

# Sudharman K Jayaweera

## List of Publications by Year in descending order

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71  
papers

1,429  
citations

687363

13  
h-index

610901

24  
g-index

72  
all docs

72  
docs citations

72  
times ranked

1420  
citing authors

#	ARTICLE	IF	CITATIONS
1	A Survey on Machine-Learning Techniques in Cognitive Radios. IEEE Communications Surveys and Tutorials, 2013, 15, 1136-1159.	39.4	431
2	Dynamic spectrum leasing in cognitive radio networks via primary-secondary user power control games. IEEE Transactions on Wireless Communications, 2009, 8, 3300-3310.	9.2	155
3	Multi-Agent Reinforcement Learning Based Cognitive Anti-Jamming. , 2017, , .		75
4	Optimal Power Scheduling for Correlated Data Fusion in Wireless Sensor Networks via Constrained PSO. IEEE Transactions on Wireless Communications, 2008, 7, 3608-3618.	9.2	71
5	Distributed Smart-Home Decision-Making in a Hierarchical Interactive Smart Grid Architecture. IEEE Transactions on Parallel and Distributed Systems, 2015, 26, 75-84.	5.6	60
6	Wideband Spectrum Sensing and Non-Parametric Signal Classification for Autonomous Self-Learning Cognitive Radios. IEEE Transactions on Wireless Communications, 2012, 11, 2596-2605.	9.2	40
7	Reinforcement learning based anti-jamming with wideband autonomous cognitive radios. , 2016, , .		39
8	Auctioning game based Demand Response scheduling in smart grid. , 2011, , .		37
9	Machine learning aided cognitive RAT selection for 5G heterogeneous networks. , 2017, , .		25
10	A dynamic spectrum leasing (DSL) framework for spectrum sharing in cognitive radio networks. , 2009, , .		23
11	Dynamic sensor tasking for Space Situational Awareness. , 2010, , .		22
12	Distributed Reinforcement Learning based MAC protocols for autonomous cognitive secondary users. , 2011, , .		22
13	Primary User Enters the Game: Performance of Dynamic Spectrum Leasing in Cognitive Radio Networks. IEEE Transactions on Wireless Communications, 2010, 9, 1-5.	9.2	21
14	Uncertainty Modeling and Price-Based Demand Response Scheme Design in Smart Grid. IEEE Systems Journal, 2017, 11, 1743-1754.	4.6	20
15	Distributed Dynamic Spectrum Leasing (D-DSL) for Spectrum Sharing over Multiple Primary Channels. IEEE Transactions on Wireless Communications, 2011, 10, 55-60.	9.2	18
16	Survey on cognitive anti-jamming communications. IET Communications, 2020, 14, 3110-3127.	2.2	18
17	A novel primary-secondary user power control game for cognitive radios. , 2008, , .		17
18	Distributed Sequential Estimation With Noisy, Correlated Observations. IEEE Signal Processing Letters, 2008, 15, 741-744.	3.6	17

#	ARTICLE	IF	CITATIONS
19	Blind cyclostationary feature detection based spectrum sensing for autonomous self-learning cognitive radios. , 2012, , .		16
20	Learning-Aided Sub-Band Selection Algorithms for Spectrum Sensing in Wide-Band Cognitive Radios. IEEE Transactions on Wireless Communications, 2014, 13, 2012-2024.	9.2	15
21	Impact of mobile node density on detection performance measures in a hybrid sensor network. IEEE Transactions on Wireless Communications, 2010, 9, 1760-1769.	9.2	14
22	Robust, Non-Gaussian Wideband Spectrum Sensing in Cognitive Radios. IEEE Transactions on Wireless Communications, 2014, 13, 6410-6421.	9.2	14
23	Radiobots: The autonomous, self-learning future cognitive radios. , 2011, , .		12
24	Uncertainty modeling and prediction for customer load demand in smart grid. , 2013, , .		12
25	A novel cognitive anti-jamming stochastic game. , 2017, , .		12
26	Dynamic Spectrum Tracking Using Energy and Cyclostationarity-Based Multi-Variate Non-Parametric Quickest Detection for Cognitive Radios. IEEE Transactions on Wireless Communications, 2013, 12, 3522-3532.	9.2	11
27	Optimal and Low-Complexity Algorithms for Dynamic Spectrum Access in Centralized Cognitive Radio Networks with Fading Channels. , 2011, , .		10
28	Reinforcement learning aided smart-home decision-making in an interactive smart grid. , 2014, , .		10
29	A cognitive anti-jamming and interference-avoidance stochastic game. , 2017, , .		10
30	A Game-Theoretic Framework for Dynamic Spectrum Leasing (DSL) in Cognitive Radios. , 2009, , .		9
31	Uncertainty Modeling and Stochastic Control Design for Smart Grid with Distributed Renewables. , 2012, , .		9
32	Optimal Node Placement in Decision Fusion Wireless Sensor Networks for Distributed Detection of a Randomly-Located Target. , 2007, , .		8
33	Wideband Spectrum Sensing for Cognitive Radios in Weakly Correlated Non-Gaussian Noise. IEEE Communications Letters, 2015, 19, 1137-1140.	4.1	8
34	PSO for Constrained Optimization: Optimal Power Scheduling for Correlated Data Fusion in Wireless Sensor Networks. , 2007, , .		7
35	Power Efficient Distributed Estimation in a Bandlimited Wireless Sensor Network. Conference Record of the Asilomar Conference on Signals, Systems and Computers, 2007, , .	0.0	7
36	Leader-following consensus in vehicle platoons with an inter-vehicle communication network. , 2014, , .		7

#	ARTICLE	IF	CITATIONS
37	Replicated Q-learning based sub-band selection for wideband spectrum sensing in cognitive radios. , 2016, , .		7
38	Spectrum-Agile Cognitive Radios Using Multi-Task Transfer Deep Reinforcement Learning. IEEE Transactions on Wireless Communications, 2021, 20, 6729-6742.	9.2	7
39	A novel primary-secondary user power control game for cognitive radios with linear receivers. , 2008, , .		6
40	Analysis of Linear Receivers in a Target SINR Game for Wireless Cognitive Networks. , 2008, , .		6
41	Optimal Power Scheduling for Data Fusion in Inhomogeneous Wireless Sensor Networks. , 2006, , .		5
42	Distributed Node Selection for Sequential Estimation over Noisy Communication Channels. IEEE Transactions on Wireless Communications, 2010, 9, 2290-2301.	9.2	5
43	Wideband PHY/MAC bandwidth aggregation optimization for cognitive radios. , 2012, , .		5
44	Information theoretic conditions for tracking in leader-follower systems with communication constraints. Journal of Control Theory and Applications, 2013, 11, 376-385.	0.8	5
45	Distributed estimation with noisy exchanges. , 2008, , .		4
46	Entangled Kalman filters for cooperative estimation. , 2008, , .		4
47	Limitations in tracking systems. Journal of Control Theory and Applications, 2010, 8, 351-358.	0.8	4
48	A Novel Distributed Mobility Protocol for Dynamic Coverage in Sensor Networks. , 2010, , .		4
49	Spectrum-Agile Cognitive Interference Avoidance Through Deep Reinforcement Learning. Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering, 2019, , 218-231.	0.3	4
50	Optimal sensor deployment for distributed detection in the presence of channel fading. , 2008, , .		3
51	Iterative Low-Complexity Multiuser Detection and Decoding for Coded UWB Systems. , 2006, , .		2
52	Large System Decision Fusion Performance in Inhomogeneous Sensor Networks. , 2006, , .		2
53	Power Efficient Analog Forwarding for Correlated Data Fusion in Wireless Sensor Networks. Vehicular Technology Conference-Fall (VTC-FALL), Proceedings, IEEE, 2007, , .	0.0	2
54	Performance analysis of distributed tracking with consensus on noisy time-varying graphs. , 2010, , .		2

#	ARTICLE	IF	CITATIONS
55	Throughput Optimization in Multihop Wireless Networks with Multipacket Reception and Directional Antennas. IEEE Transactions on Parallel and Distributed Systems, 2011, 22, 1206-1213.	5.6	2
56	Cognitive radio, reconfigurable antennas, and radiobots. , 2012, , .		2
57	Reference prediction in optimal control of smart-grid with asynchronous RDG's. , 2012, , .		2
58	Robust Wideband Spectrum Sensing with Compressive Sampling in Cognitive Radios. , 2015, , .		2
59	Independent Component Analysis-Based Source Separation with Noise Cancelling for Cyclostationary Detection in Cognitive Radios. , 2018, , .		2
60	Sequential estimation over noisy channels with distributed node selection. , 2009, , .		1
61	Ad-hoc wireless sensor network based underwater diffusive source localization. , 2012, , .		1
62	Learning-Aided Sensing Scheduling for Wide-Band Cognitive Radios. , 2013, , .		1
63	Classification of Radar and Communications Signals Using Wideband Autonomous Cognitive Radios. , 2018, , .		1
64	Jamming-Resilient Wideband Cognitive Radios with Multi-Agent Reinforcement Learning. International Journal of Software Science and Computational Intelligence, 2018, 10, 1-23.	3.0	1
65	Sensitivity of coherent cooperative transmission to synchronization errors. , 2018, , .		1
66	Multi-task Deep Reinforcement Learning for Cognitive Spectrum-agile Communications. , 2019, , .		1
67	An asymptotically full rate cooperative communication scheme for DS-CDMA systems with non-orthogonal codes. , 2008, , .		0
68	Fairness in sequential estimation: A cooperative game theoretic solution for WSNs. , 2010, , .		0
69	Impact of group cooperation over competitive secondary subnetworks. , 2011, , .		0
70	A subspace-based policy enforcement method in dynamic spectrum leasing schemes. , 2011, , .		0
71	Low-complexity sequential non-parametric signal classification for wideband cognitive radios. , 2014, , .		0