Cyril Leung

List of Publications by Year
in descending order

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104 papers	2,789 citations	236925 25 h-index	206112 48 g-index
104 all docs	104 docs citations	104 times ranked	2387 citing authors

#	Article	IF	Citations
1	Decentralized Edge Intelligence: A Dynamic Resource Allocation Framework for Hierarchical Federated Learning. IEEE Transactions on Parallel and Distributed Systems, 2022, 33, 536-550.	5.6	124
2	When Information Freshness Meets Service Latency in Federated Learning: A Task-Aware Incentive Scheme for Smart Industries. IEEE Transactions on Industrial Informatics, 2022, 18, 457-466.	11.3	36
3	A Double Auction Mechanism for Resource Allocation in Coded Vehicular Edge Computing. IEEE Transactions on Vehicular Technology, 2022, 71, 1832-1845.	6.3	15
4	Dynamics in Coded Edge Computing for IoT: A Fractional Evolutionary Game Approach. IEEE Internet of Things Journal, 2022, 9, 13978-13994.	8.7	3
5	A Hierarchical Incentive Design Toward Motivating Participation in Coded Federated Learning. IEEE Journal on Selected Areas in Communications, 2022, 40, 359-375.	14.0	22
6	A Mining Strategy for Minimizing Waiting Time in Blockchains for Time-Sensitive Applications. Wireless Communications and Mobile Computing, 2022, 2022, 1-8.	1.2	2
7	Accelerating Blockchain-enabled Distributed Machine Learning by Proof of Useful Work. , 2022, , .		0
8	UAV-Assisted Wireless Energy and Data Transfer With Deep Reinforcement Learning. IEEE Transactions on Cognitive Communications and Networking, 2021, 7, 85-99.	7.9	63
9	Optimizing Task Assignment for Reliable Blockchain-Empowered Federated Edge Learning. IEEE Transactions on Vehicular Technology, 2021, 70, 1910-1923.	6.3	53
10	Joint Auction-Coalition Formation Framework for Communication-Efficient Federated Learning in UAV-Enabled Internet of Vehicles. IEEE Transactions on Intelligent Transportation Systems, 2021, 22, 2326-2344.	8.0	63
11	Towards Federated Learning in UAV-Enabled Internet of Vehicles: A Multi-Dimensional Contract-Matching Approach. IEEE Transactions on Intelligent Transportation Systems, 2021, 22, 5140-5154.	8.0	127
12	A Comprehensive Survey on Coded Distributed Computing: Fundamentals, Challenges, and Networking Applications. IEEE Communications Surveys and Tutorials, 2021, 23, 1800-1837.	39.4	38
13	Dynamic Contract Design for Federated Learning in Smart Healthcare Applications. IEEE Internet of Things Journal, 2021, 8, 16853-16862.	8.7	41
14	A Double Auction Mechanism for Coded Distributed Computing in Smart Vehicles. , 2021, , .		0
15	A Multi-Class Blockchain Services Framework for Communication Networks. , 2021, , .		0
16	A Hierarchical Incentive Mechanism for Coded Federated Learning. , 2021, , .		0
17	Analysis of Proof-of-Work-Based Blockchains Under an Adaptive Double-Spend Attack. IEEE Transactions on Industrial Informatics, 2020, 16, 7035-7045.	11.3	19
18	Hierarchical Incentive Mechanism Design for Federated Machine Learning in Mobile Networks. IEEE Internet of Things Journal, 2020, 7, 9575-9588.	8.7	121

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19	Addressing the Challenges of Government Service Provision with AI. AI Magazine, 2020, 41, 33-43.	1.6	4
20	Diabetic Retinopathy Classification Using an Efficient Convolutional Neural Network. , 2019, , .		16
21	A Blockchain-Based Contractual Routing Protocol for the Internet of Things Using Smart Contracts. Wireless Communications and Mobile Computing, 2018, 2018, 1-14.	1.2	77
22	Artificial Intelligence Powered MOOCs: A Brief Survey. , 2018, , .		7
23	A Survey of Secure Routing Protocols in Multi-Hop Cellular Networks. IEEE Communications Surveys and Tutorials, 2018, 20, 3510-3541.	39.4	12
24	Building Ethics into Artificial Intelligence. , 2018, , .		86
25	Towards online and personalized daily activity recognition, habit modeling, and anomaly detection for the solitary elderly through unobtrusive sensing. Multimedia Tools and Applications, 2017, 76, 10779-10799.	3.9	52
26	Power Allocation in an RF Energy Harvesting DF Relay Network in the Presence of an Interferer. IEEE Access, 2017, 5, 7606-7618.	4.2	10
27	Robust unobtrusive fall detection using infrared array sensors. , 2017, , .		26
28	Towards AI-powered personalization in MOOC learning. Npj Science of Learning, 2017, 2, 15.	2.8	59
29	WiHACS: Leveraging WiFi for human activity classification using OFDM subcarriers' correlation. , 2017, , .		19
30	Balancing quality and budget considerations in mobile crowdsourcing. Decision Support Systems, 2016, 90, 56-64.	5.9	58
31	Detection of anomalies in activity patterns of lone occupants from electricity usage data. , 2016, , .		2
32	H.265 video capacity over beyond-4G networks. , 2016, , .		8
33	Context-Aware Relay Selection in Buffer-Aided Wireless Relay Networks. IEEE Communications Letters, 2016, 20, 2502-2505.	4.1	9
34	RF energy harvesting in DF relay networks in the presence of an interfering signal. , 2016, , .		19
35	Wireless Energy Harvesting in a Cognitive Relay Network. IEEE Transactions on Wireless Communications, 2016, 15, 2498-2508.	9.2	150
36	A Coral Reef Algorithm Based on Learning Automata for the Coverage Control Problem of Heterogeneous Directional Sensor Networks. Sensors, 2015, 15, 30617-30635.	3.8	18

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37	Rollout Algorithms for Wireless Sensor Network-Assisted Target Search. IEEE Sensors Journal, 2015, 15, 3835-3845.	4.7	9
38	Transient Analysis for a Trust-Based Cognitive Radio Collaborative Spectrum Sensing Scheme. IEEE Wireless Communications Letters, 2015, 4, 377-380.	5.0	5
39	Energy Efficient Collaborative Spectrum Sensing Based on Trust Management in Cognitive Radio Networks. IEEE Transactions on Wireless Communications, 2015, 14, 1927-1939.	9.2	25
40	Transient analysis in cognitive radio collaborative spectrum sensing. , 2014, , .		1
41	Wireless Energy Harvesting and Spectrum Sharing in Cognitive Radio. , 2014, , .		50
42	Wireless sensor network-assisted, autonomous mapping with information-theoretic utility. , 2014, , .		1
43	Rollout Algorithm for Target Search in a Wireless Sensor Network. , 2014, , .		2
44	Centralized Collusion Attack in Cognitive Radio Collaborative Spectrum Sensing. , 2014, , .		2
45	A stochastic process model of the hop count distribution in wireless sensor networks. Ad Hoc Networks, 2014, 17, 60-70.	5.5	14
46	Filtering trust opinions through reinforcement learning. Decision Support Systems, 2014, 66, 102-113.	5.9	29
47	A hybrid swarm intelligence algorithm for multiuser scheduling in HSDPA. Applied Soft Computing Journal, 2013, 13, 2990-2996.	7.2	6
48	A Survey of Multi-Agent Trust Management Systems. IEEE Access, 2013, 1, 35-50.	4.2	166
49	Cognitive MIMO Relaying in Nakagami-m Fading. , 2013, , .		4
50	Bringing reputation-awareness into crowdsourcing. , 2013, , .		4
51	Lifetime Analysis of a Two-Hop Amplify-and-Forward Opportunistic Wireless Relay Network. IEEE Transactions on Wireless Communications, 2013, 12, 1186-1195.	9.2	13
52	Trust-Based Energy Efficient Spectrum Sensing in Cognitive Radio Networks. , 2013, , .		5
53	From Internet of Things to Internet of Agents. , 2013, , .		39
54	Modeling the hop count distribution in wireless sensor networks. , 2013, , .		1

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55	Trust-aware resource allocation in a cognitive radio system. , 2012, , .		6
56	Collaborative Spectrum Sensing in a Cognitive Radio System with Laplacian Noise. IEEE Communications Letters, 2012, 16, 1691-1694.	4.1	15
57	A Comparison of Two MIMO Relaying Protocols in Nakagami- m Fading. IEEE Transactions on Vehicular Technology, 2012, 61, 1416-1422.	6.3	20
58	BitQoS-Aware Resource Allocation for Multi-User Mixed-Traffic OFDM Systems. IEEE Transactions on Vehicular Technology, 2012, 61, 2067-2082.	6.3	5
59	Scheduling in a cognitive radio network. , 2011, , .		0
60	QoS-aware bit scheduling in multi-user OFDM systems. , 2011, , .		1
61	Dynamic witness selection for trustworthy distributed cooperative sensing in cognitive radio networks. , 2011, , .		19
62	On Collision Probabilities in Frequency-Domain Scheduling for LTE Cellular Networks. IEEE Communications Letters, 2011, 15, 965-967.	4.1	12
63	An Efficient Power-Loading Scheme for OFDM-Based Cognitive Radio Systems. IEEE Transactions on Vehicular Technology, 2010, 59, 1858-1864.	6.3	39
64	Credibility: How Agents Can Handle Unfair Third-Party Testimonies in Computational Trust Models. IEEE Transactions on Knowledge and Data Engineering, 2010, 22, 1286-1298.	5.7	22
65	Resource allocation in an OFDM-based cognitive radio system. IEEE Transactions on Communications, 2009, 57, 1928-1931.	7.8	147
66	Cross-Layer Resource Allocation for Mixed Services in Multiuser OFDM-Based Cognitive Radio Systems. IEEE Transactions on Vehicular Technology, 2009, 58, 4605-4619.	6.3	45
67	Subchannel Power-Loading Schemes in Multiuser OFDM Systems. IEEE Transactions on Vehicular Technology, 2009, 58, 5341-5347.	6.3	5
68	Cross-layer resource allocation for real-time services inÂOFDM-based cognitive radio systems. Telecommunication Systems, 2009, 42, 97-108.	2.5	23
69	Proportional Fair Multiuser Scheduling in LTE. IEEE Signal Processing Letters, 2009, 16, 461-464.	3.6	211
70	Resource allocation for non-real-time services in OFDM-based cognitive radio systems. IEEE Communications Letters, 2009, 13, 16-18.	4.1	43
71	Towards a trust aware cognitive radio architecture. Mobile Computing and Communications Review, 2009, 13, 86-95.	1.7	87
72	Performance of a CDMA system employing AMC and multicodes in the presence of channel estimation errors. IEEE Transactions on Communications, 2008, 56, 189-193.	7.8	1

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73	Statistics of general order selection in correlated Nakagami fading channels. IEEE Transactions on Communications, 2008, 56, 344-346.	7.8	18
74	Multiuser Scheduling in HSDPA using Simulated Annealing. , 2008, , .		6
75	Memetic algorithms with multi-local-search for resource allocation in multiuser OFDM based Cognitive Radio systems. , 2008, , .		0
76	Subcarrier, Bit and Power Allocation for Multiuser OFDM-Based Multi-Cell Cognitive Radio Systems. , 2008, , .		12
77	Memetic algorithm for dynamic resource allocation in multiuser OFDM based Cognitive Radio systems. , 2008, , .		5
78	A Power Assignment Scheme for Improving Outage Probability in HSDPA. IEEE Vehicular Technology Conference, 2008, , .	0.4	1
79	Multiuser Scheduling for High Speed Uplink Packet Access. IEEE Vehicular Technology Conference, 2008, , .	0.4	2
80	Adaptive Cross Layer Scheduling with Flow Multiplexing. , 2008, , .		4
81	Multiuser Scheduling on the Downlink of an LTE Cellular System. Research Letters in Communications, 2008, 2008, 1-4.	0.9	82
82	A Cost Minimization Algorithm for a Multiuser OFDM Cognitive Radio System. , 2007, , .		10
83	A Power Adjustment Scheme for Improving Outage Probability in a CDMA System. , 2007, , .		0
84	Performance of Equal Power Subchannel Loading in Multiuser OFDM systems. , 2007, , .		1
85	Multi-Flow Merging Gain in Scheduling for Flow-Based Wireless Networks. , 2007, , .		2
86	Downlink Scheduling Schemes for CDMA Networks with Adaptive Modulation and Coding and Multicodes. IEEE Transactions on Wireless Communications, 2007, 6, 3668-3677.	9.2	15
87	On Joint Order Statistics in Correlated Nakagami Fading Channels. IEEE Communications Letters, 2007, 11, 717-719.	4.1	1
88	On Joint Order Statistics in Correlated Nakagami Fading Channels. , 2007, , .		6
89	General Order Selection Combining for Nakagami and Weibull Fading Channels. IEEE Transactions on Wireless Communications, 2007, 6, 2027-2032.	9.2	13
90	Fair Adaptive Resource Allocation for Multiuser OFDM Cognitive Radio Systems. , 2007, , .		37

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91	Equalization for DS-UWB Systemsâ€"Part I: BPSK Modulation. IEEE Transactions on Communications, 2007, 55, 1164-1173.	7.8	37
92	Equalization for DS-UWB Systems---Part II: 4BOK Modulation. IEEE Transactions on Communications, 2007, 55, 1525-1535.	7.8	15
93	On the Applicability of the Pearson Method for Approximating Distributions in Wireless Communications. IEEE Transactions on Communications, 2007, 55, 2065-2069.	7.8	15
94	An accurate method for approximating probability distributions in wireless communications. , 2006, , .		4
95	Equalization for 4BOK DS-UWB Systems. , 2006, , .		5
96	A channel aware frequency hopping multiple access scheme. , 2004, , .		2
97	An Improved Round Robin Packet Scheduler for Wireless Networks. International Journal of Wireless Information Networks, 2004, 11, 41-54.	2.7	5
98	Performance of Reuse Partitioning in Cellular Systems with Mobile Users. International Journal of Wireless Information Networks, 2003, 10, 17-31.	2.7	16
99	Capacity improvement in cellular systems with reuse partitioning. Journal of Communications and Networks, 2001, 3, 1-8.	2.6	10
100	A Network-Based Dynamic Channel Assignment Scheme for TDMA Cellular Systems. International Journal of Wireless Information Networks, 2001, 8, 155-165.	2.7	21
101	Diversity reception in a multihop packet radio network. Mobile Networks and Applications, 2000, 5, 39-47.	3.3	3
102	Optimal detection in the presence of co-channel interference and noise in a fast fading environment. , 0, , .		1
103	An HMM approach to adaptive modulation and coding with multicodes for fading channels. , 0, , .		0
104	Selection diversity in non-identically distributed Nakagami fading channels. , 0, , .		4