Y Thomas Hou

List of Publications by Year
in descending order

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101	3,280	304743	206112
papers	citations	22 h-index	48 g-index

103	103	103	2905
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	A Survey of Distributed Consensus Protocols for Blockchain Networks. IEEE Communications Surveys and Tutorials, 2020, 22, 1432-1465.	39.4	470
2	Making Sensor Networks Immortal: An Energy-Renewal Approach With Wireless Power Transfer. IEEE/ACM Transactions on Networking, 2012, 20, 1748-1761.	3.8	352
3	On renewable sensor networks with wireless energy transfer. , 2011, , .		287
4	An Optimal Algorithm for Relay Node Assignment in Cooperative Ad Hoc Networks. IEEE/ACM Transactions on Networking, 2011, 19, 879-892.	3.8	174
5	Cooperative Task Offloading in Three-Tier Mobile Computing Networks: An ADMM Framework. IEEE Transactions on Vehicular Technology, 2019, 68, 2763-2776.	6.3	152
6	A Survey on Security, Privacy, and Trust in Mobile Crowdsourcing. IEEE Internet of Things Journal, 2018, 5, 2971-2992.	8.7	96
7	Cooperative Communications in Multi-hop Wireless Networks: Joint Flow Routing and Relay Node Assignment. , 2010, , .		87
8	Jamming Resilient Communication Using MIMO Interference Cancellation. IEEE Transactions on Information Forensics and Security, 2016, 11, 1486-1499.	6.9	84
9	CaSE: Cache-Assisted Secure Execution on ARM Processors. , 2016, , .		61
10	LRED: A Robust and Responsive AQM Algorithm Using Packet Loss Ratio Measurement. IEEE Transactions on Parallel and Distributed Systems, 2007, 18, 29-43.	5.6	59
11	BeamStar: An Edge-Based Approach to Routing in Wireless Sensor Networks. IEEE Transactions on Mobile Computing, 2007, 6, 1284-1296.	5.8	57
12	Cross-layer optimized multipath routing for video communications in wireless networks. IEEE Journal on Selected Areas in Communications, 2007, 25, 831-840.	14.0	54
13	Multicast Communications in Multi-Hop Cognitive Radio Networks. IEEE Journal on Selected Areas in Communications, 2011, 29, 784-793.	14.0	51
14	Bridging the Gap between Protocol and Physical Models for Wireless Networks. IEEE Transactions on Mobile Computing, 2013, 12, 1404-1416.	5.8	47
15	A Deep-Reinforcement-Learning-Based Approach to Dynamic eMBB/URLLC Multiplexing in 5G NR. IEEE Internet of Things Journal, 2020, 7, 6439-6456.	8.7	47
16	Efficient and Secure Outsourcing of Differentially Private Data Publishing With Multiple Evaluators. IEEE Transactions on Dependable and Secure Computing, 2022, 19, 67-76.	5.4	45
17	Network Coding in Cooperative Communications: Friend or Foe?. IEEE Transactions on Mobile Computing, 2012, 11, 1073-1085.	5.8	44
18	Multiple Description Video Multicast in Wireless Ad Hoc Networks. Mobile Networks and Applications, 2006, 11, 63-73.	3.3	43

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19	Squeezing the most out of interference: An optimization framework for joint interference exploitation and avoidance. , 2012, , .		43
20	A General Model for Minimizing Age of Information at Network Edge. , 2019, , .		42
21	Distributed Cross-Layer Optimization for Cognitive Radio Networks. IEEE Transactions on Vehicular Technology, 2010, 59, 4058-4069.	6.3	38
22	Some Fundamental Results on Base Station Movement Problem for Wireless Sensor Networks. IEEE/ACM Transactions on Networking, 2012, 20, 1054-1067.	3.8	38
23	Is Network Coding Always Good for Cooperative Communications?. , 2010, , .		34
24	Location Based Handshake and Private Proximity Test with Location Tags. IEEE Transactions on Dependable and Secure Computing, 2017, 14, 406-419.	5.4	34
25	Towards Efficient Fine-Grained Access Control and Trustworthy Data Processing for Remote Monitoring Services in IoT. IEEE Transactions on Information Forensics and Security, 2019, 14, 1830-1842.	6.9	34
26	A DoF-Based Link Layer Model for Multi-Hop MIMO Networks. IEEE Transactions on Mobile Computing, 2014, 13, 1395-1408.	5.8	25
27	Effective Capacity-Based Resource Allocation in Mobile Edge Computing With Two-Stage Tandem Queues. IEEE Transactions on Communications, 2019, 67, 6221-6233.	7.8	24
28	AoI Scheduling with Maximum Thresholds. , 2020, , .		24
29	Minimizing Age of Information Under General Models for IoT Data Collection. IEEE Transactions on Network Science and Engineering, 2020, 7, 2256-2270.	6.4	23
30	An optimal link layer model for multi-hop MIMO networks. , 2011, , .		22
31	A Tractable and Accurate Cross-Layer Model for Multi-Hop MIMO Networks. , 2010, , .		21
32	On the Asymptotic Capacity of Multi-Hop MIMO Ad Hoc Networks. IEEE Transactions on Wireless Communications, 2011, 10, 1032-1037.	9.2	21
33	CacheKit: Evading Memory Introspection Using Cache Incoherence. , 2016, , .		21
34	NPMML: A Framework for Non-interactive Privacy-preserving Multi-party Machine Learning. IEEE Transactions on Dependable and Secure Computing, 2020, , 1-1.	5.4	21
35	GPF. , 2018, , .		21
36	On joint routing and server selection for MD video streaming in ad hoc networks. IEEE Transactions on Wireless Communications, 2007, 6, 338-347.	9.2	20

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37	On the capacity of multiuser MIMO networks with interference. IEEE Transactions on Wireless Communications, 2008, 7, 488-494.	9.2	20
38	Kronos: A 5G Scheduler for AoI Minimization Under Dynamic Channel Conditions. , 2019, , .		20
39	An Analytical Model for Interference Alignment in Multi-Hop MIMO Networks. IEEE Transactions on Mobile Computing, 2016, 15, 17-31.	5.8	19
40	Decentralized Spectrum Access System: Vision, Challenges, and a Blockchain Solution. IEEE Wireless Communications, 2022, 29, 220-228.	9.0	18
41	Cross-Layer Optimization for Data Rate Utility Problem in UWB-based Ad Hoc Networks. IEEE Transactions on Mobile Computing, 2008, 7, 764-777.	5.8	17
42	On optimal throughput-energy curve for multi-hop wireless networks. , 2011, , .		17
43	Toward privacy-assured and searchable cloud data storage services. IEEE Network, 2013, 27, 56-62.	6.9	17
44	Joint User-AP Association and Resource Allocation in Multi-AP 60-GHz WLAN. IEEE Transactions on Vehicular Technology, 2019, 68, 5696-5710.	6.3	15
45	UPS: A United Cooperative Paradigm for Primary and Secondary Networks. , 2013, , .		14
46	Highly Efficient Known-Plaintext Attacks Against Orthogonal Blinding Based Physical Layer Security. IEEE Wireless Communications Letters, 2015, 4, 34-37.	5.0	14
47	Memory Forensic Challenges Under Misused Architectural Features. IEEE Transactions on Information Forensics and Security, 2018, 13, 2345-2358.	6.9	14
48	Game Theoretical Analysis on Encrypted Cloud Data Deduplication. IEEE Transactions on Industrial Informatics, 2019, 15, 5778-5789.	11.3	14
49	mCore: Achieving Sub-millisecond Scheduling for 5G MU-MIMO Systems. , 2021, , .		13
50	A Real-Time mmWave Communication Testbed with Phase Noise Cancellation. , 2019, , .		12
51	Conjugate Gradient Projection Approach for MIMO Gaussian Broadcast Channels. , 2007, , .		11
52	Challenges and New Directions in Securing Spectrum Access Systems. IEEE Internet of Things Journal, 2021, 8, 6498-6518.	8.7	11
53	Minimizing AoI in a 5G-Based IoT Network Under Varying Channel Conditions. IEEE Internet of Things Journal, 2021, 8, 14543-14558.	8.7	11
54	On Node Lifetime Problem for Energy-Constrained Wireless Sensor Networks. Mobile Networks and Applications, 2005, 10, 865-878.	3.3	10

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55	Optimal power allocation for achieving perfect secrecy capacity in MIMO wire-tap channels. , 2009, , .		10
56	Algorithm design for a class of base station location problems in sensor networks. Wireless Networks, 2009, 15, 21-38.	3.0	10
57	Joint Optimization of Session Grouping and Relay Node Selection for Network-Coded Cooperative Communications. IEEE Transactions on Mobile Computing, 2014, 13, 2028-2041.	5.8	10
58	Toward Transparent Coexistence for Multihop Secondary Cognitive Radio Networks. IEEE Journal on Selected Areas in Communications, 2015, 33, 958-971.	14.0	10
59	Turbo-HB: A Novel Design and Implementation to Achieve Ultra-Fast Hybrid Beamforming. , 2020, , .		10
60	Scheduling With Age of Information Guarantee. IEEE/ACM Transactions on Networking, 2022, 30, 2046-2059.	3.8	10
61	Ao²I: Minimizing Age of Outdated Information to Improve Freshness in Data Collection. , 2022, , .		10
62	On Capacity Scaling Law of Cognitive Radio Ad Hoc Networks. , 2011, , .		9
63	Throughput Maximization for Multi-Hop Wireless Networks with Network-Wide Energy Constraint. IEEE Transactions on Wireless Communications, 2013, 12, 1255-1267.	9.2	9
64	A Deep-Learning-based Link Adaptation Design for eMBB/URLLC Multiplexing in 5G NR. , 2021, , .		9
65	Cross-Layer Optimization of MIMO-Based Mesh Networks Under Orthogonal Channels. , 2007, , .		8
66	On interference alignment for multi-hop MIMO networks. , 2013, , .		8
67	Modeling the side-channel attacks in data deduplication with game theory. , 2015, , .		8
68	Beyond Overlay: Reaping Mutual Benefits for Primary and Secondary Networks Through Node-Level Cooperation. IEEE Transactions on Mobile Computing, 2017, 16, 2-15.	5.8	8
69	DELUXE: A DL-Based Link Adaptation for URLLC/eMBB Multiplexing in 5G NR. IEEE Journal on Selected Areas in Communications, 2022, 40, 143-162.	14.0	8
70	A cross-layer approach to multi-hop networking with cognitive radios. , 2008, , .		7
71	Interference alignment for multihop wireless networks: challenges and research directions. IEEE Network, 2016, 30, 74-80.	6.9	7
72	Cooperative Interference Neutralization in Multi-Hop Wireless Networks. IEEE Transactions on Communications, 2018, 66, 889-903.	7.8	7

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73	Achieving Fair LTE/Wi-Fi Coexistence with Real-Time Scheduling. IEEE Transactions on Cognitive Communications and Networking, 2020, 6, 366-380.	7.9	7
74	Now You See Me. , 2015, , .		6
75	GPU: A New Enabling Platform for Real-Time Optimization in Wireless Networks. IEEE Network, 2020, 34, 77-83.	6.9	6
76	MUSHI: Toward Multiple Level Security cloud with strong Hardware level Isolation. , 2012, , .		5
77	Network-coded cooperative communications with multiple relay nodes: Achievable rate and network optimization. Ad Hoc Networks, 2016, 53, 79-93.	5.5	5
78	On Throughput Region for Primary and Secondary Networks With Node-Level Cooperation. IEEE Journal on Selected Areas in Communications, 2016, 34, 2763-2775.	14.0	5
79	Exploiting edge capability for wireless sensor networking. IEEE Wireless Communications, 2008, 15, 67-73.	9.0	4
80	Bicriteria Optimization in Multihop Wireless Networks: Characterizing the Throughput-Energy Envelope. IEEE Transactions on Mobile Computing, 2013, 12, 1866-1878.	5.8	4
81	Optimal throughput curve for primary and secondary users with node-level cooperation. , 2015, , .		4
82	Optimal Channel Allocation in the CBRS Band with Shipborne Radar Incumbents. , 2021, , .		4
83	Editorial: Energy Constraints and Lifetime Performance in Wireless Sensor Networks. Mobile Networks and Applications, 2005, 10, 807-809.	3.3	3
84	Guest Editorial: Special Issue on Cognitive Radio Oriented Wireless Networks and Communications. Mobile Networks and Applications, 2008, 13, 411-415.	3.3	3
85	CURT: A Real-Time Scheduling Algorithm for Coexistence of LTE and Wi-Fi in Unlicensed Spectrum. , 2018, , .		3
86	GPF+: A Novel Ultrafast GPU-Based Proportional Fair Scheduler for 5G NR. IEEE/ACM Transactions on Networking, 2022, 30, 601-615.	3.8	3
87	A lifetime-aware single-session flow routing algorithm for energy-constrained wireless sensor networks. , 0, , .		2
88	On Multicast Throughput in Multihop MIMO Networks With Interference Alignment. IEEE Transactions on Vehicular Technology, 2018, 67, 6627-6641.	6.3	2
89	A General Method to Determine Asymptotic Capacity Upper Bounds for Wireless Networks. IEEE Transactions on Network Science and Engineering, 2019, 6, 2-15.	6.4	2
90	On DoF-Based Interference Cancellation Under General Channel Rank Conditions. IEEE/ACM Transactions on Networking, 2020, 28, 1002-1016.	3.8	2

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91	RAN Slicing in Multi-MVNO Environment Under Dynamic Channel Conditions. IEEE Internet of Things Journal, 2022, 9, 4748-4757.	8.7	2
92	Special Issue on Next Generation Wireless Technologies. Mobile Networks and Applications, 2007, 12, 1-3.	3.3	1
93	Modeling and optimization for programmable unified control plane in heterogeneous wireless networks. , 2016, , .		1
94	Spectrum attacks aimed at minimizing spectrum opportunities. , 2017, , .		1
95	Cost Minimization for Cooperative Traffic Relaying Between Primary and Secondary Networks. IEEE Transactions on Mobile Computing, 2018, 17, 2014-2027.	5.8	1
96	Guest Editorial Special Issue on Trust, Security, and Privacy in Crowdsourcing. IEEE Internet of Things Journal, 2018, 5, 2880-2883.	8.7	1
97	Maximize Spectrum Efficiency in Underlay Coexistence With Channel Uncertainty. IEEE/ACM Transactions on Networking, 2021, 29, 764-778.	3.8	1
98	On the performance of MIMO-based ad hoc networks under imperfect CSI. , 2008, , .		0
99	An Online Admission Control Algorithm for Dynamic Traffic in Underlay Coexistence Paradigm. IEEE Transactions on Cognitive Communications and Networking, 2016, 2, 411-426.	7.9	0
100	On DoF Conservation in MIMO Interference Cancellation Based on Signal Strength in the Eigenspace. IEEE Transactions on Mobile Computing, 2023, 22, 2862-2877.	5.8	0
101	Achieving Real-Time Spectrum Sharing in 5G Underlay Coexistence With Channel Uncertainty. IEEE Transactions on Mobile Computing, 2023, 22, 1922-1937.	5.8	0