Cassio Guimaraes Lopes

List of Publications by Year
in descending order

43 papers	2,765 citations	933264 10 h-index	1058333 14 g-index
43 all docs	43 docs citations	43 times ranked	949 citing authors

#	Article	IF	Citations
1	Diffusion Least-Mean Squares Over Adaptive Networks: Formulation and Performance Analysis. IEEE Transactions on Signal Processing, 2008, 56, 3122-3136.	3.2	859
2	Incremental Adaptive Strategies Over Distributed Networks. IEEE Transactions on Signal Processing, 2007, 55, 4064-4077.	3.2	573
3	Diffusion recursive least-squares for distributed estimation over adaptive networks. IEEE Transactions on Signal Processing, 2008, 56, 1865-1877.	3.2	550
4	Distributed Estimation Over an Adaptive Incremental Network Based on the Affine Projection Algorithm. IEEE Transactions on Signal Processing, 2010, 58, 151-164.	3.2	145
5	Distributed Recursive Least-Squares Strategies Over Adaptive Networks. , 2006, , .		96
6	Adaptive Processing over Distributed Networks. IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences, 2007, E90-A, 1504-1510.	0.2	96
7	Diffusion Least-Mean Squares Over Adaptive Networks. , 2007, , .		64
8	Diffusion adaptive networks with changing topologies. Proceedings of the IEEE International Conference on Acoustics, Speech, and Signal Processing, 2008, , .	1.8	55
9	A diffusion rls scheme for distributed estimation over adaptive networks. , 2007, , .		33
10	Distributed processing over adaptive networks. , 2007, , .		28
11	Geometric-Algebra Adaptive Filters. IEEE Transactions on Signal Processing, 2019, 67, 3649-3662.	3.2	27
12	Randomized incremental protocols over adaptive networks. , 2010, , .		25
13	Geometric-Algebra LMS Adaptive Filter and Its Application to Rotation Estimation. IEEE Signal Processing Letters, 2016, 23, 858-862.	2.1	24
14	Adaptive Carrier Tracking for Mars to Earth Communications During Entry, Descent, and Landing. IEEE Transactions on Aerospace and Electronic Systems, 2010, 46, 1865-1879.	2.6	19
15	Combination of adaptive filters with coefficients feedback. , 2012, , .		17
16	6DOF point cloud alignment using geometric algebra-based adaptive filtering. , 2016, , .		12
17	A Low-Complexity Nonlinear Least Mean Squares Filter Based on a Decomposable Volterra Model. IEEE Transactions on Signal Processing, 2019, 67, 5463-5478.	3.2	12
18	Evaluation and design of variable step size adaptive algorithms. , 0, , .		11

#	Article	IF	Citations
19	Adaptive Carrier Tracking for Direct-To-Earth Mars Communications. , 2006, , .		10
20	Online time delay estimation of pulsar signals for relative navigation using adaptive filters. , 2008, , .		10
21	An Array Recursive Least-Squares Algorithm With Generic Nonfading Regularization Matrix. IEEE Signal Processing Letters, 2010, 17, 1001-1004.	2.1	10
22	Incremental-cooperative strategies in combination of adaptive filters. , 2011, , .		9
23	FIRâ€"IIR adaptive filters hybrid combination. Electronics Letters, 2014, 50, 501-503.	0.5	9
24	Incremental combination of RLS and LMS adaptive filters in nonstationary scenarios. , 2013, , .		8
25	Analyzing LiDAR scan skewing and its impact on scan matching. , 2016, , .		8
26	Steady-State Performance of Adaptive Diffusion Least-Mean Squares. , 2007, , .		7
27	Efficient Adaptive Carrier Tracking for Mars to Earth Communications During Entry, Descent and Landing. , 2007, , .		7
28	Scalar field estimation using adaptive networks. , 2012, , .		7
29	Adaptive Detection in Distributed Networks Using Maximum Likelihood Detector. IEEE Signal Processing Letters, 2018, 25, 974-978.	2.1	7
30	A robust affine projection algorithm with feedback compensation of the condition number. , 2009, , .		4
31	Towards spatially universal adaptive diffusion networks. , 2014, , .		4
32	An alternative criterion for regularization in Recursive Least-Squares problems. , 2010, , .		3
33	A data reusage algorithm based on incremental combination of LMS filters. , 2012, , .		3
34	Position estimation from range measurements using adaptive networks. , 2016, , .		3
35	Newton-like nonlinear adaptive filters via simple multilinear functionals. , 2016, , .		3
36	Order-adaptive frequency trackers for direct-to-Earth Mars communications. , 2009, , .		2

#	Article	IF	Citations
37	There's plenty of room at the bottom: Incremental combinations of sign-error LMS filters. , 2014, , .		2
38	Modeling Time of Arrival Probability Distribution and TDOA Bias in Acoustic Emission Testing. , 2018, , .		1
39	Adaptive IIR Diffusion Networks for IoT Applications. , 2021, , .		1
40	Optimal Passive Source Localization for Acoustic Emissions. Entropy, 2021, 23, 1585.	1.1	1
41	A Low-Complexity Map Detector for Distributed Networks. , 2020, , .		0
42	Exploring Undermodeling in Combinations of Adaptive Filters. , 2021, , .		0
43	Low Complexity Distributed Estimation for IoT Sensor Networks. , 2021, , .		0