Chuan Heng Foh

List of Publications by Year
in descending order

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	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
2	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
3	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
4	Throughput Analysis and User Barring Design for Uplink NOMA-Enabled Random Access. IEEE Transactions on Wireless Communications, 2021, 20, 6298-6314.	9.2	19
5	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
6	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
7	Dynamic Scheduler Management Using Deep Learning. IEEE Transactions on Cognitive Communications and Networking, 2020, 6, 575-585.	7.9	3
8	Erasure Coding for Ultra-Low Power Wireless Networks. IEEE Transactions on Green Communications and Networking, 2019, 3, 866-875.	5.5	0
9	Cell Fault Management Using Machine Learning Techniques. IEEE Access, 2019, 7, 124514-124539.	4.2	30
10	Towards Efficient Resource Allocation for Heterogeneous Workloads in IaaS Clouds. IEEE Transactions on Cloud Computing, 2018, 6, 264-275.	4.4	56
11	PMNDN: Proxy Based Mobility Support Approach in Mobile NDN Environment. IEEE Transactions on Network and Service Management, 2017, 14, 191-203.	4.9	18
12	Defending Against New-Flow Attack in SDN-Based Internet of Things. IEEE Access, 2017, 5, 3431-3443.	4.2	54
13	Caching Strategy Based on Hierarchical Cluster for Named Data Networking. IEEE Access, 2017, 5, 8433-8443.	4.2	33
14	An Efficient Cache Strategy in Information Centric Networking Vehicle-to-Vehicle Scenario. IEEE Access, 2017, 5, 12657-12667.	4.2	64
15	Reliable emergency message dissemination protocol for urban internet of vehicles. IET Communications, 2017, 11, 1275-1281.	2.2	12
16	Mitigating the Table-Overflow Attack in Software-Defined Networking. IEEE Transactions on Network and Service Management, 2017, 14, 1086-1097.	4.9	39
17	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
18	Performance impact of antenna height in Ultra-Dense cellular Networks. , 2017, , .		3

#	ARTICLE	IF	CITATIONS
19	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
20	A Control-theoretic approach for Duty Cycle Adaptation in dynamic wireless sensor networks. , 2017, , .		0
21	On expected transmissions for wireless random linear coding. , 2017, , .		1
22	Boundary-enabled fair scheduling in downlink multi-carrier multiple-access networks. , 2017, , .		1
23	A Collision Avoidance Mechanism for Emergency Message Broadcast in Urban VANET. , 2016, , .		26
24	Enabling Massive IoT in 5G and Beyond Systems: PHY Radio Frame Design Considerations. IEEE Access, 2016, 4, 3322-3339.	4.2	182
25	IEEE Access Special Section Editorial: Advances in Vehicular Clouds. IEEE Access, 2016, 4, 10315-10317.	4.2	6
26	Mobility Support for the User in NDN-Based Cloud Storage Service. , 2015, , .		1
27	Low-complexity green scheduling for the coordinated downlink of HetNet system. , 2015, , .		1
28	Adaptive configuration of cloud video transcoding. , 2015, , .		2
29	A distributed sleep mechanism for energy-efficiency in non-beacon-enabled IEEE 802.15.4 networks. , 2015, , .		3
30	Low-complexity green scheduling for the downlink of coordinated cellular system. , 2015, , .		3
31	Load estimation and balancing in heterogeneous wireless networks with cognitive small cells. , 2015, , .		1
32	A survey of green scheduling schemes for homogeneous and heterogeneous cellular networks. , 2015, 53, 175-181.		19
33	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
34	A Survey on Software-Defined Networking. IEEE Communications Surveys and Tutorials, 2015, 17, 27-51.	39.4	751
35	An Efficient Prediction-Based Data Forwarding Strategy in Vehicular Ad Hoc Network. International Journal of Distributed Sensor Networks, 2015, 11, 128725.	2.2	5
36	Wireless Vehicular Sensor and Ad Hoc Networks 2015. International Journal of Distributed Sensor Networks, 2015, 11, 257146.	2.2	1

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37	A layer‰2 multipath solution and its performance evaluation for Data Center Ethernets. International Journal of Communication Systems, 2014, 27, 2555-2576.	2.5	4
38	Primer and Recent Developments on Fountain Codes. Recent Advances in Communications and Networking Technology, 2014, 2, 2-11.	0.1	8
39	Maximum Multipath Routing Throughput in Multirate Wireless Mesh Networks. , 2014, , .		3
40	An adaptive multi-layer low-latency transmission scheme for H.264 based screen sharing system. , 2014, , .		2
41	Towards multi-resource physical machine provisioning for IaaS clouds. , 2014, , .		7
42	Online XOR packet coding: Efficient single-hop wireless multicasting with low decoding delay. Computer Communications, 2014, 39, 65-77.	5.1	15
43	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
44	A Survey of Abnormal Traffic Information Detection and Transmission Mechanisms in VSNs. International Journal of Distributed Sensor Networks, 2014, 10, 582761.	2.2	7
45	Wireless Vehicular Sensor and Ad Hoc Networks. International Journal of Distributed Sensor Networks, 2014, 10, 769067.	2.2	0
46	A Generic Polymorphic Unicast Routing Protocol for vehicular ad hoc networks. Wireless Communications and Mobile Computing, 2013, 13, 1295-1308.	1.2	0
47	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
48	Optimal Disk Storage Allocation for Multitier Storage System. IEEE Transactions on Magnetics, 2013, 49, 2603-2609.	2.1	12
49	Lyapunov stability analysis of load balancing in datacenter networks. , 2013, , .		2
50	Recurrent Leaky Bucket. IEEE Signal Processing Letters, 2013, 20, 1244-1248.	3.6	2
51	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
52	LT-W: Improving LT Decoding With Wiedemann Solver. IEEE Transactions on Information Theory, 2013, 59, 7887-7897.	2.4	15
53	Power-Efficient Virtual Machine Placement and Migration in Data Centers. , 2013, , .		28
54	Towards reproducible performance studies of datacenter network architectures using an open-source simulation approach. , 2013, , .		13

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55	Trust and Risk Assessment Approach for Access Control in Wireless Sensor Networks. , 2013, , .		2
56	IP-Enabled Wireless Sensor Network. International Journal of Distributed Sensor Networks, 2012, 8, 851426.	2.2	0
57	Prompt congestion reaction scheme for data center network using multiple congestion points. , 2012, , .		3
58	Energy optimizations for data center network: Formulation and its solution. , 2012, , .		2
59	Energy minimization via dynamic voltage scaling for real-time video encoding on mobile devices. , 2012, , .		14
60	Optimal solution for the index coding problem using network coding over GF(2). , 2012, , .		31
61	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
62	Scalable data dissemination protocol for wireless sensor networks. , 2012, , .		3
63	On the Selection of Transmission Range in Underwater Acoustic Sensor Networks. Sensors, 2012, 12, 4715-4729.	3.8	33
64	Hybrid RF Mapping and Kalman Filtered Spring Relaxation for Sensor Network Localization. IEEE Sensors Journal, 2012, 12, 1427-1435.	4.7	24
65	Optimizing content retrieval delay for LT-based distributed cloud storage systems. , 2012, , .		2
66	Performance improvements for network-wide broadcast with instantaneous network information. Journal of Network and Computer Applications, 2012, 35, 1162-1174.	9.1	4
67	DC-MAC: A data-centric multi-hop MAC protocol for underwater acoustic sensor networks. , 2011, , .		7
68	Joint Network Coding for interfering wireless multicast networks. , 2011, , .		0
69	Complexity-rate-distortion evaluation of video encoding for cloud media computing. , 2011, , .		0
70	Performance Evaluation of IPTV Over Wireless Home Networks. IEEE Transactions on Multimedia, 2011, 13, 1116-1126.	7.2	9
71	A channel model for power line communication in the smart grid. , 2011, , .		14
72	Differentiated Congestion Management of Data Traffic for Data Center Ethernet. IEEE Transactions on Network and Service Management, 2011, 8, 322-333.	4.9	3

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73	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
74	Dynamic scheduling of a mixture of scalable IPTV and VoD traffic over wireless home networks. , 2011, , .		0
75	Exploiting wireless broadcast advantage as a network-wide cache. , 2011, , .		5
76	Cooperative Retransmissions through Collisions. , 2011, , .		2
77	Multi-Rate Broadcasting: Analysis and Design of Stateless Algorithms. , 2011, , .		0
78	Scalable Video Adaptation in Wireless Home Networks with a Mixture of IPTV and VoD Users. , 2011, , .		1
79	RSS Ranging Based Wi-Fi Localization for Unknown Path Loss Exponent. , 2011, , .		6
80	Impulsive noise reduction of a narrowband power line communication using optimal nonlinearity technique. , 2011, , .		16
81	A Service/Device Differentiation Scheme for Contention-Tone-Based Wireless LAN Protocol. IEEE Transactions on Vehicular Technology, 2010, 59, 3872-3885.	6.3	4
82	Differentiated Ethernet Congestion Management for Prioritized Traffic. , 2010, , .		5
83	Joint Unequal Loss Protection and LT Coding for Layer-Coded Media Delivery. , 2010, , .		8
84	Applying Spring-Relaxation Technique in Cellular Network Localization. , 2010, , .		1
85	Location Estimation in Wireless Sensor Networks Using Spring-Relaxation Technique. Sensors, 2010, 10, 5171-5192.	3.8	21
86	A Sender-Side TCP Enhancement for Startup Performance in High-Speed Long-Delay Networks. , 2010, , .		2
87	Collision Codes: Decoding Superimposed BPSK Modulated Wireless Transmissions. , 2010, , .		9
88	A Network Lifetime Aware Cooperative MAC Scheme for 802.11b Wireless Networks. , 2010, , .		4
89	Controlling Route Discovery for Efficient Routing in Resource-Constrained Sensor Networks. , 2010, , .		1
90	Dynamic Load Balancing Multipathing in Data Center Ethernet. , 2010, , .		7

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91	Hybrid RF mapping and ranging based localization for wireless sensor networks. , 2009, , .		2
92	An efficient network coding based retransmission algorithm for wireless multicast. , 2009, , .		22
93	Distributed routing algorithm for low-latency broadcasting in multi-rate wireless mesh network. , 2009, , .		3
94	Connectivity, Coverage and Placement in Wireless Sensor Networks. Sensors, 2009, 9, 7664-7693.	3.8	129
95	LT codes decoding: Design and analysis. , 2009, , .		16
96	Improving WLAN VoIP Capacity Through Service Differentiation. IEEE Transactions on Vehicular Technology, 2008, 57, 465-474.	6.3	27
97	Sizes of Minimum Connected Dominating Sets of a Class of Wireless Sensor Networks. , 2008, , .		4
98	Improving Videophone Transmission over Multi-Rate IEEE 802.11e Networks. , 2008, , .		4
99	An On-Off Queue Control Mechanism for Scalable Video Streaming over the IEEE 802.11e WLAN. , 2008, , .		5
100	Fluid-Based Modeling of TCP Veno. , 2008, , .		2
101	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
102	A Markovian Framework for Performance Evaluation of IEEE 802.11. IEEE Transactions on Wireless Communications, 2007, 6, 1276-1265.	9.2	47
103	Semi-Markov Modeling for Bandwidth Sharing of TCP Connections with Asymmetric AIMD Congestion Control. , 2007, , .		2
104	Queue Dynamics Analysis of TCP Veno with RED. , 2007, , .		2
105	An Enhancement of TFRC over Wireless Networks. , 2007, , .		6
106	Modeling Hop Length Distributions for Reactive Routing Protocols in One Dimensional MANETs. , 2007, , .		4
107	Retry Limit Based ULP for Scalable Video Transmission over IEEE 802.11e WLANs. IEEE Communications Letters, 2007, 11, 498-500.	4.1	13
108	OPHMR: An Optimized Polymorphic Hybrid Multicast Routing Protocol for MANET. IEEE Transactions on Mobile Computing, 2007, 6, 551-562.	5.8	35

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109	A practical path loss model for indoor WiFi positioning enhancement. , 2007, , .		88
110	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
111	Analysis of the IEEE 802.11e EDCA Under Statistical Traffic. , 2006, , .		20
112	Meeting connectivity requirements in a wireless multihop network. IEEE Communications Letters, 2006, 10, 19-21.	4.1	25
113	An enhancement of TCP veno over light-load wireless networks. IEEE Communications Letters, 2006, 10, 441-443.	4.1	6
114	Wireless Indoor Positioning System with Enhanced Nearest Neighbors in Signal Space Algorithm. , 2006, , .		26
115	An Optimized Polymorphic Hybrid Multicast Routing Protocol (OPHMR) for Ad Hoc Networks. , 2006, , .		4
116	WLC24-1: Dynamic MAC Parameters Configuration for Performance Optimization in 802.11e Networks. IEEE Global Telecommunications Conference (GLOBECOM), 2006, , .	0.0	8
117	<title>Improving scalable video transmission over IEEE 802.11e networks</title>. , 2005, 6015, 236.		0
118	Comments on IEEE 802.11 saturation throughput analysis with freezing of backoff counters. IEEE Communications Letters, 2005, 9, 130-132.	4.1	108
119	Network connectivity of one-dimensional MANETs with random waypoint movement. IEEE Communications Letters, 2005, 9, 31-33.	4.1	58
120	Out-of-band polling scheme for QoS support in wireless LANs. International Journal of Communication Systems, 2004, 17, 643-661.	2.5	3
121	FULL-RCMA: A High Utilization EPON. IEEE Journal on Selected Areas in Communications, 2004, 22, 1514-1524.	14.0	24
122	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
123	Performance evaluation of IEEE 802.11. , 0, , .		8
124	Modeling and performance evaluation of GPRS. , 0, , .		22
125	A new technique for performance evaluation of random access protocols. , 0, , .		9
126	Analytical performance evaluation of a two class DiffServ link. , 0, , .		4

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127	A centralized hybrid scheme for QoS supports in high speed wireless LANs. , 0, , .		0