

Hsiaokuang Wu

List of Publications by Year in descending order

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69
papers

1,285
citations

430874

18
h-index

414414

32
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69
all docs

69
docs citations

69
times ranked

1498
citing authors

#	ARTICLE	IF	CITATIONS
1	Intelligent Fusion of Wi-Fi and Inertial Sensor-Based Positioning Systems for Indoor Pedestrian Navigation. IEEE Sensors Journal, 2014, 14, 4034-4042.	4.7	141
2	DuRT: Dual RSSI Trend Based Localization for Wireless Sensor Networks. IEEE Sensors Journal, 2013, 13, 3115-3123.	4.7	109
3	Binary-Partition-Assisted MAC-Layer Broadcast for Emergency Message Dissemination in VANETs. IEEE Transactions on Intelligent Transportation Systems, 2011, 12, 757-770.	8.0	87
4	Advantages and Constraints of a Hybrid Model K-12 E-Learning Assistant Chatbot. IEEE Access, 2020, 8, 77788-77801.	4.2	83
5	BAHG: Back-Bone-Assisted Hop Greedy Routing for VANET's City Environments. IEEE Transactions on Intelligent Transportation Systems, 2013, 14, 199-213.	8.0	82
6	Energy Cost Optimization in Dynamic Placement of Virtualized Network Function Chains. IEEE Transactions on Network and Service Management, 2018, 15, 372-386.	4.9	62
7	Agile Urban Parking Recommendation Service for Intelligent Vehicular Guiding System. IEEE Intelligent Transportation Systems Magazine, 2014, 6, 35-49.	3.8	46
8	Mobility Pattern Aware Routing for Heterogeneous Vehicular Networks. , 2008, , .		44
9	Homogeneous Features Utilization to Address the Device Heterogeneity Problem in Fingerprint Localization. IEEE Sensors Journal, 2014, 14, 998-1005.	4.7	40
10	Automated Segmentation and Quantification of White Matter Hyperintensities in Acute Ischemic Stroke Patients with Cerebral Infarction. PLoS ONE, 2014, 9, e104011.	2.5	34
11	Personal paging area design based on mobile's moving behaviors. , 0, , .		29
12	Maximum traffic scheduling and capacity analysis for IEEE 802.15.3 high data rate MAC protocol. , 2003, , .		28
13	The Budgeted Maximum Coverage Problem in Partially Deployed Software Defined Networks. IEEE Transactions on Network and Service Management, 2016, 13, 394-406.	4.9	28
14	A Reliable and Efficient MAC Layer Broadcast Protocol for Mobile <i>Ad Hoc </i> Networks. IEEE Transactions on Vehicular Technology, 2007, 56, 2296-2305.	6.3	24
15	Dynamic QoS Allocation for Multimedia Ad Hoc Wireless Networks. Mobile Networks and Applications, 2001, 6, 377-384.	3.3	23
16	Bandwidth-Constrained Routing Problem in Wireless Ad Hoc Networks. IEEE Transactions on Parallel and Distributed Systems, 2008, 19, 4-14.	5.6	22
17	Multirate Throughput Optimization With Fairness Constraints in Wireless Local Area Networks. IEEE Transactions on Vehicular Technology, 2009, 58, 2417-2425.	6.3	22
18	A Delay-Sensitive Multicast Protocol for Network Capacity Enhancement in Multirate MANETs. IEEE Systems Journal, 2018, 12, 926-937.	4.6	22

#	ARTICLE	IF	CITATIONS
19	An energy consumption analytic model for a wireless sensor MAC protocol. , 0, , .		21
20	An Intelligent Virtual-Reality System With Multi-Model Sensing for Cue-Elicited Craving in Patients With Methamphetamine Use Disorder. IEEE Transactions on Biomedical Engineering, 2021, 68, 2270-2280.	4.2	21
21	Bandwidth-Satisfied and Coding-Aware Multicast Protocol in MANETs. IEEE Transactions on Mobile Computing, 2018, 17, 1778-1790.	5.8	20
22	DDOR: Destination discovery oriented routing in highway/freeway VANETs+. Telecommunication Systems, 2012, 50, 267-284.	2.5	19
23	Bandwidth-Satisfied Multicast Trees in MANETs. IEEE Transactions on Mobile Computing, 2008, 7, 712-723.	5.8	18
24	A stability aware cluster routing protocol for mobile ad hoc networks. Wireless Communications and Mobile Computing, 2003, 3, 503-515.	1.2	17
25	Dynamic Adaptive Routing for a Heterogeneous Wireless Network. Mobile Networks and Applications, 2004, 9, 219-233.	3.3	17
26	Intelligent radio map management for future WLAN indoor location fingerprinting. , 2012, , .		17
27	Automatic Detection and Quantification of Acute Cerebral Infarct by Fuzzy Clustering and Histogrammic Characterization on Diffusion Weighted MR Imaging and Apparent Diffusion Coefficient Map. BioMed Research International, 2014, 2014, 1-13.	1.9	17
28	Bandwidth-Satisfied Multicast by Multiple Trees and Network Coding in Lossy MANETs. IEEE Systems Journal, 2017, 11, 1116-1127.	4.6	17
29	An Indoor Positioning Algorithm Based on Fingerprint and Mobility Prediction in RSS Fluctuation-Prone WLANs. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2021, 51, 2926-2936.	9.3	17
30	A Machine-Learning-Based Assessment Method for Early-Stage Neurocognitive Impairment by an Immersive Virtual Supermarket. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2021, 29, 2124-2132.	4.9	17
31	A Virtual-Reality System Integrated With Neuro-Behavior Sensing for Attention-Deficit/Hyperactivity Disorder Intelligent Assessment. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2020, 28, 1899-1907.	4.9	15
32	Distributed Topology Control for Energy-Efficient and Reliable Wireless Communications. IEEE Systems Journal, 2018, 12, 2152-2161.	4.6	10
33	A Decentralized CR System Algorithm for Cognitive Borrowing Scheme from Primary Users. , 2006, , .		9
34	A Transmission Power/Rate Control Scheme in CSMA/CA-Based Wireless Ad Hoc Networks. IEEE Transactions on Vehicular Technology, 2013, 62, 427-431.	6.3	8
35	Performance analysis of the enhanced distributed coordination function in the IEEE 802.11e. , 2003, , .		7
36	A new approach using time-based model for TCP-friendly rate estimation. , 0, , .		7

#	ARTICLE	IF	CITATIONS
37	An evolutionary approach to fixed channel assignment problems with limited bandwidth constraint. , 0, , .		6
38	Integrated Textbook: Augmenting Paper Textbooks with Digital Learning Support Using Digital Pens. , 0, , .		6
39	Efficient Articulation Point Collaborative Exploration for Reliable Communications in Wireless Sensor Networks. IEEE Sensors Journal, 2016, , 1-1.	4.7	6
40	Neuronal Abnormalities Induced by an Intelligent Virtual Reality System for Methamphetamine Use Disorder. IEEE Journal of Biomedical and Health Informatics, 2022, 26, 3458-3465.	6.3	6
41	Dynamic adaptive routing for heterogeneous wireless network. , 0, , .		5
42	A Novel RSS-Based Indoor Positioning Algorithm Using Mobility Prediction. , 2010, , .		5
43	Dynamic QoS allocation for multimedia ad hoc wireless networks. , 0, , .		4
44	Delay-Guaranteed Multicast Routing in Multi-Rate MANETs. , 2009, , .		4
45	From Spatial Reuse to Transmission Power Control for CSMA/CA Based Wireless Ad Hoc Networks. , 2011, , .		4
46	Minimizing Ceased Areas with Power Control for Spatial Reuse in IEEE 802.11 Ad Hoc Networks. , 2011, , .		4
47	A Self-Relevant CNN-SVM Model for Problem Classification in K-12 Question-Driven Learning. IEEE Access, 2020, 8, 225822-225830.	4.2	4
48	An intelligent handover scheme for the next generation personal communication systems. Journal of Communications and Networks, 2004, 6, 245-257.	2.6	3
49	Communication and Computing Cost Optimization of Meshed Hierarchical NFV Datacenters. IEEE Access, 2020, 8, 94795-94809.	4.2	3
50	Simultaneous Heterogeneous Sensor Localization, Joint Tracking, and Upper Extremity Modeling for Stroke Rehabilitation. IEEE Systems Journal, 2020, 14, 3570-3581.	4.6	3
51	Evaluating speech quality in large wireless networks: a case for hybrid simulation. , 0, , .		2
52	802.11-based positioning system for context aware applications. , 0, , .		2
53	Multi-rate throughput optimization for wireless local area network anomaly problem. , 0, , .		2
54	A Context Aware Interactive Robot Educational Platform. , 2008, , .		2

#	ARTICLE	IF	CITATIONS
55	A New e-Bus System Using Two-Way Government Radio Networks. IEEE Intelligent Transportation Systems Magazine, 2016, 8, 51-60.	3.8	2
56	CANavi: Synthesizing Cartoon-Like Animation for Street Navigation Based on Google Maps. IEEE Intelligent Transportation Systems Magazine, 2020, , 0-0.	3.8	2
57	TWO BANDWIDTH-VIOLATION PROBLEMS AND BANDWIDTH-SATISFIED MULTICAST TREES IN MANETS. , 2005, , .		2
58	Communications over two-way waveform channels in wireless networks. , 0, , .		2
59	Connection admission control for QoS guarantees in mobile networks. , 0, , .		1
60	The sharing session key component (SSKC) algorithm for end-to-end secure wireless communication. , 0, , .		1
61	Location query based on moving behavior. , 0, , .		1
62	Application layer multipoint conference using SIP. , 0, , .		1
63	Multiple Trees with Network Coding for Efficient and Reliable Multicast in MANETs. , 2010, , .		1
64	Early Intervention VR Sporting Games for Motor Skill Developmental Delay Children. , 2020, , .		1
65	A QoS-based hybrid multiple access transmission strategy in WCDMA downlink. , 0, , .		0
66	Pragmatic general multicast congestion control protocol for wireless networks. Wireless Communications and Mobile Computing, 2005, 5, 487-499.	1.2	0
67	ROBOKID: Let Children Construct Their Own Emotional Kids - Learning by Construction. , 2008, , .		0
68	Two Ranked Aware Phase Surveillance in Wireless Sensor Networks. , 2009, , .		0
69	A Context Aware Interactive Robot for Broadband Wireless Learning. , 2009, , .		0