

Simon Haykin

List of Publications by Year in descending order

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26
papers

3,447
citations

566801

15
h-index

794141

19
g-index

27
all docs

27
docs citations

27
times ranked

2217
citing authors

#	ARTICLE	IF	CITATIONS
1	Cubature Kalman Filters. IEEE Transactions on Automatic Control, 2009, 54, 1254-1269.	3.6	2,454
2	Square-Root Quadrature Kalman Filtering. IEEE Transactions on Signal Processing, 2008, 56, 2589-2593.	3.2	111
3	Cognitive Dynamic Systems. Proceedings of the IEEE, 2006, 94, 1910-1911.	16.4	74
4	Optimal waveform design for cognitive radar. , 2008, , .		72
5	Cognitive Control. Proceedings of the IEEE, 2012, 100, 3156-3169.	16.4	71
6	On Cognitive Dynamic Systems: Cognitive Neuroscience and Engineering Learning From Each Other. Proceedings of the IEEE, 2014, 102, 608-628.	16.4	64
7	Syntactic Modeling and Signal Processing of Multifunction Radars: A Stochastic Context-Free Grammar Approach. Proceedings of the IEEE, 2007, 95, 1000-1025.	16.4	55
8	Cognitive Control: Theory and Application. IEEE Access, 2014, 2, 698-710.	2.6	52
9	Stochastic Differential Equation Theory Applied to Wireless Channels. IEEE Transactions on Communications, 2007, 55, 1478-1483.	4.9	42
10	Cognitive Risk Control for Anti-Jamming V2V Communications in Autonomous Vehicle Networks. IEEE Transactions on Vehicular Technology, 2019, 68, 9920-9934.	3.9	37
11	Brain-Inspired Dynamic Spectrum Management for Cognitive Radio Ad Hoc Networks. IEEE Transactions on Wireless Communications, 2012, 11, 3509-3517.	6.1	24
12	Cognitive Risk Control for Transmit-Waveform Selection in Vehicular Radar Systems. IEEE Transactions on Vehicular Technology, 2018, 67, 9542-9556.	3.9	24
13	Cognitive Risk Control for Mitigating Cyber-Attack in Smart Grid. IEEE Access, 2019, 7, 125806-125826.	2.6	24
14	A Novel Wideband MIMO Channel Model and Experimental Validation. IEEE Transactions on Antennas and Propagation, 2008, 56, 550-562.	3.1	22
15	Cognitive Risk Control for Physical Systems. IEEE Access, 2017, 5, 14664-14679.	2.6	21
16	Cognitive Dynamic System for Control and Cyber-Attack Detection in Smart Grid. IEEE Access, 2019, 7, 78320-78335.	2.6	20
17	Artificial Intelligence Communicates With Cognitive Dynamic System for Cybersecurity. IEEE Transactions on Cognitive Communications and Networking, 2019, 5, 463-475.	4.9	12
18	Anti-Jamming V2V Communication in an Integrated UAV-CAV Network with Hybrid Attackers. , 2019, , .		12

#	ARTICLE	IF	CITATIONS
19	Improved Sparse Coding Under the Influence of Perceptual Attention. Neural Computation, 2014, 26, 377-420.	1.3	11
20	A Novel Wideband MIMO Channel Model and McMaster's Wideband MIMO SDR. , 2006, , .		10
21	Cognitive Dynamic Systems: An integrative field that will be a hallmark of the 21st century. , 2011, , .		7
22	Coordinated Cognitive Risk Control for Bridging Vehicular Radar and Communication Systems. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 4135-4150.	4.7	6
23	V2V Communication-Assisted Transmit-Waveform Selection for Cognitive Vehicular Radars. , 2019, , .		5
24	A Novel Wideband MIMO Channel Model and the Wideband MIMO Software Defined Radio. , 2006, , .		2
25	Nonlinear Dynamics of Sea Clutter. International Journal of Navigation and Observation, 2008, 2008, 1-7.	0.8	2
26	Cognitive Dynamic System for AC State Estimation and Cyber-Attack Detection in Smart Grid. , 0, , .		0