Hsiaokuang Wu

List of Publications by Year
in descending order

69 papers	1,285 citations	430874 18 h-index	414414 32 g-index
69 all docs	69 docs citations	69 times ranked	1498 citing authors

#	Article	IF	Citations
1	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
2	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
3	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
4	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
5	A Self-Relevant CNN-SVM Model for Problem Classification in K-12 Question-Driven Learning. IEEE Access, 2020, 8, 225822-225830.	4.2	4
6	Advantages and Constraints of a Hybrid Model K-12 E-Learning Assistant Chatbot. IEEE Access, 2020, 8, 77788-77801.	4.2	83
7	Communication and Computing Cost Optimization of Meshed Hierarchical NFV Datacenters. IEEE Access, 2020, 8, 94795-94809.	4.2	3
8	Simultaneous Heterogeneous Sensor Localization, Joint Tracking, and Upper Extremity Modeling for Stroke Rehabilitation. IEEE Systems Journal, 2020, 14, 3570-3581.	4.6	3
9	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
10	CANavi: Synthesizing Cartoon-Like Animation for Street Navigation Based on Google Maps. IEEE Intelligent Transportation Systems Magazine, 2020, , 0-0.	3.8	2
11	Early Intervention VR Sporting Games for Motor Skill Developmental Delay Children. , 2020, , .		1
12	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
13	Bandwidth-Satisfied and Coding-Aware Multicast Protocol in MANETs. IEEE Transactions on Mobile Computing, 2018, 17, 1778-1790.	5.8	20
14	Distributed Topology Control for Energy-Efficient and Reliable Wireless Communications. IEEE Systems Journal, 2018, 12, 2152-2161.	4.6	10
15	A Delay-Sensitive Multicast Protocol for Network Capacity Enhancement in Multirate MANETs. IEEE Systems Journal, 2018, 12, 926-937.	4.6	22
16	Bandwidth-Satisfied Multicast by Multiple Trees and Network Coding in Lossy MANETs. IEEE Systems Journal, 2017, 11, 1116-1127.	4.6	17
17	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
18	Efﬁcient Articulation Point Collaborative Exploration for Reliable Communications in Wireless Sensor Networks. IEEE Sensors Journal, 2016, , 1-1.	4.7	6

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19	A New e-Bus System Using Two-Way Government Radio Networks. IEEE Intelligent Transportation Systems Magazine, 2016, 8, 51-60.	3.8	2
20	Automatic Detection and Quantification of Acute Cerebral Infarct by Fuzzy Clustering and Histographic Characterization on Diffusion Weighted MR Imaging and Apparent Diffusion Coefficient Map. BioMed Research International, 2014, 2014, 1-13.	1.9	17
21	Agile Urban Parking Recommendation Service for Intelligent Vehicular Guiding System. IEEE Intelligent Transportation Systems Magazine, 2014, 6, 35-49.	3.8	46
22	Homogeneous Features Utilization to Address the Device Heterogeneity Problem in Fingerprint Localization. IEEE Sensors Journal, 2014, 14, 998-1005.	4.7	40
23	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
24	Automated Segmentation and Quantification of White Matter Hyperintensities in Acute Ischemic Stroke Patients with Cerebral Infarction. PLoS ONE, 2014, 9, e104011.	2.5	34
25	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
26	DuRT: Dual RSSI Trend Based Localization for Wireless Sensor Networks. IEEE Sensors Journal, 2013, 13, 3115-3123.	4.7	109
27	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
28	DDOR: Destination discovery oriented routing inÂhighway/freeway VANETs+. Telecommunication Systems, 2012, 50, 267-284.	2.5	19
29	Intelligent radio map management for future WLAN indoor location fingerprinting. , 2012, , .		17
30	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
31	From Spatial Reuse to Transmission Power Control for CSMA/CA Based Wireless Ad Hoc Networks. , 2011, , .		4
32	Minimizing Ceased Areas with Power Control for Spatial Reuse in IEEE 802.11 Ad Hoc Networks. , 2011, , .		4
33	Multiple Trees with Network Coding for Efficient and Reliable Multicast in MANETs. , 2010, , .		1
34	A Novel RSS-Based Indoor Positioning Algorithm Using Mobility Prediction. , 2010, , .		5
35	Two Ranked Aware Phase Surveillance in Wireless Sensor Networks. , 2009, , .		0
36	Multirate Throughput Optimization With Fairness Constraints in Wireless Local Area Networks. IEEE Transactions on Vehicular Technology, 2009, 58, 2417-2425.	6.3	22

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37	Delay-Guaranteed Multicast Routing in Multi-Rate MANETs. , 2009, , .		4
38	A Context Aware Interactive Robot for Broadband Wireless Learning. , 2009, , .		0
39	ROBOKID: Let Children Construct Their Own Emotional Kids - Learning by Construction. , 2008, , .		0
40	Bandwidth-Constrained Routing Problem in Wireless Ad Hoc Networks. IEEE Transactions on Parallel and Distributed Systems, 2008, 19, 4-14.	5.6	22
41	A Context Aware Interactive Robot Educational Platform. , 2008, , .		2
42	Bandwidth-Satisfied Multicast Trees in MANETs. IEEE Transactions on Mobile Computing, 2008, 7, 712-723.	5.8	18
43	Mobility Pattern Aware Routing for Heterogeneous Vehicular Networks. , 2008, , .		44
44	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
45	A Decentralized CR System Algorithm for Cognitive Borrowing Scheme from Primary Users. , 2006, , .		9
46	Pragmatic general multicast congestion control protocol for wireless networks. Wireless Communications and Mobile Computing, 2005, 5, 487-499.	1.2	0
47	TWO BANDWIDTH-VIOLATION PROBLEMS AND BANDWIDTH-SATISFIED MULTICAST TREES IN MANETS. , 2005, , .		2
48	Dynamic Adaptive Routing for a Heterogeneous Wireless Network. Mobile Networks and Applications, 2004, 9, 219-233.	3.3	17
49	An intelligent handover scheme for the next generation personal communication systems. Journal of Communications and Networks, 2004, 6, 245-257.	2.6	3
50	A stability aware cluster routing protocol for mobile ad hoc networks. Wireless Communications and Mobile Computing, 2003, 3, 503-515.	1.2	17
51	Performance analysis of the enhanced distributed coordination function in the IEEE 802.11e. , 2003, , .		7
52	Maximum traffic scheduling and capacity analysis for IEEE 802.15.3 high data rate MAC protocol. , 2003, , .		28
53	Dynamic QoS Allocation for Multimedia Ad Hoc Wireless Networks. Mobile Networks and Applications, 2001, 6, 377-384.	3.3	23
54	Evaluating speech quality in large wireless networks: a case for hybrid simulation. , 0, , .		2

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55	Connection admission control for QoS guarantees in mobile networks. , 0, , .		1
56	Dynamic QoS allocation for multimedia ad hoc wireless networks. , 0, , .		4
57	The sharing session key component (SSKC) algorithm for end-to-end secure wireless communication. , 0, , .		1
58	Personal paging area design based on mobile's moving behaviors. , 0, , .		29
59	An evolutionary approach to fixed channel assignment problems with limited bandwidth constraint. , 0, , .		6
60	Dynamic adaptive routing for heterogeneous wireless network. , 0, , .		5
61	Location query based on moving behavior. , 0, , .		1
62	A QoS-based hybrid multiple access transmission strategy in WCDMA downlink. , 0, , .		0
63	A new approach using time-based model for TCP-friendly rate estimation. , 0, , .		7
64	802.11-based positioning system for context aware applications. , 0, , .		2
65	Application layer multipoint conference using SIP. , 0, , .		1
66	An energy consumption analytic model for a wireless sensor MAC protocol. , 0, , .		21
67	Multi-rate throughput optimization for wireless local area network anomaly problem. , 0, , .		2
68	Integrated Textbook: Augmenting Paper Textbooks with Digital Learning Support Using Digital Pens. , 0, , .		6
69	Communications over two-way waveform channels in wireless networks. , 0, , .		2