

Ren-Hung Hwang

List of Publications by Year in descending order

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167
papers

1,810
citations

471371

17
h-index

360920

35
g-index

168
all docs

168
docs citations

168
times ranked

1474
citing authors

#	ARTICLE	IF	CITATIONS
1	Dual Pricing Optimization for Live Video Streaming in Mobile Edge Computing With Joint User Association and Resource Management. IEEE Transactions on Mobile Computing, 2023, 22, 858-873.	3.9	7
2	Controllable Path Planning and Traffic Scheduling for Emergency Services in the Internet of Vehicles. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 12399-12413.	4.7	16
3	Pricing-Based Deep Reinforcement Learning for Live Video Streaming With Joint User Association and Resource Management in Mobile Edge Computing. IEEE Transactions on Wireless Communications, 2022, 21, 4310-4324.	6.1	3
4	Blockchain-Based Privacy-Preserving and Sustainable Data Query Service Over 5G-VANETs. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 15909-15921.	4.7	19
5	Machine Learning With Variational AutoEncoder for Imbalanced Datasets in Intrusion Detection. IEEE Access, 2022, 10, 15247-15260.	2.6	11
6	Persistent Periodic Uplink Scheduling Algorithm for Massive NB-IoT Devices. Sensors, 2022, 22, 2875.	2.1	3
7	Security and Privacy for 6G: A Survey on Prospective Technologies and Challenges. IEEE Communications Surveys and Tutorials, 2021, 23, 2384-2428.	24.8	140
8	Screw Slot Quality Inspection System Based on Tactile Network. ACM Transactions on Internet Technology, 2021, 21, 1-17.	3.0	0
9	CREME: A toolchain of automatic dataset collection for machine learning in intrusion detection. Journal of Network and Computer Applications, 2021, 193, 103212.	5.8	6
10	Offloading Optimization with Delay Constraint in the 3-tier Federated Cloud, Edge, and Fog Systems. , 2021, , .		1
11	Optimizing Social Welfare of Live Video Streaming Services in Mobile Edge Computing. IEEE Transactions on Mobile Computing, 2020, 19, 922-934.	3.9	38
12	Deep Reinforcement Learning for MEC Streaming with Joint User Association and Resource Management. , 2020, , .		12
13	Live MPEG-DASH video streaming cache management with cognitive mobile edge computing. Journal of Ambient Intelligence and Humanized Computing, 2020, , 1.	3.3	2
14	Optimizing Live Layered Video Multicasting Over LTE With Mobile Edge Computing. IEEE Transactions on Vehicular Technology, 2020, 69, 12072-12084.	3.9	5
15	A Beamforming Signal-Based Verification Scheme for Data Sharing in 5G Vehicular Networks. IEEE Access, 2020, 8, 211723-211737.	2.6	3
16	Live Video Streaming with Joint User Association and Caching Placement in Mobile Edge Computing. , 2020, , .		11
17	An Unsupervised Deep Learning Model for Early Network Traffic Anomaly Detection. IEEE Access, 2020, 8, 30387-30399.	2.6	117
18	Enhancing Misbehavior Detection in 5G Vehicle-to-Vehicle Communications. IEEE Transactions on Vehicular Technology, 2020, 69, 9417-9430.	3.9	31

#	ARTICLE	IF	CITATIONS
19	Communication and Computation Offloading for 5G V2X: Modeling and Optimization. , 2020, , .		6
20	Modeling and Minimizing Latency in Three-tier V2X Networks. , 2020, , .		11
21	Resource Management in LADNs Supporting 5G V2X Communications. , 2020, , .		3
22	Physiological signals anticipatory computing for individual emotional state and creativity thinking. Computers in Human Behavior, 2019, 101, 450-456.	5.1	13
23	Multi-Array Relative Positioning for Verifying the Truthfulness of V2X Messages. IEEE Communications Letters, 2019, 23, 1704-1707.	2.5	7
24	QoS-Guaranteed Radio Resource Management in LTE-A Co-Channel Networks with Dual Connectivity. Applied Sciences (Switzerland), 2019, 9, 3018.	1.3	5
25	An LSTM-Based Deep Learning Approach for Classifying Malicious Traffic at the Packet Level. Applied Sciences (Switzerland), 2019, 9, 3414.	1.3	86
26	Energy Depletion Attacks in Low Power Wireless Networks. IEEE Access, 2019, 7, 51915-51932.	2.6	49
27	Improving Learning Achievement in Science Education for Elementary School Students via Blended Learning. International Journal of Online Pedagogy and Course Design, 2019, 9, 44-62.	0.3	4
28	Detecting IoT Malicious Traffic Based on Autoencoder and Convolutional Neural Network. , 2019, , .		11
29	Physical signal-driven fusion for V2X misbehavior detection. , 2019, , .		6
30	Cooperative Adaptive Driving for Platooning Autonomous Self Driving Based on Edge Computing. International Journal of Applied Mathematics and Computer Science, 2019, 29, 213-225.	1.5	5
31	MECPASS: Distributed Denial of Service Defense Architecture for Mobile Networks. IEEE Network, 2018, 32, 118-124.	4.9	15
32	A Resilient Power Fingerprinting Selection Mechanism of Device Load Recognition for Trusted Industrial Internet of Things. IEEE Transactions on Industrial Informatics, 2018, 14, 3581-3589.	7.2	3
33	A Survey and Implementation on Neural Network Visualization. , 2018, , .		0
34	StateFit: A Security Framework for SDN Programmable Data Plane Model. , 2018, , .		3
35	Applying Classification to Rainfall Nowcasting with Topographical Awareness. , 2018, , .		0
36	Toward Optimal Resource Allocation of Virtualized Network Functions for Hierarchical Datacenters. IEEE Transactions on Network and Service Management, 2018, 15, 1532-1544.	3.2	16

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37	Building a Taiwan Law Ontology Based on Automatic Legal Definition Extraction. Applied System Innovation, 2018, 1, 22.	2.7	4
38	Combinatorial clock auction for live video streaming in mobile edge computing. , 2018, , .		15
39	A Distributed Scheduling Algorithm for IEEE 802.15.4e Wireless Sensor Networks. Computer Standards and Interfaces, 2017, 52, 63-70.	3.8	24
40	An Intelligent Body Posture Analysis Model Using Multi-Sensors for Long-Term Physical Rehabilitation. Journal of Medical Systems, 2017, 41, 71.	2.2	4
41	Detecting and Preventing DDoS Attacks in SDN-Based Data Center Networks. Lecture Notes in Computer Science, 2017, , 50-61.	1.0	4
42	A QoS Aware Resource Allocation Strategy for Mobile Graphics Rendering With Cloud Support. IEEE Transactions on Circuits and Systems for Video Technology, 2017, 27, 110-124.	5.6	3
43	Novel QoS guaranteed cell selection schemes in LTE-A heterogeneous networks. , 2017, , .		2
44	Inference of Learning Creative Characteristics by Analysis of EEG Signal. Lecture Notes in Computer Science, 2017, , 425-432.	1.0	2
45	Analysis of Influential Factors in Secondary PM2.5 by K-Medoids and Correlation Coefficient. , 2017, , .		1
46	Using ANN to Analyze the Correlation Between Tourism-Related Hot Words and Tourist Numbers: A Case Study in Japan. , 2017, , .		1
47	A Comprehensive Real-Time Traffic Map for Geographic Routing in VANETs. Applied Sciences (Switzerland), 2017, 7, 129.	1.3	8
48	Innovative Project-Based Learning. Lecture Notes in Computer Science, 2017, , 189-194.	1.0	2
49	Satisfaction Analysis for Agricultural Worker Digital Course Learning Platform. Lecture Notes in Computer Science, 2017, , 9-18.	1.0	0
50	Load Balancing and Routing Mechanism Based on Software Defined Network in Data Centers. , 2016, , .		5
51	Fast Failover Mechanism for SDN-Enabled Data Centers. , 2016, , .		8
52	A Scalable Integrated SDN and OpenStack Management System. , 2016, , .		3
53	A QoS-aware streaming service over fog computing infrastructures. , 2016, , .		13
54	SocialHide: A generic distributed framework for location privacy protection. Journal of Network and Computer Applications, 2016, 76, 87-100.	5.8	11

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55	Uplink access control for machine-type communications in LTE-A networks. Personal and Ubiquitous Computing, 2016, 20, 851-862.	1.9	8
56	Design of SDN-Enabled Cloud Data Center. , 2015, , .		4
57	Optimal Sink Placement in M2M over LTE Networks. , 2015, , .		0
58	A Distributed Scheduling Algorithm for IEEE 802.15.4e Networks. , 2015, , .		6
59	Context-aware multimedia broadcast and multicast service area planning in 4G networks. Computer Communications, 2015, 64, 33-43.	3.1	5
60	A buffer-aware HTTP live streaming approach for SDN-enabled 5G wireless networks. IEEE Network, 2015, 29, 49-55.	4.9	42
61	An effective taxi recommender system based on a spatio-temporal factor analysis model. Information Sciences, 2015, 314, 28-40.	4.0	63
62	An Adaptive Sensor Data Segments Selection Method for Wearable Health Care Services. Journal of Medical Systems, 2015, 39, 194.	2.2	8
63	Integration of Spatial Reuse and Allocation for Downlink Broadcast in LTE-Advanced and WiMAX Relay Networks. IEEE Transactions on Vehicular Technology, 2015, 64, 5246-5256.	3.9	2
64	OPTIMAL RESOURCE ALLOCATION FOR LAYERED VIDEO MULTICASTING IN WIMAX. Journal of Computer Science, 2014, 10, 2429-2441.	0.5	0
65	Open source for networking: Tools and applications [Guest Editorial]. IEEE Network, 2014, 28, 4-5.	4.9	1
66	A Dynamic Power Features Selection Method for Multi-appliance Recognition on Cloud-Based Smart Grid. , 2014, , .		1
67	An energy-saving algorithm for cloud resource management using a Kalman filter. International Journal of Communication Systems, 2014, 27, 4078-4091.	1.6	6
68	Routine Based User Classification. , 2014, , .		0
69	Analysis of Swarm Behavior of Users' GPS Data Based on Boids Model. , 2014, , .		0
70	A self-similar super-peer overlay construction scheme for super large-scale P2P applications. Information Systems Frontiers, 2014, 16, 45-58.	4.1	10
71	An effective taxi recommender system based on a spatiotemporal factor analysis model. , 2014, , .		0
72	SocialCloaking: A distributed architecture for K-anonymity location privacy protection. , 2014, , .		6

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73	Downlink resource allocation with cooperative transmission in EPON-WiMAX integrated network. , 2014, , .		1
74	A Novel Time-Obfuscated Algorithm for Trajectory Privacy Protection. IEEE Transactions on Services Computing, 2014, 7, 126-139.	3.2	110
75	Guest Editorial: Open Source for Networking: Protocol Stacks. IEEE Network, 2014, 28, 2-5.	4.9	1
76	Cost Optimization of Elasticity Cloud Resource Subscription Policy. IEEE Transactions on Services Computing, 2014, 7, 561-574.	3.2	33
77	A novel efficient power-saving MAC protocol for multi-hop MANETs. International Journal of Communication Systems, 2013, 26, 34-55.	1.6	16
78	A reliability enhancement design under the flash translation layer for MLC-based flash-memory storage systems. Transactions on Embedded Computing Systems, 2013, 13, 1-28.	2.1	17
79	Load balancing with cell breathing to maximize the system reward in mobile WiMAX. , 2013, , .		0
80	ENERGY EFFICIENCY POWER CONTROL OF CELL BREATHING IN EPON-WIMAX HYBRID ACCESS NETWORK. Journal of Interconnection Networks, 2012, 13, 1250012.	0.6	0
81	Optimal bandwidth adaptation for layered video multicasting in IEEE 802.11 WLANs. , 2012, , .		0
82	Peer-to-Peer Video-On-Demand service in NUWeb. International Journal of Ad Hoc and Ubiquitous Computing, 2012, 9, 1.	0.3	4
83	Communication framework for vehicle ad hoc network on freeways. Telecommunication Systems, 2012, 50, 243-256.	1.6	7
84	Downlink Scheduling and Resource Allocation in EPON-WiMAX Integrated Networks. , 2012, , .		4
85	Optimization of cloud resource subscription policy. , 2012, , .		4
86	Development and evaluation of a Web 2.0 annotation system as a learning tool in an e-learning environment. Computers and Education, 2012, 58, 1094-1105.	5.1	69
87	Downlink packet scheduling and resource allocation in EPON WiMAX hybrid access networks. Eurasip Journal on Wireless Communications and Networking, 2012, 2012, .	1.5	1
88	A Novel Time-Obfuscated Algorithm for Trajectory Privacy. , 2012, , .		2
89	Load Balancing with Cell Breathing in EPON-WiMAX Integrated Network. , 2012, , .		0
90	Adaptive load balancing association handoff approach for increasing utilization and improving GoS in mobile WiMAX networks. Wireless Communications and Mobile Computing, 2012, 12, 1251-1265.	0.8	2

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91	Energy efficient predictive AMC with adaptive SNR-based power allocation in MIMO radio networks. , 2011, , .		1
92	SSNG: A Self-Similar Super-Peer Overlay Construction Scheme for Super Large-Scale P2P Systems. , 2011, , .		1
93	Mobility management in ubiquitous environments. Personal and Ubiquitous Computing, 2011, 15, 235-251.	1.9	9
94	Cross-layer design vehicle-aided handover scheme in VANETs. Wireless Communications and Mobile Computing, 2011, 11, 916-928.	0.8	34
95	Seamless session mobility scheme in heterogeneous wireless networks. International Journal of Communication Systems, 2011, 24, 789-809.	1.6	37
96	UbiPaPaGo: Context-aware path planning. Expert Systems With Applications, 2011, 38, 4150-4161.	4.4	9
97	Optimal Key Generation Policies for MANET Security. , 2010, , .		2
98	Editorial: WiMAX integrated communications. IET Communications, 2010, 4, 1037.	1.5	2
99	Context-Awareness Handoff Planning in Heterogeneous Wireless Networks. Lecture Notes in Computer Science, 2010, , 430-444.	1.0	9
100	MDP-Based CAC for Two-Dimension Spreading VSF-OFCDM in 4G Cellular Communications. , 2009, , .		0
101	Cross-layer design of P2P file sharing over mobile ad hoc networks. Telecommunication Systems, 2009, 42, 47-61.	1.6	15
102	Swarm intelligence-based anycast routing protocol in ubiquitous networks. Wireless Communications and Mobile Computing, 2009, 10, n/a-n/a.	0.8	0
103	Discovering timely information in MANETs. Computers and Mathematics With Applications, 2009, 57, 1808-1821.	1.4	2
104	UbiPhone: Human-Centered Ubiquitous Phone System. IEEE Pervasive Computing, 2009, 8, 40-47.	1.1	11
105	An Open Framework for Distributed Context Management in Ubiquitous Environment. , 2009, , .		3
106	Peer-to-Peer Video-on-Demand Service in NuWeb. , 2009, , .		0
107	Solutions to Multihoming in IPv6 Based on MIPv6 and NEMO. , 2009, , .		3
108	Context-awareness Handoff Planning in Ubiquitous Network. , 2009, , .		5

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109	Context-Aware Path Planning in Ubiquitous Network. Lecture Notes in Computer Science, 2009, , 54-67.	1.0	5
110	Automatic and structure-preserved ontology mapping based on exponential random graph model. , 2008, , .		0
111	Ubiquitous Phone System. Lecture Notes in Computer Science, 2008, , 201-215.	1.0	1
112	A scalable overlay framework for internet anycasting service. , 2007, , .		3
113	SmSCTP: SIP-Based MSCTP Scheme for Session Mobility over WLAN/3G Heterogeneous Networks. , 2007, , .		13
114	P2P File Sharing System over MANET based on Swarm Intelligence: A Cross-Layer Design. , 2007, , .		31
115	A location-aware peer-to-peer overlay network. International Journal of Communication Systems, 2007, 20, 83-102.	1.6	6
116	SSIP: Split a SIP session over multiple devices. Computer Standards and Interfaces, 2007, 29, 531-545.	3.8	28
117	Querying time indexed information in mobile Ad hoc networks. Ad Hoc Networks, 2007, 5, 1090-1112.	3.4	3
118	Efficient OVFS code assignment and reassignment strategies in UMTS. IEEE Transactions on Mobile Computing, 2006, 5, 769-783.	3.9	12
119	Modeling and analyzing the performance of adaptive hierarchical networks. Information Sciences, 2006, 176, 522-549.	4.0	7
120	SIP-based MIP6-MANET: Design and implementation of mobile IPv6 and SIP-based mobile ad hoc networks*,â€€. Computer Communications, 2006, 29, 1226-1240.	3.1	4
121	Efficient OVFS code assignment and reassignment strategies in UMTS. Computer Communications, 2006, 29, 1538-1551.	3.1	2
122	An Efficient Adaptive Grouping for Single Code Assignment in WCDMA Mobile Networks. Wireless Personal Communications, 2006, 39, 41-61.	1.8	11
123	P2pbroadcast: a hierarchical clustering live video streaming system for P2P networks. International Journal of Communication Systems, 2006, 19, 619-637.	1.6	8
124	Fair and efficient packet scheduling algorithms for multiple classes of service under QoS guarantee in UMTS. Computer Communications, 2005, 28, 379-392.	3.1	1
125	Fair and efficient scheduling for UMTS forward link. International Journal of Communication Systems, 2005, 18, 409-426.	1.6	3
126	Markov-Based OVFS Code Assignment Scheme and Call Admission Control for Wideband-CDMA Communication Systems. Wireless Personal Communications, 2005, 34, 373-394.	1.8	3

#	ARTICLE	IF	CITATIONS
127	Mobile IPv6-based ad hoc networks: its development and application. IEEE Journal on Selected Areas in Communications, 2005, 23, 2161-2171.	9.7	14
128	Performance Analysis for Hierarchical Multirate Loss Networks. IEEE/ACM Transactions on Networking, 2004, 12, 187-199.	2.6	20
129	Adaptive crankback schemes for hierarchical QoS routing in ATM networks. Computer Communications, 2002, 25, 534-543.	3.1	1
130	RPIM-SM: extending PIM-SM for RP relocation. Computer Communications, 2002, 25, 1774-1781.	3.1	2
131	Efficient hierarchical QoS routing in ATM networks. Computer Communications, 2001, 24, 1648-1660.	3.1	17
132	Fast optimal video placement algorithms for hierarchical video-on-demand systems. IEEE Transactions on Broadcasting, 2001, 47, 357-366.	2.5	7
133	PROMS: a PRO-active Monitoring System for SS7 networks. International Journal of Network Management, 2000, 10, 17-27.	1.4	0
134	Multicast routing with multiple QoS constraints in ATM networks. Information Sciences, 2000, 124, 29-57.	4.0	35
135	MDP routing for multi-rate loss networks. Computer Networks, 2000, 34, 241-261.	3.2	29
136	Adaptive multicast routing in multirate loss networks. Telecommunication Systems, 1999, 12, 283-313.	1.6	0
137	Optimal video placement for hierarchical video-on-demand systems. IEEE Transactions on Broadcasting, 1998, 44, 392-401.	2.5	8
138	<title>Adaptive multicast routing in broadband networks</title>. , 1998, , .		8
139	On-call processing delay in high speed networks. IEEE/ACM Transactions on Networking, 1995, 3, 628-639.	2.6	19
140	Fast video placement algorithms for hierarchical VOD systems. , 0, , .		1
141	MDP routing in ATM networks using virtual path concept. , 0, , .		47
142	LLR routing in homogeneous VP-based ATM networks. , 0, , .		19
143	Adaptive multicast routing in single rate loss networks. , 0, , .		16
144	QoS allocation of multicast connections in ATM. , 0, , .		0

#	ARTICLE	IF	CITATIONS
145	Scheduling policies for an VOD system over CATV networks. , 0, , .		0
146	On LLR routing in circuit-switched networks. , 0, , .		0
147	Adaptive multicast routing in ATM networks. , 0, , .		1
148	Optimal video placement for hierarchical video-on-demand systems. , 0, , .		1
149	Hierarchical QoS routing in ATM networks based on MDP cost function. , 0, , .		5
150	Routing in ATM networks with multiple classes of QoS. , 0, , .		2
151	Dynamic update of aggregated routing information for hierarchical QoS routing in ATM networks. , 0, , .		2
152	MDP-based dynamic update of aggregated information for hierarchical QoS routing. , 0, , .		2
153	Reducing crankback overhead in hierarchical routing in ATM networks. , 0, , .		0
154	Multipath QoS routing with bandwidth guarantee. , 0, , .		5
155	Multicast provision in a differentiated services network. , 0, , .		3
156	Reduced load approximation analysis for fixed hierarchical routing. , 0, , .		3
157	Performance evaluation model for adaptive hierarchical loss networks. , 0, , .		2
158	A multicast framework for multimedia applications. , 0, , .		0
159	Fairness in QoS guaranteed networks. , 0, , .		8
160	A P2P hierarchical clustering live video streaming system. , 0, , .		4
161	Chinese document image retrieval system based on proportion of black pixel area in a character image. , 0, , .		6
162	Efficient OVSF codes assignment strategy and management architecture in wideband CDMA. , 0, , .		2

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163	MDP-based OVSF code assignment scheme and call admission control for wideband-CDMA communications. , 0, , .		2
164	A location-aware P2P information sharing system in Bluetooth-based mobile ad hoc network. , 0, , .		2
165	p-MANET: Efficient Power Saving Protocol for Multi-Hop Mobile Ad Hoc Networks. , 0, , .		4
166	Global Connectivity for Mobile IPv6-Based Ad Hoc Networks. , 0, , .		7
167	QoS routing algorithms for multiple traffic classes. , 0, , .		7