitive Communications and Networking</i> , <b>2020</b> , 6, 575-585	6.6	2
96	Cell Fault Management Using Machine Learning Techniques. <i>IEEE Access</i> , <b>2019</b> , 7, 124514-124539	3.5	13
95	Erasure Coding for Ultra-Low Power Wireless Networks. <i>IEEE Transactions on Green Communications and Networking</i> , <b>2019</b> , 3, 866-875	4	
94	Towards Efficient Resource Allocation for Heterogeneous Workloads in IaaS Clouds. <i>IEEE Transactions on Cloud Computing</i> , <b>2018</b> , 6, 264-275	3.3	30
93	PMNDN: Proxy Based Mobility Support Approach in Mobile NDN Environment. <i>IEEE Transactions on Network and Service Management</i> , <b>2017</b> , 14, 191-203	4.8	10
92	Defending Against New-Flow Attack in SDN-Based Internet of Things. <i>IEEE Access</i> , <b>2017</b> , 5, 3431-3443	3.5	41
91	Caching Strategy Based on Hierarchical Cluster for Named Data Networking. <i>IEEE Access</i> , <b>2017</b> , 5, 8433-8443	3.5	25
90	An Efficient Cache Strategy in Information Centric Networking Vehicle-to-Vehicle Scenario. <i>IEEE Access</i> , <b>2017</b> , 5, 12657-12667	3.5	49
89	Reliable emergency message dissemination protocol for urban internet of vehicles. <i>IET Communications</i> , <b>2017</b> , 11, 1275-1281	1.3	8
88	Mitigating the Table-Overflow Attack in Software-Defined Networking. <i>IEEE Transactions on Network and Service Management</i> , <b>2017</b> , 14, 1086-1097	4.8	22
87	An adaptive approach for elephant flow detection with the rapidly changing traffic in data center network. <i>International Journal of Network Management</i> , <b>2017</b> , 27, e1987	1.8	10
86	Performance impact of antenna height in Ultra-Dense cellular Networks <b>2017</b> ,		1

85	QoS-Aware Resource Allocation for Video Transcoding in Clouds. <i>IEEE Transactions on Circuits and Systems for Video Technology</i> , <b>2017</b> , 27, 49-61	6.4	48
84	On expected transmissions for wireless random linear coding <b>2017</b> ,		1
83	Boundary-enabled fair scheduling in downlink multi-carrier multiple-access networks <b>2017</b> ,		1
82	Enabling Massive IoT in 5G and Beyond Systems: PHY Radio Frame Design Considerations. <i>IEEE Access</i> , <b>2016</b> , 4, 3322-3339	3.5	123
81	IEEE Access Special Section Editorial: Advances in Vehicular Clouds. <i>IEEE Access</i> , <b>2016</b> , 4, 10315-10317	3.5	5
80	A Collision Avoidance Mechanism for Emergency Message Broadcast in Urban VANET <b>2016</b> ,		19
79	A survey of green scheduling schemes for homogeneous and heterogeneous cellular networks <b>2015</b> , 53, 175-181		17
78	Hybrid Collision-Free Medium Access (HCFMA) Protocol for Underwater Acoustic Networks: Design and Performance Evaluation. <i>IEEE Journal of Oceanic Engineering</i> , <b>2015</b> , 40, 292-302	3.3	7
77	A Survey on Software-Defined Networking. <i>IEEE Communications Surveys and Tutorials</i> , <b>2015</b> , 17, 27-51	37.1	516
76	<b>2015</b> ,		2
75	An Efficient Prediction-Based Data Forwarding Strategy in Vehicular Ad Hoc Network. <i>International Journal of Distributed Sensor Networks</i> , <b>2015</b> , 11, 128725	1.7	3
74	Wireless Vehicular Sensor and Ad Hoc Networks 2015. <i>International Journal of Distributed Sensor Networks</i> , <b>2015</b> , 11, 257146	1.7	1
73	An Energy-Aware Trust Derivation Scheme With Game Theoretic Approach in Wireless Sensor Networks for IoT Applications. <i>IEEE Internet of Things Journal</i> , <b>2014</b> , 1, 58-69	10.7	121
72	Primer and Recent Developments on Fountain Codes. <i>Recent Advances in Communications and Networking Technology</i> , <b>2014</b> , 2, 2-11		7
71	Maximum Multipath Routing Throughput in Multirate Wireless Mesh Networks <b>2014</b> ,		1
70	An adaptive multi-layer low-latency transmission scheme for H.264 based screen sharing system <b>2014</b> ,		1
69	Towards multi-resource physical machine provisioning for IaaS clouds <b>2014</b> ,		6
68	Online XOR packet coding: Efficient single-hop wireless multicasting with low decoding delay. <i>Computer Communications</i> , <b>2014</b> , 39, 65-77	5.1	13

67	A Survey of Abnormal Traffic Information Detection and Transmission Mechanisms in VSNs. <i>International Journal of Distributed Sensor Networks</i> , <b>2014</b> , 10, 582761	1.7	5
66	A Generic Polymorphic Unicast Routing Protocol for vehicular ad hoc networks. <i>Wireless Communications and Mobile Computing</i> , <b>2013</b> , 13, 1295-1308	1.9	
65	. <i>IEEE Transactions on Magnetics</i> , <b>2013</b> , 49, 2723-2730	2	24
64	Optimal Disk Storage Allocation for Multitier Storage System. <i>IEEE Transactions on Magnetics</i> , <b>2013</b> , 49, 2603-2609	2	5
63	Lyapunov stability analysis of load balancing in datacenter networks <b>2013</b> ,		1
62	Recurrent Leaky Bucket. <i>IEEE Signal Processing Letters</i> , <b>2013</b> , 20, 1244-1248	3.2	1
61	TC-BAC: A trust and centrality degree based access control model in wireless sensor networks. <i>Ad Hoc Networks</i> , <b>2013</b> , 11, 2675-2692	4.8	36
60	LT-W: Improving LT Decoding With Wiedemann Solver. <i>IEEE Transactions on Information Theory</i> , <b>2013</b> , 59, 7887-7897	2.8	12
59	Power-Efficient Virtual Machine Placement and Migration in Data Centers <b>2013</b> ,		19
58	Towards reproducible performance studies of datacenter network architectures using an open-source simulation approach <b>2013</b> ,		5
57	Trust and Risk Assessment Approach for Access Control in Wireless Sensor Networks <b>2013</b> ,		2
56	A layer 2 multipath solution and its performance evaluation for Data Center Ethernets. <i>International Journal of Communication Systems</i> , <b>2013</b> , 27, n/a-n/a	1.7	2
55	Performance improvements for network-wide broadcast with instantaneous network information. <i>Journal of Network and Computer Applications</i> , <b>2012</b> , 35, 1162-1174	7.9	4
54	Variable elasticity spring-relaxation: improving the accuracy of localization for WSNs with unknown path loss exponent. <i>Personal and Ubiquitous Computing</i> , <b>2012</b> , 16, 929-941	2.1	10
53	On the selection of transmission range in underwater acoustic sensor networks. <i>Sensors</i> , <b>2012</b> , 12, 4715-4728	3.8	26
52	. <i>IEEE Sensors Journal</i> , <b>2012</b> , 12, 1427-1435	4	20
51	Optimizing content retrieval delay for LT-based distributed cloud storage systems <b>2012</b> ,		1
50	Prompt congestion reaction scheme for data center network using multiple congestion points <b>2012</b> ,		2

49	Energy optimizations for data center network: Formulation and its solution <b>2012</b> ,		1
48	Energy minimization via dynamic voltage scaling for real-time video encoding on mobile devices <b>2012</b> ,		11
47	Optimal solution for the index coding problem using network coding over GF(2) <b>2012</b> ,		27
46	. <i>IEEE Transactions on Multimedia</i> , <b>2011</b> , 13, 1116-1126	6.6	5
45	A channel model for power line communication in the smart grid <b>2011</b> ,		11
44	Differentiated Congestion Management of Data Traffic for Data Center Ethernet. <i>IEEE Transactions on Network and Service Management</i> , <b>2011</b> , 8, 322-333	4.8	3
43	Hop-distance relationship analysis with quasi-UDG model for node localization in wireless sensor networks. <i>Eurasip Journal on Wireless Communications and Networking</i> , <b>2011</b> , 2011,	3.2	8
42	DC-MAC: A data-centric multi-hop MAC protocol for underwater acoustic sensor networks <b>2011</b> ,		5
41	Cooperative Retransmissions through Collisions <b>2011</b> ,		1
40	RSS Ranging Based Wi-Fi Localization for Unknown Path Loss Exponent <b>2011</b> ,		4
39	Impulsive noise reduction of a narrowband power line communication using optimal nonlinearity technique <b>2011</b> ,		11
38	Differentiated Ethernet Congestion Management for Prioritized Traffic <b>2010</b> ,		3
37	Joint Unequal Loss Protection and LT Coding for Layer-Coded Media Delivery <b>2010</b> ,		6
36	Location estimation in wireless sensor networks using spring-relaxation technique. <i>Sensors</i> , <b>2010</b> , 10, 5171-92	3.8	16
35	A Sender-Side TCP Enhancement for Startup Performance in High-Speed Long-Delay Networks <b>2010</b> ,		2
34	Collision Codes: Decoding Superimposed BPSK Modulated Wireless Transmissions <b>2010</b> ,		8
33	A Network Lifetime Aware Cooperative MAC Scheme for 802.11b Wireless Networks <b>2010</b> ,		1
32	Controlling Route Discovery for Efficient Routing in Resource-Constrained Sensor Networks <b>2010</b> ,		1

31	Dynamic Load Balancing Multipathing in Data Center Ethernet <b>2010</b> ,		6
30	A Service/Device Differentiation Scheme for Contention-Tone-Based Wireless LAN Protocol. <i>IEEE Transactions on Vehicular Technology</i> , <b>2010</b> , 59, 3872-3885	6.8	4
29	Hybrid RF mapping and ranging based localization for wireless sensor networks <b>2009</b> ,		1
28	An efficient network coding based retransmission algorithm for wireless multicast <b>2009</b> ,		15
27	Connectivity, coverage and placement in wireless sensor networks. <i>Sensors</i> , <b>2009</b> , 9, 7664-93	3.8	100
26	LT codes decoding: Design and analysis <b>2009</b> ,		3
25	Improving WLAN VoIP Capacity Through Service Differentiation. <i>IEEE Transactions on Vehicular Technology</i> , <b>2008</b> , 57, 465-474	6.8	18
24	Sizes of Minimum Connected Dominating Sets of a Class of Wireless Sensor Networks <b>2008</b> ,		2
23	Improving Videophone Transmission over Multi-Rate IEEE 802.11e Networks <b>2008</b> ,		1
22	An On-Off Queue Control Mechanism for Scalable Video Streaming over the IEEE 802.11e WLAN <b>2008</b> ,		5
21	Fluid-Based Modeling of TCP VenO <b>2008</b> ,		1
20	Medium Access Cooperations for Improving VoIP Capacity over Hybrid 802.16/802.11 Cognitive Radio Networks. <i>Lecture Notes in Computer Science</i> , <b>2008</b> , 889-900	0.9	
19	A Markovian Framework for Performance Evaluation of IEEE 802.11. <i>IEEE Transactions on Wireless Communications</i> , <b>2007</b> , 6, 1276-1265	9.6	33
18	An Enhancement of TFRC over Wireless Networks <b>2007</b> ,		3
17	Modeling Hop Length Distributions for Reactive Routing Protocols in One Dimensional MANETs <b>2007</b> ,		3
16	Retry Limit Based ULP for Scalable Video Transmission over IEEE 802.11e WLANs. <i>IEEE Communications Letters</i> , <b>2007</b> , 11, 498-500	3.8	10
15	OPHMR: An Optimized Polymorphic Hybrid Multicast Routing Protocol for MANET. <i>IEEE Transactions on Mobile Computing</i> , <b>2007</b> , 6, 551-562	4.6	23
14	A practical path loss model for indoor WiFi positioning enhancement <b>2007</b> ,		34

13	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> , <b>2007</b> , 17, 1665-1678	6.4	24
12	Wireless Indoor Positioning System with Enhanced Nearest Neighbors in Signal Space Algorithm <b>2006</b> ,		20
11	An Optimized Polymorphic Hybrid Multicast Routing Protocol (OPHMR) for Ad Hoc Networks <b>2006</b> ,		4
10	WLC24-1: Dynamic MAC Parameters Configuration for Performance Optimization in 802.11e Networks. <i>IEEE Global Telecommunications Conference (GLOBECOM)</i> , <b>2006</b> ,		4
9	Analysis of the IEEE 802.11e EDCA Under Statistical Traffic <b>2006</b> ,		11
8	Meeting connectivity requirements in a wireless multihop network. <i>IEEE Communications Letters</i> , <b>2006</b> , 10, 19-21	3.8	19
7	An enhancement of TCP Veno over light-load wireless networks. <i>IEEE Communications Letters</i> , <b>2006</b> , 10, 441-443	3.8	1
6	Comments on IEEE 802.11 saturation throughput analysis with freezing of backoff counters. <i>IEEE Communications Letters</i> , <b>2005</b> , 9, 130-132	3.8	84
5	Network connectivity of one-dimensional MANETs with random waypoint movement. <i>IEEE Communications Letters</i> , <b>2005</b> , 9, 31-33	3.8	44
4	Out-of-band polling scheme for QoS support in wireless LANs. <i>International Journal of Communication Systems</i> , <b>2004</b> , 17, 643-661	1.7	2
3	FULL-RCMA: a high utilization EPON. <i>IEEE Journal on Selected Areas in Communications</i> , <b>2004</b> , 22, 1514-1524	14.4	16
2	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> , <b>2000</b> , 18, 1572-1580	14.2	2
1	A new technique for performance evaluation of random access protocols		2