Song Chong

List of Publications by Year
in descending order

88 papers	3,674 citations	304743 22 h-index	175258 52 g-index
89 all docs	89 docs citations	89 times ranked	3757 citing authors

#	Article	IF	Citations
1	On the Levy-Walk Nature of Human Mobility. IEEE/ACM Transactions on Networking, 2011, 19, 630-643.	3.8	817
2	Mobile Data Offloading: How Much Can WiFi Deliver?. IEEE/ACM Transactions on Networking, 2013, 21, 536-550.	3.8	544
3	DREAM: Dynamic Resource and Task Allocation for Energy Minimization in Mobile Cloud Systems. IEEE Journal on Selected Areas in Communications, 2015, 33, 2510-2523.	14.0	361
4	Dynamic association for load balancing and interference avoidance in multi-cell networks. IEEE Transactions on Wireless Communications, 2009, 8, 3566-3576.	9.2	270
5	REFIM: A Practical Interference Management in Heterogeneous Wireless Access Networks. IEEE Journal on Selected Areas in Communications, 2011, 29, 1260-1272.	14.0	166
6	Hybrid Content Caching in 5G Wireless Networks: Cloud Versus Edge Caching. IEEE Transactions on Wireless Communications, 2018, 17, 3030-3045.	9.2	117
7	Economics of WiFi Offloading: Trading Delay for Cellular Capacity. IEEE Transactions on Wireless Communications, 2014, 13, 1540-1554.	9.2	103
8	Max-Contribution: On Optimal Resource Allocation in Delay Tolerant Networks. , 2010, , .		86
9	Virtual Cell Beamforming in Cooperative Networks. IEEE Journal on Selected Areas in Communications, 2014, 32, 1126-1138.	14.0	84
10	Dual-Side Optimization for Cost-Delay Tradeoff in Mobile Edge Computing. IEEE Transactions on Vehicular Technology, 2018, 67, 1765-1781.	6.3	78
11	Research challenges towards the Future Internet. Computer Communications, 2011, 34, 2115-2134.	5.1	61
12	Dynamic Pricing, Scheduling, and Energy Management for Profit Maximization in PHEV Charging Stations. IEEE Transactions on Vehicular Technology, 2017, 66, 1011-1026.	6.3	59
13	Downlink resource allocation in multi-carrier systems: frequency-selective vs. equal power allocation. IEEE Transactions on Wireless Communications, 2008, 7, 3738-3747.	9.2	57
14	Opportunistic Underlay Transmission in Multi-Carrier Cognitive Radio Systems. , 2009, , .		45
15	Mobile Computation Offloading for Application Throughput Fairness and Energy Efficiency. IEEE Transactions on Wireless Communications, 2019, 18, 3-19.	9.2	43
16	Processor-Network Speed Scaling for Energy–Delay Tradeoff in Smartphone Applications. IEEE/ACM Transactions on Networking, 2016, 24, 1647-1660.	3.8	40
17	A Deep Reinforcement Learning Based D2D Relay Selection and Power Level Allocation in mmWave Vehicular Networks. IEEE Wireless Communications Letters, 2020, 9, 416-419.	5.0	40
18	Economics of WiFi offloading: Trading delay for cellular capacity. , 2013, , .		39

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19	Delay-Optimal Data Forwarding in Vehicular Sensor Networks. IEEE Transactions on Vehicular Technology, 2016, 65, 6389-6402.	6.3	32
20	A simple, scalable, and stable explicit rate allocation algorithm for max-min flow control with minimum rate guarantee. IEEE/ACM Transactions on Networking, 2001, 9, 322-335.	3.8	31
21	Greening Effect of Spatio-Temporal Power Sharing Policies in Cellular Networks with Energy Constraints. IEEE Transactions on Wireless Communications, 2012, 11, 4405-4415.	9.2	29
22	Dynamic speed scaling for energy minimization in delay-tolerant smartphone applications. , 2014, , .		29
23	Joint network-wide opportunistic scheduling and power control in multi-cell networks. IEEE Transactions on Wireless Communications, 2009, 8, 1520-1531.	9.2	27
24	Rate control algorithms for the ATM ABR service. European Transactions on Telecommunications, 1997, 8, 7-20.	1.2	26
25	Making 802.11 DCF Near-Optimal: Design, Implementation, and Evaluation. IEEE/ACM Transactions on Networking, 2016, 24, 1745-1758.	3.8	25
26	Traffic-Aware Energy-Saving Base Station Sleeping and Clustering in Cooperative Networks. IEEE Transactions on Wireless Communications, 2018, 17, 1173-1186.	9.2	25
27	Opportunistic Relaying in Cellular Network for Capacity and Fairness Improvement. , 2007, , .		24
28	Implementing utility-optimal CSMA. , 2009, , .		24
29	Dual-Resource TCP/AQM for Processing-Constrained Networks. IEEE/ACM Transactions on Networking, 2008, 16, 435-449.	3.8	23
30	Utility Max-Min Flow Control Using Slope-Restricted Utility Functions. IEEE Transactions on Communications, 2007, 55, 963-972.	7.8	20
31	Dual-side dynamic controls for cost minimization in mobile cloud computing systems. , 2015, , .		19
32	Utility-Optimal Multi-Pattern Reuse in Multi-Cell Networks. IEEE Transactions on Wireless Communications, 2011, 10, 142-153.	9.2	18
33	First-order rate-based flow control with dynamic queue threshold for high-speed wide-area ATM networks. Computer Networks, 1998, 29, 2201-2212.	1.0	17
34	Designing stable ABR flow control with rate feedback and open-loop control: first-order control case. Performance Evaluation, 1998, 34, 189-206.	1.2	15
35	Joint Network-wide Opportunistic Scheduling and Power Control in Multi-cell Networks. , 2007, , .		14
36	A Joint Design of Congestion Control and Burst Contention Resolution for Optical Burst Switching Networks. Journal of Lightwave Technology, 2009, 27, 3820-3830.	4.6	13

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37	Probabilistic burstiness-curve-based connection control for real-time multimedia services in ATM networks. IEEE Journal on Selected Areas in Communications, 1997, 15, 1072-1086.	14.0	12
38	Power allocation policies with full and partial inter-system channel state information for cognitive radio networks. Wireless Networks, 2013, 19, 99-113.	3.0	12
39	Wi-Fi sensing: Should mobiles sleep longer as they age?. , 2013, , .		12
40	Practicalizing Delay-Tolerant Mobile Apps with Cedos. , 2015, , .		12
41	Impact of spatio-temporal power sharing policies on cellular network greening. , 2011, , .		10
42	Learning to Schedule Network Resources Throughput and Delay Optimally Using Q^+-Learning. IEEE/ACM Transactions on Networking, 2021, 29, 750-763.	3.8	10
43	On the Critical Delays of Mobile Networks Under Lévy Walks and Lévy Flights. IEEE/ACM Transactions on Networking, 2013, 21, 1621-1635.	3.8	9
44	Beyond Max-weight Scheduling: A Reinforcement Learning-based Approach. , 2019, , .		9
45	Dynamic Control for On-Demand Interference-Managed WLAN Infrastructures. IEEE/ACM Transactions on Networking, 2020, 28, 84-97.	3.8	9
46	Two-Hop Opportunistic Scheduling in Cooperative Cellular Networks. IEEE Transactions on Vehicular Technology, 2012, 61, 4194-4199.	6.3	8
47	Dynamic bandwidth allocation schemes to improve utilization under nonuniform traffic in Ethernet passive optical networks. , 2004, , .		7
48	Resource-Efficient Mobile Multimedia Streaming With Adaptive Network Selection. IEEE Transactions on Multimedia, 2016, 18, 2517-2527.	7.2	7
49	Super-MAC Design for Tightly Coupled Multi-RAT Networks. IEEE Transactions on Communications, 2019, 67, 6939-6951.	7.8	7
50	Energy and Delay Guaranteed Joint Beam and User Scheduling Policy in 5G CoMP Networks. IEEE Transactions on Wireless Communications, 2022, 21, 2742-2756.	9.2	7
51	Combined packet scheduling and call admission control with minimum throughput guarantee in wireless networks. IEEE Transactions on Wireless Communications, 2007, 6, 3080-3089.	9.2	6
52	An Open Wireless Mesh Testbed Architecture with Data Collection and Software Distribution Platform. , 2007, , .		6
53	Multi-flow management for mobile data offloading. ICT Express, 2017, 3, 33-37.	4.8	6
54	Joint Congestion Control and Burst Contention Resolution in Optical Burst Switching Networks. , 2007, , .		5

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55	Improving TCP Performance over Optimal CSMA in Wireless Multi-Hop Networks. IEEE Communications Letters, 2012, 16, 1388-1391.	4.1	5
56	CarrierMix: How Much Can User-side Carrier Mixing Help?. IEEE Transactions on Mobile Computing, 2017, 16, 16-29.	5.8	5
57	Hybrid content caching for low end-to-end latency in cloud-based wireless networks. , 2017, , .		5
58	Proximity-Aware Location Based Collaborative Sensing for Energy-Efficient Mobile Devices. IEEE Transactions on Mobile Computing, 2019, 18, 417-430.	5.8	5
59	Exception Of Dominant Interfering Beam: Low Complex Beam Scheduling In Mmwave Networks. , 2020, , .		5
60	Stabilized Max-Min flow control using PID and PII 2 controllers. , 0, , .		4
61	Utility max-min flow control using slope-restricted utility functions. , 2005, , .		4
62	OPN05-6: Performance Enhancement in OBS Network with Flow Control and Edge Delay Method. IEEE Global Telecommunications Conference (GLOBECOM), 2006, , .	0.0	4
63	PhonePool: On energy-efficient mobile network collaboration with provider aggregation. , 2014, , .		4
64	TAES: Traffic-aware energy-saving base station sleeping and clustering in cooperative networks. , 2015, , .		4
65	Max Contribution: An Online Approximation of Optimal Resource Allocation in Delay Tolerant Networks. IEEE Transactions on Mobile Computing, 2015, 14, 592-605.	5.8	4
66	CSMA-Based Robust AP Throughput Guarantee Under User Distribution Uncertainty. IEEE/ACM Transactions on Networking, 2015, 23, 782-795.	3.8	4
67	TravelMiner: On the Benefit of Path-Based Mobility Prediction. , 2016, , .		4
68	Just-in-time WLANs: On-demand interference-managed WLAN infrastructures. , 2016, , .		4
69	Multi-flow rate control in delayed Wi-Fi offloading systems. , 2016, , .		4
70	Energy-Efficient Wi-Fi Sensing Policy Under Generalized Mobility Patterns With Aging. IEEE/ACM Transactions on Networking, 2016, 24, 2416-2428.	3.8	4
71	Control of multi-resource infrastructures: Application to NFV and computation offloading. , 2018, , .		4
72	Virtual Beamforming and User Scheduling for Sub-Array Architecture in mmWave Networks. IEEE Communications Letters, 2019, 23, 168-171.	4.1	4

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73	Dynamic Computation and Network Chaining in Integrated SDN/NFV Cloud Infrastructure. IEEE Transactions on Cloud Computing, 2023, 11, 367-382.	4.4	4
74	<title>First-order rate-based flow control with dynamic queue threshold for high-speed wide-area ATM networks</title>. Proceedings of SPIE, 1997, , .	0.8	3
75	Deterministic packet marking for max-min flow control. IEEE Communications Letters, 2005, 9, 856-858.	4.1	3
76	Adaptive multi-pattern reuse in multi-cell networks. , 2009, , .		3
77	Multi-Path Aggregate Flow Control for Real-Time Traffic Engineering. , 2008, , .		2
78	Detection of DDoS Traffic by Using the Technical Analysis Used in the Stock Market. , 2009, , .		2
79	A distributed utility max-min flow control algorithm. , 0, , .		1
80	Distributed max–min flow control for multi-rate overlay multicast. Computer Networks, 2010, 54, 1727-1738.	5.1	1
81	Impact of surrounding information on Wi-Fi sensing efficiency. , 2013, , .		1
82	Cedos: A Network Architecture and Programming Abstraction for Delay-Tolerant Mobile Apps. IEEE/ACM Transactions on Networking, 2017, 25, 646-661.	3.8	1
83	Energy-efficient beam scheduling for orthogonal random beamforming in cooperative networks. , 2017, , .		1
84	Designing stable ABR flow control with rate feedback and open-loop control: first-order control case. , 0, , .		0
85	Infrastructure support increases the capacity of ad hoc wireless networks. , 0, , .		0
86	Combined QoS Scheduling and Call Admission Control Algorithm in Cellular Networks. , 0, , .		0
87	Unknown Flow Detection with Imbalanced Traffic Data. , 2018, , .		0
88	Learning based Utility Maximization for Multi-Resource Management. , 2018, , .		0