

# Kok-Lim Alvin Yau

## List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

84  
papers

1,581  
citations

24  
h-index

37  
g-index

99  
ext. papers

2,217  
ext. citations

4.1  
avg, IF

5.48  
L-index

#	Paper	IF	Citations
84	5G-Based Smart Healthcare Network: Architecture, Taxonomy, Challenges and Future Research Directions. <i>IEEE Access</i> , <b>2019</b> , 7, 100747-100762	3.5	122
83	Reinforcement learning for context awareness and intelligence in wireless networks: Review, new features and open issues. <i>Journal of Network and Computer Applications</i> , <b>2012</b> , 35, 253-267	7.9	102
82	Unsupervised Machine Learning for Networking: Techniques, Applications and Research Challenges. <i>IEEE Access</i> , <b>2019</b> , 7, 65579-65615	3.5	89
81	Edge Computing in 5G: A Review. <i>IEEE Access</i> , <b>2019</b> , 7, 127276-127289	3.5	78
80	A Survey on Reinforcement Learning Models and Algorithms for Traffic Signal Control. <i>ACM Computing Surveys</i> , <b>2017</b> , 50, 1-38	13.4	75
79	Federated Learning for Vehicular Internet of Things: Recent Advances and Open Issues. <i>IEEE Open Journal of the Computer Society</i> , <b>2020</b> ,	3.6	69
78	QoS in IEEE 802.11-based wireless networks: A contemporary review. <i>Journal of Network and Computer Applications</i> , <b>2015</b> , 55, 24-46	7.9	66
77	A Survey on Simultaneous Wireless Information and Power Transfer With Cooperative Relay and Future Challenges. <i>IEEE Access</i> , <b>2019</b> , 7, 19166-19198	3.5	63
76	. <i>IEEE Communications Surveys and Tutorials</i> , <b>2015</b> , 17, 2176-2213	37.1	50
75	Application of reinforcement learning to routing in distributed wireless networks: a review. <i>Artificial Intelligence Review</i> , <b>2015</b> , 43, 381-416	9.7	48
74	Clustering and Reinforcement-Learning-Based Routing for Cognitive Radio Networks. <i>IEEE Wireless Communications</i> , <b>2017</b> , 24, 146-151	13.4	40
73	Clustering algorithms for Cognitive Radio networks: A survey. <i>Journal of Network and Computer Applications</i> , <b>2014</b> , 45, 79-95	7.9	37
72	Cognitive Radio-based Wireless Sensor Networks: Conceptual design and open issues <b>2009</b> ,		34
71	A Security-Enhanced Cluster Size Adjustment Scheme for Cognitive Radio Networks. <i>IEEE Access</i> , <b>2019</b> , 7, 117-130	3.5	32
70	SMART: A Spectrum-Aware Cluster-based routing scheme for distributed cognitive radio networks. <i>Computer Networks</i> , <b>2015</b> , 91, 196-224	5.4	31
69	Route Selection for Multi-Hop Cognitive Radio Networks Using Reinforcement Learning: An Experimental Study. <i>IEEE Access</i> , <b>2016</b> , 4, 6304-6324	3.5	31
68	Comprehensive Survey of Machine Learning Approaches in Cognitive Radio-Based Vehicular Ad Hoc Networks. <i>IEEE Access</i> , <b>2020</b> , 8, 78054-78108	3.5	30

67	A context-aware and Intelligent Dynamic Channel Selection scheme for cognitive radio networks <b>2009</b> ,		30
66	Application of reinforcement learning for security enhancement in cognitive radio networks. <i>Applied Soft Computing Journal</i> , <b>2015</b> , 37, 809-829	7.5	29
65	Routing in Distributed Cognitive Radio Networks: A Survey. <i>Wireless Personal Communications</i> , <b>2013</b> , 69, 1983-2020	1.9	28
64	Routing Schemes in FANETs: A Survey. <i>Sensors</i> , <b>2019</b> , 20,	3.8	28
63	. <i>IEEE Access</i> , <b>2018</b> , 6, 35072-35090	3.5	27
62	Blockchain for Vehicular Internet of Things: Recent Advances and Open Issues. <i>Sensors</i> , <b>2020</b> , 20,	3.8	25
61	. <i>IEEE Access</i> , <b>2020</b> , 8, 83387-83404	3.5	24
60	Applications of Reinforcement Learning to Cognitive Radio Networks <b>2010</b> ,		23
59	Application of reinforcement learning to wireless sensor networks: models and algorithms. <i>Computing (Vienna/New York)</i> , <b>2015</b> , 97, 1045-1075	2.2	22
58	. <i>IEEE Access</i> , <b>2019</b> , 7, 48236-48255	3.5	21
57	Enhancing network performance in Distributed Cognitive Radio Networks using single-agent and multi-agent Reinforcement Learning <b>2010</b> ,		19
56	Deep reinforcement learning for traffic signal control under disturbances: A case study on Sunway city, Malaysia. <i>Future Generation Computer Systems</i> , <b>2020</b> , 109, 431-445	7.5	16
55	Trust and reputation management in cognitive radio networks: a survey. <i>Security and Communication Networks</i> , <b>2014</b> , 7, 2160-2179	1.9	15
54	Deep Reinforcement Learning for Traffic Signal Control: A Review. <i>IEEE Access</i> , <b>2020</b> , 8, 208016-208044	3.5	14
53	Survey and taxonomy of clustering algorithms in 5G. <i>Journal of Network and Computer Applications</i> , <b>2020</b> , 154, 102539	7.9	13
52	IEEE ACCESS SPECIAL SECTION EDITORIAL: ARTIFICIAL INTELLIGENCE ENABLED NETWORKING. <i>IEEE Access</i> , <b>2015</b> , 3, 3079-3082	3.5	13
51	On Cognitive Radio-based Wireless Body Area Networks for medical applications <b>2013</b> ,		12
50	. <i>IEEE Transactions on Cognitive Communications and Networking</i> , <b>2019</b> , 5, 28-43	6.6	11

49	Virtual Edge: Exploring Computation Offloading in Collaborative Vehicular Edge Computing. <i>IEEE Access</i> , <b>2021</b> , 9, 37739-37751	3.5	10
48	Context-awareness and intelligence in Distributed Cognitive Radio Networks: A Reinforcement Learning approach <b>2010</b> ,		9
47	. <i>IEEE Access</i> , <b>2018</b> , 6, 1055-1072	3.5	8
46	Route selection over clustered cognitive radio networks: An experimental evaluation. <i>Computer Communications</i> , <b>2018</b> , 129, 138-151	5.1	8
45	<b>2014</b> ,		8
44	Spectrum Leasing in Cognitive Radio Networks: A Survey. <i>International Journal of Distributed Sensor Networks</i> , <b>2014</b> , 10, 329235	1.7	8
43	Collaborative Vehicular Edge Computing Towards Greener ITS. <i>IEEE Access</i> , <b>2020</b> , 8, 63935-63944	3.5	8
42	A Routing Protocol for UAV-Assisted Vehicular Delay Tolerant Networks. <i>IEEE Open Journal of the Computer Society</i> , <b>2021</b> , 2, 85-98	3.6	8
41	Addressing the Major Information Technology Challenges of Electronic Textbooks. <i>Journal of Computer Information Systems</i> , <b>2015</b> , 55, 40-47	1.9	7
40	<b>2010</b> ,		7
39	Edge computing-based joint client selection and networking scheme for federated learning in vehicular IoT. <i>China Communications</i> , <b>2021</b> , 18, 39-52	3	7
38	Greater Kuala Lumpur as a smart city: A case study on technology opportunities <b>2016</b> ,		7
37	Spectrum sensing challenges & their solutions in cognitive radio based vehicular networks. <i>International Journal of Communication Systems</i> , <b>2021</b> , 34, e4748	1.7	7
36	Trust and Reputation Management for Securing Collaboration in 5G Access Networks: The Road Ahead. <i>IEEE Access</i> , <b>2020</b> , 8, 62542-62560	3.5	6
35	Reinforcement learning models for scheduling in wireless networks. <i>Frontiers of Computer Science</i> , <b>2013</b> , 7, 754-766	2.2	6
34	Application of reinforcement learning in cognitive radio networks: models and algorithms. <i>Scientific World Journal, The</i> , <b>2014</b> , 2014, 209810	2.2	6
33	Empowering Blockchain in Vehicular Environments With Decentralized Edges. <i>IEEE Access</i> , <b>2020</b> , 8, 202032-202041	3.5	6
32	Towards a smart city: the case of greater Kuala Lumpur in Malaysia <b>2014</b> ,		5

31	Route selection for minimizing interference to primary users in Cognitive Radio Networks: A Reinforcement Learning approach <b>2013</b> ,		5
30	Achieving Context Awareness and Intelligence in Distributed Cognitive Radio Networks: A Payoff Propagation Approach <b>2011</b> ,		5
29	Multi-Objective Harris Hawks Optimization Algorithm Based 2-Hop Routing Algorithm for CR-VANET. <i>IEEE Access</i> , <b>2021</b> , 1-1	3.5	5
28	Machine Learning-Based Cooperative Spectrum Sensing in Dynamic Segmentation Enabled Cognitive Radio Vehicular Network. <i>Energies</i> , <b>2021</b> , 14, 1169	3.1	5
27	Reinforcement learning-based trust and reputation model for cluster head selection in cognitive radio networks <b>2014</b> ,		4
26	A Distributed Testbed for 5G Scenarios: An Experimental Study. <i>Sensors</i> , <b>2019</b> , 20,	3.8	4
25	Computational Intelligence for Internet of Things in the Big Data Era (Part II) [Guest Editorial]. <i>IEEE Computational Intelligence Magazine</i> , <b>2020</b> , 15, 22-23	5.6	3
24	Effects of network characteristics on learning mechanism for routing in cognitive radio ad hoc networks <b>2014</b> ,		3
23	Reinforcement learning for routing in cognitive radio ad hoc networks. <i>Scientific World Journal, The</i> , <b>2014</b> , 2014, 960584	2.2	3
22	Security aspects in the cognition cycle of distributed cognitive radio networks: a survey from a multi-agent perspective. <i>International Journal of Ad Hoc and Ubiquitous Computing</i> , <b>2013</b> , 12, 157	0.7	3
21	Performance Analysis of Reinforcement Learning for Achieving Context Awareness and Intelligence in Mobile Cognitive Radio Networks <b>2011</b> ,		3
20	Performance analysis of Reinforcement Learning for achieving context-awareness and intelligence in Cognitive Radio networks <b>2009</b> ,		3
19	MP-ALM: Exploring Reliable Multipath Multicast Streaming with Multipath TCP <b>2016</b> ,		3
18	Artificial Intelligence Marketing (AIM) for Enhancing Customer Relationships. <i>Applied Sciences (Switzerland)</i> , <b>2021</b> , 11, 8562	2.6	3
17	. <i>IEEE Access</i> , <b>2021</b> , 1-1	3.5	3
16	Joint channel selection and cluster-based routing scheme based on reinforcement learning for cognitive radio networks <b>2015</b> ,		2
15	Computational Intelligence Techniques for Mobile Network Optimization [Guest Editorial]. <i>IEEE Computational Intelligence Magazine</i> , <b>2018</b> , 13, 28-28	5.6	2
14	C2net: A Cross-Layer Quality of Service (QoS) Architecture for Cognitive Wireless Ad Hoc Networks <b>2008</b> ,		2

13	Applications of Multi-Agent Deep Reinforcement Learning: Models and Algorithms. <i>Applied Sciences (Switzerland)</i> , <b>2021</b> , 11, 10870	2.6	2
12	Faster Convergence of Q-Learning in Cognitive Radio-VANET Scenario. <i>Lecture Notes in Electrical Engineering</i> , <b>2020</b> , 171-181	0.2	2
11	Coexistence Analysis of D2D-Unlicensed and Wi-Fi Communications. <i>Wireless Communications and Mobile Computing</i> , <b>2021</b> , 2021, 1-11	1.9	2
10	An Intelligent Cluster-Based Routing Scheme in 5G Flying Ad Hoc Networks. <i>Applied Sciences (Switzerland)</i> , <b>2022</b> , 12, 3665	2.6	2
9	Can Reinforcement Learning Address Security Issues? an Investigation into a Clustering Scheme in Distributed Cognitive Radio Networks <b>2019</b> ,		1
8	IEEE ACCESS Special Section Editorial: Energy Harvesting and Scavenging: Technologies, Algorithms, and Communication Protocols. <i>IEEE Access</i> , <b>2018</b> , 6, 13461-13465	3.5	1
7	Learning mechanisms for achieving context awareness and intelligence in Cognitive Radio networks <b>2011</b> ,		1
6	Communication Resources Management Based on Spectrum Sensing for Vehicle Platooning. <i>IEEE Transactions on Intelligent Transportation Systems</i> , <b>2022</b> , 1-14	6.1	0
5	Issues and Challenges of Energy-efficient Hybrid Routing Schemes: A Review. <i>Journal of Applied Sciences</i> , <b>2012</b> , 12, 2096-2106	0.3	0
4	An Experimental Study on D2D Route Selection Mechanism in 5G Scenarios. <i>Electronics (Switzerland)</i> , <b>2021</b> , 10, 387	2.6	0
3	Quality of Service (QoS) Provisioning in Cognitive Wireless Ad Hoc Networks. <i>Advances in Wireless Technologies and Telecommunication Book Series</i> , 575-594	0.2	
2	Preserving Privacy of Agents in Reinforcement Learning for Distributed Cognitive Radio Networks. <i>Lecture Notes in Computer Science</i> , <b>2016</b> , 555-562	0.9	
1	Floating Fog: extending fog computing to vast waters for aerial users.. <i>Cluster Computing</i> , <b>2022</b> , 1-15	2.1	