You-Chiun Wang

List of Publications by Year
in descending order

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65 papers	1,755 citations	361413 20 h-index	289244 40 g-index
65 all docs	65 docs citations	65 times ranked	1381 citing authors

#	Article	IF	Citations
1	Efficient Placement and Dispatch of Sensors in a Wireless Sensor Network. IEEE Transactions on Mobile Computing, 2008, 7, 262-274.	5.8	179
2	Distributed Deployment Schemes for Mobile Wireless Sensor Networks to Ensure Multilevel Coverage. IEEE Transactions on Parallel and Distributed Systems, 2008, 19, 1280-1294.	5.6	164
3	iMouse: An Integrated Mobile Surveillance and Wireless Sensor System. Computer, 2007, 40, 60-66.	1.1	121
4	Efficient Resource Allocation and Power Control for LTE-A D2D Communication With Pure D2D Model. IEEE Transactions on Vehicular Technology, 2020, 69, 3202-3216.	6.3	91
5	Energy-Balanced Dispatch of Mobile Sensors in a Hybrid Wireless Sensor Network. IEEE Transactions on Parallel and Distributed Systems, 2010, 21, 1836-1850.	5.6	83
6	Mobility management algorithms and applications for mobile sensor networks. Wireless Communications and Mobile Computing, 2012, 12, 7-21.	1.2	80
7	Measuring air quality in city areas by vehicular wireless sensor networks. Journal of Systems and Software, 2011, 84, 2005-2012.	4.5	69
8	Efficient Data Gathering and Estimation for Metropolitan Air Quality Monitoring by Using Vehicular Sensor Networks. IEEE Transactions on Vehicular Technology, 2017, 66, 7234-7248.	6.3	64
9	Efficient Path Planning for a Mobile Sink to Reliably Gather Data from Sensors with Diverse Sensing Rates and Limited Buffers. IEEE Transactions on Mobile Computing, 2019, 18, 1527-1540.	5.8	62
10	An Efficient Route Management Framework for Load Balance and Overhead Reduction in SDN-Based Data Center Networks. IEEE Transactions on Network and Service Management, 2018, 15, 1422-1434.	4.9	61
11	Multiresolution Spatial and Temporal Coding in a Wireless Sensor Network for Long-Term Monitoring Applications. IEEE Transactions on Computers, 2009, 58, 827-838.	3.4	54
12	Efficient eNB deployment strategy for heterogeneous cells in 4G LTE systems. Computer Networks, 2015, 79, 297-312.	5.1	52
13	3S-cart: A Lightweight, Interactive Sensor-Based Cart for Smart Shopping in Supermarkets. IEEE Sensors Journal, 2016, 16, 6774-6781.	4.7	50
14	A Two-Phase Dispatch Heuristic to Schedule the Movement of Multi-Attribute Mobile Sensors in a Hybrid Wireless Sensor Network. IEEE Transactions on Mobile Computing, 2014, 13, 709-722.	5.8	43
15	Energyâ€efficient network selection with mobility pattern awareness in an integrated WiMAX and WiFi network. International Journal of Communication Systems, 2010, 23, 213-230.	2.5	42
16	Mobile Sensor Networks. ACM Computing Surveys, 2014, 47, 1-36.	23.0	36
17	Using Rotatable and Directional (R&D) Sensors to Achieve Temporal Coverage of Objects and Its Surveillance Application. IEEE Transactions on Mobile Computing, 2012, 11, 1358-1371.	5.8	35
18	Service-differentiated downlink flow scheduling to support QoS in long term evolution. Computer Networks, 2016, 94, 344-359.	5.1	31

#	Article	IF	Citations
19	Exploring Load-Balance to Dispatch Mobile Sensors in Wireless Sensor Networks. , 2007, , .		29
20	A Pricing-Aware Resource Scheduling Framework for LTE Networks. IEEE/ACM Transactions on Networking, 2017, 25, 1445-1458.	3.8	27
21	Exploiting Spectral Reuse in Routing, Resource Allocation, and Scheduling for IEEE 802.16 Mesh Networks. IEEE Transactions on Vehicular Technology, 2009, 58, 301-313.	6.3	23
22	A vehicular wireless sensor network for CO<inf>2</inf> monitoring. , 2009, , .		21
23	Efficient allocation of LTE downlink spectral resource to improve fairness and throughput. International Journal of Communication Systems, 2017, 30, e3287.	2.5	21
24	An Energy-Efficient Handover Scheme with Geographic Mobility Awareness in WiMAX-WiFi Integrated Networks. , 2009, , .		20
25	Smallâ€cell planning in LTE HetNet to improve energy efficiency. International Journal of Communication Systems, 2018, 31, e3492.	2.5	18
26	A jamming-based MAC protocol to improve the performance of wireless multihop ad-hoc networks. Wireless Communications and Mobile Computing, 2004, 4, 75-84.	1.2	16
27	A Cross-Layer Framework for Overhead Reduction, Traffic Scheduling, and Burst Allocation in IEEE 802.16 OFDMA Networks. IEEE Transactions on Vehicular Technology, 2011, 60, 1740-1755.	6.3	16
28	Energy-efficient uplink resource allocation for IEEE 802.16j transparent-relay networks. Computer Networks, 2011, 55, 3705-3720.	5.1	16
29	Minimum-cost deployment of adjustable readers to provide complete coverage of tags in RFID systems. Journal of Systems and Software, 2017, 134, 228-241.	4.5	16
30	A fair scheduling algorithm with traffic classification for wireless networks. Computer Communications, 2005, 28, 1225-1239.	5.1	15
31	Efficient and lowâ€cost defense against distributed denialâ€ofâ€service attacks in SDNâ€based networks. International Journal of Communication Systems, 2020, 33, e4461.	2.5	14
32	TSSM: Time-Sharing Switch Migration to Balance Loads of Distributed SDN Controllers. IEEE Transactions on Network and Service Management, 2022, 19, 1585-1597.	4.9	14
33	Compression and Storage Schemes in a Sensor Network with Spatial and Temporal Coding Techniques. IEEE Vehicular Technology Conference, 2008, , .	0.4	13
34	Lightweight, latencyâ€aware routing for data compression in wireless sensor networks with heterogeneous traffics. Wireless Communications and Mobile Computing, 2016, 16, 1035-1049.	1.2	13
35	EPS: Energy-Efficient Pricing and Resource Scheduling in LTE-A Heterogeneous Networks. IEEE Transactions on Vehicular Technology, 2018, 67, 8832-8845.	6.3	13
36	Deploying R&D sensors to monitor heterogeneous objects and accomplish temporal coverage. Pervasive and Mobile Computing, 2015, 21, 30-46.	3.3	12

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37	Using event detection latency to evaluate the coverage of a wireless sensor network. Computer Communications, 2007, 30, 2699-2707.	5.1	11
38	Credibility-Based Countermeasure Against Slow HTTP DoS Attacks by Using SDN. , 2021, , .		9
39	Delay-Aware ABS Adjustment to Support QoS for Real-Time Traffic in LTE-A HetNet. IEEE Wireless Communications Letters, 2017, 6, 590-593.	5.0	8
40	Efficient management of interference and power by jointly configuring ABS and DRX in LTE-A HetNets. Computer Networks, 2019, 150, 15-27.	5.1	8
41	Efficient Scheduling, Caching, and Merging of Notifications to Save Message Costs in IoT Networks Using CoAP. IEEE Internet of Things Journal, 2021, 8, 1016-1029.	8.7	8
42	A lightweight, selfâ€adaptive lock gate designation scheme for data collection in longâ€thin wireless sensor networks. Wireless Communications and Mobile Computing, 2013, 13, 47-62.	1.2	7
43	A request control scheme for data recovery in DVBâ€IPDC systems with spatial and temporal packet loss. Wireless Communications and Mobile Computing, 2013, 13, 935-950.	1.2	7
44	Efficient dispatch of mobile sensors in a WSN with wireless chargers. Pervasive and Mobile Computing, 2018, 51, 104-120.	3.3	7
45	A Low-cost, High-Efficiency SDN Framework to Diminish Redundant ARP and IGMP Traffics in Large-Scale LANs. , 2018, , .		5
46	Dynamic water gate assignment scheme for data aggregation in long-thin sensor networks. , 2010, , .		4
47	Efficient Packet Recovery Using Prioritized Network Coding in DVB-IPDC Systems. IEEE Communications Letters, 2012, 16, 382-385.	4.1	4
48	QoS-provisioning downlink resource management in 4G cellular systems. , 2015, , .		4
49	Adaptive configuration of time-domain eICIC to support multimedia communications in LTE-A heterogeneous networks. , 2017, , .		4
50	A load-aware small-cell management mechanism to support green communications in 5G networks. , 2018, , .		4
51	Efficient Load Rearrangement of Small Cells with D2D Relay for Energy Saving and QoS Support. , 2020, , .		4
52	Cooperative Flow Management in Multi-domain SDN-based Networks with Multiple Controllers. , 2020, , .		4
53	Joint Resource and Power Management for D2D Communication Across Multiple Service Providers. IEEE Systems Journal, 2022, 16, 3488-3499.	4.6	4
54	A Two-Phase Heuristic for Base Station Placement in Long Term Evolution (LTE) Networks with Cell Heterogeneity. , 2014, , .		3

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55	Efficient coordination of almost blank subframes with coupling macro cells in heterogeneous networks. International Journal of Communication Systems, 2020, 33, e4256.	2.5	3
56	Mobile Solutions to Air Quality Monitoring. EAI/Springer Innovations in Communication and Computing, 2019, , 225-249.	1.1	3
57	An Efficient Deployment Heuristic to Support Temporal Coverage of Heterogeneous Objects in Rotatable and Directional (R&D) Sensor Networks. , 2014, , .		2
58	Profitâ€based exclusiveâ€or coding algorithm for data retransmission in DVBâ€H with a recovery network. International Journal of Communication Systems, 2015, 28, 1580-1597.	2.5	2
59	Efficient token circulation strategies against misers in deviceâ€toâ€device relay using tokenâ€based incentive mechanisms. IET Communications, 2022, 16, 710-724.	2.2	2
60	An efficient fault tolerance path finding algorithm for improving the robustness of multichannel wireless mesh networks. , 2016, , .		1
61	Event-aware Hierarchical Routing with Differential Compression to Extend WSN Lifetime. , 2020, , .		1
62	Collaborative Route Management to Mitigate Congestion in Multi-Domain Networks Using SDN. , 2022, , .		1
63	Economy Aware Token-Based Incentive Strategy to Promote Device-to-Device (D2D) Relay Use in Mobile Networks. IEICE Transactions on Communications, 2022, E105.B, 1569-1579.	0.7	1
64	XOR coding scheme for data retransmissions with different benefits in DVB-IPDC networks. , 2013, , .		0
65	Efficient Schedule of Path and Charge for a Mobile Charger to Improve Survivability and Throughput of Sensors with Adaptive Sensing Rates. IEICE Transactions on Communications, 2022, E105.B, 1380-1389.	0.7	0