Chi Harold Liu

List of Publications by Year
in descending order

115 papers	4,929 citations	172457 29 h-index	102487 66 g-index
116 all docs	116 docs citations	116 times ranked	5000 citing authors

#	Article	IF	Citations
1	A Survey on Internet of Things From Industrial Market Perspective. IEEE Access, 2014, 2, 1660-1679.	4.2	475
2	Energy-Efficient UAV Control for Effective and Fair Communication Coverage: A Deep Reinforcement Learning Approach. IEEE Journal on Selected Areas in Communications, 2018, 36, 2059-2070.	14.0	393
3	The Emerging Internet of Things Marketplace From an Industrial Perspective: A Survey. IEEE Transactions on Emerging Topics in Computing, 2015, 3, 585-598.	4.6	392
4	Mobile Cloud Computing: A Survey, State of Art and Future Directions. Mobile Networks and Applications, 2014, 19, 133-143.	3.3	315
5	Blockchain-Enabled Data Collection and Sharing for Industrial IoT With Deep Reinforcement Learning. IEEE Transactions on Industrial Informatics, 2019, 15, 3516-3526.	11.3	238
6	QoI-Aware Multitask-Oriented Dynamic Participant Selection With Budget Constraints. IEEE Transactions on Vehicular Technology, 2014, 63, 4618-4632.	6.3	173
7	Sensor Search Techniques for Sensing as a Service Architecture for the Internet of Things. IEEE Sensors Journal, 2014, 14, 406-420.	4.7	165
8	Distributed Energy-Efficient Multi-UAV Navigation for Long-Term Communication Coverage by Deep Reinforcement Learning. IEEE Transactions on Mobile Computing, 2020, 19, 1274-1285.	5.8	160
9	A Survey of Incentive Mechanisms for Participatory Sensing. IEEE Communications Surveys and Tutorials, 2015, 17, 918-943.	39.4	156
10	Context-Awareness for Mobile Sensing: A Survey and Future Directions. IEEE Communications Surveys and Tutorials, 2016, 18, 68-93.	39.4	150
11	Efficient naming, addressing and profile services in Internet-of-Things sensory environments. Ad Hoc Networks, 2014, 18, 85-101.	5.5	127
12	Learning-Based Energy-Efficient Data Collection by Unmanned Vehicles in Smart Cities. IEEE Transactions on Industrial Informatics, 2018, 14, 1666-1676.	11.3	126
13	Heterogeneous Multi-Task Assignment in Mobile Crowdsensing Using Spatiotemporal Correlation. IEEE Transactions on Mobile Computing, 2019, 18, 84-97.	5.8	108
14	Deep Residual Correction Network for Partial Domain Adaptation. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2021, 43, 2329-2344.	13.9	95
15	Toward QoI and Energy-Efficiency in Internet-of-Things Sensory Environments. IEEE Transactions on Emerging Topics in Computing, 2014, 2, 473-487.	4.6	89
16	Energy-Efficient Distributed Mobile Crowd Sensing: A Deep Learning Approach. IEEE Journal on Selected Areas in Communications, 2019, 37, 1262-1276.	14.0	89
17	Energy-Aware Participant Selection for Smartphone-Enabled Mobile Crowd Sensing. IEEE Systems Journal, 2017, 11, 1435-1446.	4.6	81
18	Energy-Efficient Location and Activity-Aware On-Demand Mobile Distributed Sensing Platform for Sensing as a Service in IoT Clouds. IEEE Transactions on Computational Social Systems, 2015, 2, 171-181.	4.4	77

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19	Distributed and Energy-Efficient Mobile Crowdsensing with Charging Stations by Deep Reinforcement Learning. IEEE Transactions on Mobile Computing, 2021, 20, 130-146.	5.8	71
20	Energy-Efficient Relay Selection for Cooperative Relaying in Wireless Multimedia Networks. IEEE Transactions on Vehicular Technology, 2015, 64, 1156-1170.	6.3	68
21	Privacy-preserving QoI-aware participant coordination for mobile crowdsourcing. Computer Networks, 2016, 101, 29-41.	5.1	62
22	Transferable Semantic Augmentation for Domain Adaptation. , 2021, , .		59
23	Online Quality-Aware Incentive Mechanism for Mobile Crowd Sensing with Extra Bonus. IEEE Transactions on Mobile Computing, 2019, 18, 2589-2603.	5.8	57
24	Free Market of Multi-Leader Multi-Follower Mobile Crowdsensing: An Incentive Mechanism Design by Deep Reinforcement Learning. IEEE Transactions on Mobile Computing, 2020, 19, 2316-2329.	5.8	46
25	Discriminative Transfer Feature and Label Consistency for Cross-Domain Image Classification. IEEE Transactions on Neural Networks and Learning Systems, 2020, 31, 4842-4856.	11.3	43
26	A survey of context-aware middleware designs for human activity recognition. , 2014, 52, 24-31.		40
27	Towards secure and privacy preserving collision avoidance system in 5G fog based Internet of Vehicles. Future Generation Computer Systems, 2019, 95, 488-499.	7.5	39
28	Spectrum sensing in cognitive vehicular network: State-of-Art, challenges and open issues. Computer Communications, 2017, 97, 15-30.	5.1	38
29	Energy-Efficient UAV Crowdsensing with Multiple Charging Stations by Deep Learning. , 2020, , .		37
30	Credible and energy-aware participant selection with limited task budget for mobile crowd sensing. Ad Hoc Networks, 2016, 43, 56-70.	5.5	36
31	Toward QoI and Energy Efficiency in Participatory Crowdsourcing. IEEE Transactions on Vehicular Technology, 2015, 64, 4684-4700.	6.3	34
32	QoI-aware energy-efficient participant selection. , 2014, , .		33
33	Social-Aware Incentive Mechanism for Vehicular Crowdsensing by Deep Reinforcement Learning. IEEE Transactions on Intelligent Transportation Systems, 2021, 22, 2314-2325.	8.0	32
34	Scalable Channel Allocation and Access Scheduling for Wireless Internet-of-Things. IEEE Sensors Journal, 2013, 13, 3596-3604.	4.7	31
35	Joint multi-radio multi-channel assignment, scheduling, and routing in wireless mesh networks. Wireless Networks, 2014, 20, 11-24.	3.0	29
36	Energy-Efficient Mobile Crowdsensing by Unmanned Vehicles: A Sequential Deep Reinforcement Learning Approach. IEEE Internet of Things Journal, 2020, 7, 6312-6324.	8.7	29

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37	Online War-Driving by Compressive Sensing. IEEE Transactions on Mobile Computing, 2015, 14, 2349-2362.	5.8	28
38	A Collaborative Alignment Framework of Transferable Knowledge Extraction for Unsupervised Domain Adaptation. IEEE Transactions on Knowledge and Data Engineering, 2022, , .	5.7	27
39	Dynamic Control of Data Ferries under Partial Observations. , 2010, , .		26
40	Generalized Domain Conditioned Adaptation Network. IEEE Transactions on Pattern Analysis and Machine Intelligence, 2021, PP, 1-1.	13.9	25
41	An Event-Driven QoI-Aware Participatory Sensing Framework with Energy and Budget Constraints. ACM Transactions on Intelligent Systems and Technology, 2015, 6, 1-19.	4.5	24
42	Multi-Task-Oriented Vehicular Crowdsensing: A Deep Learning Approach. , 2020, , .		24
43	QoI-Aware Wireless Sensor Network Management for Dynamic Multi-Task Operations. , 2010, , .		23
44	Energy-Efficient Event Detection by Participatory Sensing Under Budget Constraints. IEEE Systems Journal, 2017, 11, 2490-2501.	4.6	23
45	Control traffic protection in software-defined networks. , 2014, , .		20
46	Mobile Crowdsensing for Data Freshness: A Deep Reinforcement Learning Approach. , 2021, , .		20
47	Simultaneous Semantic Alignment Network for Heterogeneous Domain Adaptation. , 2020, , .		20
48	A Novel Cross-Layer QoS Routing Algorithm for Wireless Mesh Networks. Information Networking, 2008 ICOIN 2008 International Conference on, 2008, , .	0.0	18
49	AoI-minimal UAV Crowdsensing by Model-based Graph Convolutional Reinforcement Learning. , 2022, , .		18
50	Accelerating Gossip-Based Deep Learning in Heterogeneous Edge Computing Platforms. IEEE Transactions on Parallel and Distributed Systems, 2021, 32, 1591-1602.	5.6	17
51	Participant Selection for Federated Learning With Heterogeneous Data in Intelligent Transport System. IEEE Transactions on Intelligent Transportation Systems, 2023, 24, 1106-1115.	8.0	17
52	Sketching the data center network traffic. IEEE Network, 2013, 27, 33-39.	6.9	16
53	Workload-Adaptive Configuration Tuning for Hierarchical Cloud Schedulers. IEEE Transactions on Parallel and Distributed Systems, 2019, 30, 2879-2895.	5.6	16
54	Curiosity-Driven Energy-Efficient Worker Scheduling in Vehicular Crowdsourcing: A Deep Reinforcement Learning Approach. , 2020, , .		16

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55	Cross-Layer Design for QoS in Wireless Mesh Networks. Wireless Personal Communications, 2009, 51, 593-613.	2.7	15
56	QoI-aware energy management for wireless sensor networks. , 2011, , .		15
57	A Generic Admission-Control Methodology for Packet Networks. IEEE Transactions on Wireless Communications, 2014, 13, 604-617.	9.2	15
58	I2V-GAN: Unpaired Infrared-to-Visible Video Translation. , 2021, , .		15
59	Light-Weight Online Unsupervised Posture Detection by Smartphone Accelerometer. IEEE Internet of Things Journal, 2015, 2, 329-339.	8.7	14
60	Energy-Efficient and Context-Aware Smartphone Sensor Employment. IEEE Transactions on Vehicular Technology, 2015, 64, 4230-4244.	6.3	14
61	Delay-Sensitive Energy-Efficient UAV Crowdsensing by Deep Reinforcement Learning. IEEE Transactions on Mobile Computing, 2023, 22, 2038-2052.	5.8	14
62	A Cross-Layer Framework of QoS Routing and Distributed Scheduling for Mesh Networks. IEEE Vehicular Technology Conference, 2008, , .	0.4	13
63	Personalized Multimedia Recommendations for Cloud-Integrated Cyber-Physical Systems. IEEE Systems Journal, 2017, 11, 106-117.	4.6	13
64	QoI-aware energy management in Internet-of-Things sensory environments. , 2012, , .		12
65	Modeling Battery Behavior on Sensory Operations for Context-Aware Smartphone Sensing. Sensors, 2015, 15, 12323-12341.	3.8	12
66	Learning to Navigate Connected Autonomous Cars for Long-Term Communication Coverage. IT Professional, 2018, 20, 46-53.	1.5	12
67	Energy-Efficient 3D Vehicular Crowdsourcing for Disaster Response by Distributed Deep Reinforcement Learning. , 2021, , .		12
68	MIMO routing with QoS provisioning. , 2008, , .		11
69	QoI-Aware Energy-Efficient Participatory Crowdsourcing. IEEE Sensors Journal, 2013, 13, 3742-3753.	4.7	11
70	Time-Aware Location Prediction by Convolutional Area-of-Interest Modeling and Memory-Augmented Attentive LSTM. IEEE Transactions on Knowledge and Data Engineering, 2022, 34, 2472-2484.	5.7	11
71	Scalable and Efficient Diagnosis for 5G Data Center Network Traffic. IEEE Access, 2014, 2, 841-855.	4.2	10
72	Adaptive Working Schedule for Duty-Cycle Opportunistic Mobile Networks. IEEE Transactions on Vehicular Technology, 2014, 63, 4694-4703.	6.3	10

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73	Social-Aware Sequential Modeling of User Interests: A Deep Learning Approach. IEEE Transactions on Knowledge and Data Engineering, 2019, 31, 2200-2212.	5.7	10
74	Adaptive Sampling and Duty Cycling for Smartphone Accelerometer. , 2013, , .		9
75	EdgeTuner: Fast Scheduling Algorithm Tuning for Dynamic Edge-Cloud Workloads and Resources. , 2022, , .		9
76	Cloud-Based Actor Identification With Batch-Orthogonal Local-Sensitive Hashing and Sparse Representation. IEEE Transactions on Multimedia, 2016, 18, 1749-1761.	7.2	8
77	LTE-based humanoid robotics system. Microprocessors and Microsystems, 2015, 39, 1279-1284.	2.8	7
78	USA: Faster update for SDN-based internet of things sensory environments. Computer Communications, 2018, 120, 80-92.	5.1	7
79	SlimML: Removing Non-critical Input Data in Large-scale Iterative Machine Learning. IEEE Transactions on Knowledge and Data Engineering, 2019, , 1-1.	5.7	6
80	Accurate Differentially Private Deep Learning on the Edge. IEEE Transactions on Parallel and Distributed Systems, 2021, 32, 2231-2247.	5.6	6
81	Modeling User Interests With Online Social Network Influence by Memory Augmented Sequence Learning. IEEE Transactions on Network Science and Engineering, 2021, 8, 541-554.	6.4	6
82	Dynamic Domain Adaptation for Efficient Inference. , 2021, , .		6
83	Hybrid Vehicular Crowdsourcing With Driverless Cars: Challenges and a Solution. Computer, 2018, 51, 24-31.	1.1	5
84	Federated Learning With Heterogeneity-Aware Probabilistic Synchronous Parallel on Edge. IEEE Transactions on Services Computing, 2022, 15, 614-626.	4.6	5
85	A Distributed Scheduling Algorithm with QoS Provisions in Multi-hop Wireless Mesh Networks. , 2008, , .		4
86	Summarizing Data Center Network Traffic by Partitioned Conservative Update. IEEE Communications Letters, 2013, 17, 2168-2171.	4.1	4
87	The Future of Smart Dressing Mirror: An Open Innovation Concept Video. , 2015, , .		4
88	Optimal feature combination analysis for crowd saliency prediction. Journal of Visual Communication and Image Representation, 2018, 50, 1-8.	2.8	4
89	Accelerating Deep Learning Systems via Critical Set Identification and Model Compression. IEEE Transactions on Computers, 2020, , 1-1.	3.4	4
90	Meta-reweighted Regularization for Unsupervised Domain Adaptation. IEEE Transactions on Knowledge and Data Engineering, 2021, , 1-1.	5.7	4

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91	Diagnosing Virtualized Hadoop Performance from Benchmark Results: An Exploratory Study. , 2014, , .		3
92	Multi-player gaming in public transport crowd: Opportunities and challenges. , 2014, , .		3
93	Distributed and Real-Time Query Framework for Processing Participatory Sensing Data Streams. , 2015, , .		3
94	Guest Editorial: Introduction to the Special Section on Sensor Data Computing as a Service in Internet of Things. IEEE Transactions on Emerging Topics in Computing, 2019, 7, 311-313.	4.6	3
95	Crowd saliency prediction with optimal feature combinations. , 2016, , .		2
96	Automatic Person Identification in Camera Video by Motion Correlation. Journal of Sensors, 2014, 2014, 1-8.	1.1	1
97	Node density and connectivity of multi-channel ad hoc cognitive radio networks. , 2015, , .		1
98	Energy-efficient dynamic event detection by participatory sensing. , 2015, , .		1
99	Efficient On/Off-Line Query Pre-processing for Telecom Social Streaming Data. , 2016, , .		1
100	Ensuring High-Quality Data Collection for Mobile Crowd Sensing. , 2017, , .		1
101	A Mobile Computing Method Using CNN and SR for Signature Authentication with Contour Damage and Light Distortion. Wireless Communications and Mobile Computing, 2018, 2018, 1-10.	1.2	1
102	End-to-End Transferable Anomaly Detection via Multi-spectral Cross-domain Representation Alignment. IEEE Transactions on Knowledge and Data Engineering, 2021, , 1-1.	5.7	1
103	Route Capacity Estimation Based Admission Control and QoS Routing for Mesh Networks. , 2009, , .		0
104	An Efficient Cross-Layer Simulation Architecture for Mesh Networks. , 2009, , .		0
105	Exploring passenger dynamics and connectivities in Beijing underground via bluetooth networks. , 2012, , .		0
106	Towards Energy-Efficiency in Selfish, Cooperative Networks. Mobile Networks and Applications, 2013, 18, 535-552.	3.3	0
107	Fair and energy-efficient cooperative relaying with selfish nodes. , 2013, , .		0
108	Structural hole based link addition for capacity enhancement in scale-free networks. , 2015, , .		0

#	ARTICLE	IF	CITATIONS
109	Crowdsourcing energy-efficient participants to ensure quality-of-information. , 2015, , .		0
110	Maximizing Data Credibility Under Budget Constraint for Participatory Sensing. , 2015, , .		0
111	Personalized online video recommendations by using adaptive feedback control frameworks. , 2015, , .		0
112	Robots-Aided Participatory Crowdsourcing with Limited Task Budget. , 2016, , .		0
113	Guest Editorial Special Issue on Software Defined Wireless Sensor Networks. IEEE Sensors Journal, 2016, 16, 7303-7303.	4.7	0
114	Lightweight and Accurate DNN-based Anomaly Detection at Edge. IEEE Transactions on Parallel and Distributed Systems, 2021, , 1-1.	5.6	0
115	Energy-Efficient and Fair IoT Data Distribution in Decentralised Federated Learning. IEEE Transactions on Network Science and Engineering, 2023, 10, 1352-1363.	6.4	0