List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Kalman Filtering and Expectation Maximization for Multitemporal Spectral Unmixing. IEEE Geoscience and Remote Sensing Letters, 2022, 19, 1-5.	1.4	9
2	Model-Based Deep Autoencoder Networks for Nonlinear Hyperspectral Unmixing. IEEE Geoscience and Remote Sensing Letters, 2022, 19, 1-5.	1.4	13
3	Graph Topology Inference With Derivative-Reproducing Property in RKHS: Algorithm and Convergence Analysis. IEEE Transactions on Signal and Information Processing Over Networks, 2022, 8, 78-91.	1.6	1
4	Hyperspectral Super-resolution Accounting for Spectral Variability: Coupled Tensor LL1-Based Recovery and Blind Unmixing of the Unknown Super-resolution Image. SIAM Journal on Imaging Sciences, 2022, 15, 110-138.	1.3	10
5	Deep Generative Models for Library Augmentation in Multiple Endmember Spectral Mixture Analysis. IEEE Geoscience and Remote Sensing Letters, 2021, 18, 1831-1835.	1.4	16
6	Fast Unmixing and Change Detection in Multitemporal Hyperspectral Data. IEEE Transactions on Computational Imaging, 2021, 7, 975-988.	2.6	10
7	Fight the Pandemic: Highlights From the 2020 IEEE 5-Minute Video Clip Contest [SP Competitions]. IEEE Signal Processing Magazine, 2021, 38, 138-143.	4.6	0
8	Coupled Tensor Decomposition for Hyperspectral and Multispectral Image Fusion With Inter-Image Variability. IEEE Journal on Selected Topics in Signal Processing, 2021, 15, 702-717.	7.3	34
9	A Homogeneity-Based Multiscale Hyperspectral Image Representation for Sparse Spectral Unmixing. , 2021, , .		3
10	Stochastic analysis of the diffusion LMS algorithm for cyclostationary white Gaussian inputs. Signal Processing, 2021, 185, 108081.	2.1	7
11	Stochastic analysis of the diffusion least mean square and normalized least mean square algorithms for cyclostationary white Gaussian and nonâ€ <scp>Gaussian</scp> inputs. International Journal of Adaptive Control and Signal Processing, 2021, 35, 2466-2486.	2.3	6
12	Online Graph-Based Change Point Detection in Multiband Image Sequences. , 2021, , .		3
13	Super-Resolution for Hyperspectral and Multispectral Image Fusion Accounting for Seasonal Spectral Variability. IEEE Transactions on Image Processing, 2020, 29, 116-127.	6.0	78
14	Deep Generative Endmember Modeling: An Application to Unsupervised Spectral Unmixing. IEEE Transactions on Computational Imaging, 2020, 6, 374-384.	2.6	68
15	A Blind Multiscale Spatial Regularization Framework for Kernel-Based Spectral Unmixing. IEEE Transactions on Image Processing, 2020, 29, 4965-4979.	6.0	17
16	A Data Dependent Multiscale Model for Hyperspectral Unmixing With Spectral Variability. IEEE Transactions on Image Processing, 2020, 29, 3638-3651.	6.0	29
17	Stochastic Analysis of the Recursive Least Squares Algorithm for Cyclostationary Colored Inputs. IEEE Transactions on Signal Processing, 2020, 68, 676-686.	3.2	11
18	Low-Rank Tensor Modeling for Hyperspectral Unmixing Accounting for Spectral Variability. IEEE Transactions on Geoscience and Remote Sensing, 2020, 58, 1833-1842.	2.7	43

#	Article	lF	CITATIONS
19	A switched variable step size NLMS adaptive filter. , 2020, 101, 102730.		22
20	Highlights From the Signal Processing Theory and Methods Technical Committee [In the Spotlight]. IEEE Signal Processing Magazine, 2020, 37, 102-104.	4.6	7
21	A New Adaptive Video Super-Resolution Algorithm With Improved Robustness to Innovations. IEEE Transactions on Image Processing, 2019, 28, 673-686.	6.0	12
22	Improved Hyperspectral Unmixing with Endmember Variability Parametrized Using an Interpolated Scaling Tensor. , 2019, , .		10
23	Stochastic analysis of the LMS algorithm for cyclostationary colored Gaussian and non-Gaussian inputs. , 2019, 88, 149-159.		9
24	Stochastic analysis of the LMS algorithm for cyclostationary colored Gaussian inputs. Signal Processing, 2019, 160, 127-136.	2.1	10
25	Non-Destructive Prediction of Pork Meat Degradation using a Stacked Autoencoder Classifier on Hyperspectral Images. , 2019, , .		0
26	A Fast Multiscale Spatial Regularization for Sparse Hyperspectral Unmixing. IEEE Geoscience and Remote Sensing Letters, 2019, 16, 598-602.	1.4	76
27	Stochastic analysis of soft limiters in the LMS algorithm for stationary white Gaussian inputs—A unified theory. Signal Processing, 2018, 142, 27-35.	2.1	4
28	An adaptive combination constrained proportionate normalized maximum correntropy criterion algorithm for sparse channel estimations. Eurasip Journal on Advances in Signal Processing, 2018, 2018, .	1.0	10
29	Generalized Linear Mixing Model Accounting for Endmember Variability. , 2018, , .		54
30	A Low-Rank Tensor Regularization Strategy for Hyperspectral Unmixing. , 2018, , .		18
31	Super-resolution reconstruction of electrical impedance tomography images. Computers and Electrical Engineering, 2018, 69, 1-13.	3.0	26
32	A New Decision-Theory-Based Framework for Echo Canceler Control. IEEE Transactions on Signal Processing, 2018, 66, 4304-4314.	3.2	2
33	Performance of soft limiters in the LMS algorithm for cyclostationary white Gaussian inputs. Signal Processing, 2018, 152, 197-205.	2.1	3
34	Stochastic Analysis of the LMS and NLMS Algorithms for Cyclostationary White Gaussian and Non-Gaussian Inputs. IEEE Transactions on Signal Processing, 2018, 66, 4753-4765.	3.2	29
35	Stochastic behavior analysis of the Gaussian KLMS algorithm for a correlated input signal. Signal Processing, 2018, 152, 286-291.	2.1	6
36	Band Selection for Nonlinear Unmixing of Hyperspectral Images as a Maximal Clique Problem. IEEE Transactions on Image Processing, 2017, 26, 2179-2191.	6.0	26

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37	A new adaptive video SRR algorithm with improved robustness to innovations. , 2017, , .		2
38	A new kernel Kalman filter algorithm for estimating time-varying nonlinear systems. , 2017, , .		1
39	A design methodology for the Gaussian KLMS algorithm. , 2017, , .		4
40	Reweighted nonnegative least-mean-square algorithm. Signal Processing, 2016, 128, 131-141.	2.1	18
41	A New Theoretical Model for the Pseudo Affine Projection Algorithm for Unity Step Size and Autoregressive Inputs. IEEE Transactions on Signal Processing, 2016, 64, 3591-3604.	3.2	2
42	Stochastic analysis of the Least Mean Kurtosis algorithm for Gaussian inputs. , 2016, 54, 35-45.		21
43	Stochastic behavior of the nonnegative least mean fourth algorithm for stationary Gaussian inputs and slow learning. Signal Processing, 2016, 128, 18-27.	2.1	6
44	Nonparametric Detection of Nonlinearly Mixed Pixels and Endmember Estimation in Hyperspectral Images. IEEE Transactions on Image Processing, 2016, 25, 1136-1151.	6.0	30
45	Stochastic Analysis of an Adaptive Line Enhancer/Canceler With a Cyclostationary Input. IEEE Transactions on Signal Processing, 2016, 64, 104-119.	3.2	25
46	Band selection in RKHS for fast nonlinear unmixing of hyperspectral images. , 2015, , .		9
47	Convergence analysis of the augmented complex klms algorithm with pre-tuned dictionary. , 2015, , .		8
48	Flux Balance Analysis with Objective Function Defined by Proteomics Data—Metabolism of Mycobacterium tuberculosis Exposed to Mefloquine. PLoS ONE, 2015, 10, e0134014.	1.1	21
49	Detection of nonlinear mixtures using Gaussian processes: Application to hyperspectral imaging. , 2014, , .		7
50	Convergence analysis of kernel LMS algorithm with pre-tuned dictionary. , 2014, , .		22
51	Nonlinear Unmixing of Hyperspectral Images: Models and Algorithms. IEEE Signal Processing Magazine, 2014, 31, 82-94.	4.6	362
52	Convex combinations of kernel adaptive filters. , 2014, , .		9
53	Stochastic analysis of the least mean fourth algorithm for non-stationary white Gaussian inputs. Signal, Image and Video Processing, 2014, 8, 133-142.	1.7	30
54	Steady-State Performance of Non-Negative Least-Mean-Square Algorithm and Its Variants. IEEE Signal Processing Letters, 2014, 21, 928-932.	2.1	24

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55	Variants of Non-Negative Least-Mean-Square Algorithm and Convergence Analysis. IEEE Transactions on Signal Processing, 2014, 62, 3990-4005.	3.2	33
56	Stochastic Analysis of the LMS and NLMS Algorithms for Cyclostationary White Gaussian Inputs. IEEE Transactions on Signal Processing, 2014, 62, 2238-2249.	3.2	54
57	Statistical Analysis of a Jointly Optimized Beamformer-Assisted Acoustic Echo Canceler. IEEE Transactions on Signal Processing, 2014, 62, 252-265.	3.2	9
58	Statistical analysis of jointly-optimized GSC implementations of beamformer-assisted acoustic echo cancelers. , 2014, , .		0
59	Region-Based Wavelet-Packet Adaptive Algorithm for Identification of Sparse Impulse Responses. IEEE Transactions on Signal Processing, 2013, 61, 3321-3333.	3.2	9
60	A robust test for nonlinear mixture detection in hyperspectral images. , 2013, , .		9
61	Statistical analysis of the jointly-optimized acoustic echo cancellation BF-AEC structure. , 2013, , .		2
62	Closed-form conditions for convergence of the Gaussian kernel-least-mean-square algorithm. , 2012, ,		8
63	Identification of sparse impulse responses – design and implementation using the partial Haar block wavelet transform. , 2012, 22, 1073-1084.		5
64	Stochastic Behavior Analysis of the Gaussian Kernel Least-Mean-Square Algorithm. IEEE Transactions on Signal Processing, 2012, 60, 2208-2222.	3.2	86
65	Transient Mean-Square Analysis of Prediction Error Method-Based Adaptive Feedback Cancellation in Hearing Aids. IEEE Transactions on Audio Speech and Language Processing, 2012, 20, 261-275.	3.8	10
66	A modified non-negative LMS algorithm and its stochastic behavior analysis. , 2011, , .		4
67	Stochastic analysis of the LMS algorithm for non-stationary white Gaussian inputs. , 2011, , .		12
68	Speech enhancement using a frame adaptive gain function for Wiener filtering. , 2011, , .		1
69	Nonnegative Least-Mean-Square Algorithm. IEEE Transactions on Signal Processing, 2011, 59, 5225-5235.	3.2	63
70	A composite hypothesis test for active weight detection in sparse system identification. , 2011, , .		1
71	Mean-square stability of the Normalized Least-Mean Fourth algorithm for white Gaussian inputs. , 2011, 21, 694-700.		26
72	Stochastic analysis of an error power ratio scheme applied to the affine combination of two LMS adaptive filters. Signal Processing, 2011, 91, 2615-2622.	2.1	9

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73	Stochastic behavior analysis of the Gaussian Kernel Least Mean Square algorithm. , 2011, , .		5
74	On the optimal solutions of beamformer assisted acoustic echo cancellers. , 2011, , .		2
75	Non-negative distributed regression for data inference in wireless sensor networks. , 2010, , .		5
76	A stochastic analysis of the NLMS algorithm implemented in finite precision. , 2010, , .		0
77	Mimetic wavelet-packet transform based adaptive algorithm for sparse response identification. , 2010, ,		0
78	A Decentralized Approach for Nonlinear Prediction of Time Series Data in Sensor Networks. Eurasip Journal on Wireless Communications and Networking, 2010, 2010, .	1.5	5
79	A stochastic model for the deficient order Affine Projection algorithm. , 2010, , .		1
80	Functional estimation in Hilbert space for distributed learning in wireless sensor networks. , 2009, , .		8
81	A Stochastic Model for a Pseudo Affine Projection Algorithm. IEEE Transactions on Signal Processing, 2009, 57, 107-118.	3.2	25
82	Echo Cancellation—The Generalized Likelihood Ratio Test For Double-Talk Versus Channel Change. IEEE Transactions on Signal Processing, 2009, 57, 916-926.	3.2	12
83	Online Prediction of Time Series Data With Kernels. IEEE Transactions on Signal Processing, 2009, 57, 1058-1067.	3.2	378
84	Registration Errors: Are They Always Bad for Super-Resolution?. IEEE Transactions on Signal Processing, 2009, 57, 3815-3826.	3.2	9
85	Design of high capacity 3D print codes aiming for robustness to the PS channel and external distortions. , 2009, , .		5
86	Design of high capacity 3D print codes with visual cues aiming for robustness to the PS channel and external distortions. , 2009, , .		5
87	An affine combination of two LMS adaptive filters - statistical analysis of an error power ratio scheme. , 2009, , .		0
88	A noise resilient variable step-size LMS algorithm. Signal Processing, 2008, 88, 733-748.	2.1	53
89	Statistical analysis of the LMS adaptive algorithm subjected to a symmetric dead-zone nonlinearity at the adaptive filter output. Signal Processing, 2008, 88, 1485-1495.	2.1	6
90	Informed Choice of the LMS Parameters in Super-Resolution Video Reconstruction Applications. IEEE Transactions on Signal Processing, 2008, 56, 555-564.	3.2	9

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91	Stochastic Analysis of the LMS Algorithm for System Identification With Subspace Inputs. IEEE Transactions on Signal Processing, 2008, 56, 1018-1027.	3.2	17
92	An Affine Combination of Two LMS Adaptive Filters—Transient Mean-Square Analysis. IEEE Transactions on Signal Processing, 2008, 56, 1853-1864.	3.2	126
93	An affine combination of two NLMS adaptive filters - Transient mean-square analysis. , 2008, , .		3
94	On performance bounds for an affine combination of two LMS adaptive filters. Proceedings of the IEEE International Conference on Acoustics, Speech, and Signal Processing, 2008, , .	1.8	5
95	Low-complexity robust sparse channel identification using partial block wavelet transforms-analysis and implementation. Proceedings of the IEEE International Conference on Acoustics, Speech, and Signal Processing, 2008, , .	1.8	3
96	Distributed prediction of time series data with kernels and adaptive filtering techniques in sensor networks. , 2008, , .		4
97	Statistical Analysis of the LMS Algorithm Applied to Super-Resolution Image Reconstruction. IEEE Transactions on Signal Processing, 2007, 55, 2084-2095.	3.2	28
98	On-line Nonlinear Sparse Approximation of Functions. , 2007, , .		32
99	Improving Robustness of CDM Spread Spectrumwatermarking. , 2007, , .		2
100	Are Registration Errors Always Bad for Super-Resolution?. , 2007, , .		3
101	Wavelet-Packet-Based Adaptive Algorithm for Sparse Impulse Response Identification. , 2007, , .		10
102	Analysis of LMS Algorithm Behavior with Subspace Inputs. , 2007, , .		1
103	A Mean-Square Stability Analysis of the Least Mean Fourth Adaptive Algorithm. IEEE Transactions on Signal Processing, 2007, 55, 4018-4028.	3.2	70
104	New analytical model for the filtered-x least mean squares algorithm verified through active noise control experiment. Mechanical Systems and Signal Processing, 2007, 21, 1839-1852.	4.4	8
105	Probability of divergence for the least-mean fourth algorithm. IEEE Transactions on Signal Processing, 2006, 54, 1376-1385.	3.2	49
106	On the Design of the LMS Algorithm for Robustness to Outliers in Super-Resolution Video Reconstruction. , 2006, , .		3
107	Statistical analysis of the FXLMS algorithm about the steady-state solution. , 2006, , .		2
108	A Statistical model for the warp matrix in super-resolution video reconstruction. , 2006, , .		2

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ARTICLE IF CITATIONS A new adaptive algorithm for reducing non-linear effects from saturation in active noise control 2.3 systems. International Journal of Adaptive Control and Signal Processing, 2005, 19, 177-196. Multi-bit informed embedding watermarking with constant robustness., 2005,,. 110 8 A statistical analysis of the affine projection algorithm for unity step size and autoregressive inputs. 0.1 IEEE Transactions on Circuits and Systems Part 1: Regular Papers, 2005, 52, 1394-1405. An improved statistical analysis of the least mean fourth (LMF) adaptive algorithm. IEEE Transactions 112 3.2 65 on Signal Processing, 2003, 51, 664-671. A fully analytical recursive stochastic model to the normalized signed regressor LMS algorithm. , 2003, , . The performance surface in filtered nonlinear mean-square estimation. IEEE Transactions on Circuits 114 0.1 2 and Systems Part 1: Regular Papers, 2003, 50, 445-447. An improved model for the Normalized LMS algorithm with Gaussian inputs and large number of 30 coefficients., 2002,,. Optimum leakage factor for the MOV-LMS algorithm in nonlinear modeling and control systems., 116 1 2002,,. Stochastic analysis of the filtered-X LMS algorithm in systems with nonlinear secondary paths. IEEE 3.2 Transactions on Signal Processing, 2002, 50, 1327-1342. The performance surface in nonlinear mean square estimation: application to active noise control 118 0.2 0 problems with correlated signals. Controle and Automacao, 2002, 13, 68-76. Stochastic analysis of the LMS algorithm with a saturation nonlinearity following the adaptive filter 119 3.2 output. IEEE Transactions on Signal Processing, 2001, 49, 1370-1387. Mean weight behavior of the filtered-X LMS algorithm. IEEE Transactions on Signal Processing, 2000, 120 3.2 101 48, 1061-1075. Non-Wiener behavior of the filtered LMS algorithm. IEEE Transactions on Circuits and Systems Part 2: 2.3 Express Briefs, 1999, 46, 1110-1113. Sinusoidal interference rejection analysis of an LMS adaptive feedforward controller with a noisy 122 3.2 19 periodic reference. IEEE Transactions on Signal Processing, 1998, 46, 1298-1313. Transient and tracking performance analysis of the quantized LMS algorithm for time-varying system 3.2 identification. IEEE Transactions on Signal Processing, 1996, 44, 1990-1997. New insights on the transient and steady-state behavior of the quantized LMS algorithm. IEEE 124 3.2 11 Transactions on Signal Processing, 1996, 44, 2623-2625. A nonlinear analytical model for the quantized LMS algorithm-the power-of-two step size case. IEEE 3.2 Transactions on Signal Processing, 1996, 44, 2895-2900.

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A nonlinear analytical model for the quantized LMS algorithm-the arbitrary step size case. IEEE 126 Transactions on Signal Processing, 1996, 44, 1175-1183.

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127	On the compensation of the (sin x)/x distortion in discrete-time to continuous-time signal conversions. IEEE Transactions on Circuits and Systems Part 1: Regular Papers, 1995, 42, 343-351.	0.1	2
128	Explicit formula for harmonic distortion in SC filters with weakly nonlinear capacitors. IET Circuits, Devices and Systems, 1994, 141, 505.	0.6	3
129	Correction of (sin x)/x distortion introduced by discrete-time/continuous-time signal conversion. Electronics Letters, 1988, 24, 1559.	0.5	6
130	Optimisation of parasitic insensitive switched capacitor biquads. IEE Proceedings, Part G: Electronic Circuits and Systems, 1987, 134, 265.	0.2	0
131	A systematic procedure for generation and design of parasitic insensitive SC biquads. IEEE Transactions on Circuits and Systems, 1985, 32, 767-783.	0.9	13
132	High frequency activeâ€ <i>R</i> filters. International Journal of Circuit Theory and Applications, 1983, 11, 33-45.	1.3	7
133	Parasitic insensitive toggle-switched capacitor and its applications to switched-capacitor networks. Electronics Letters, 1982, 18, 734.	0.5	2
134	Analysis of the quantization effects of LMS complex algorithm in digital adaptive filters. , 0, , .		0
135	Nonlinear quantization effects an the LMS algorithm-analytical models for the MSE transient and convergence behavior. , 0, , .		4
136	Mean weight behavior of the Filtered-X LMS algorithm. , 0, , .		13
137	An improved model for the second moment of the Filtered-X LMS algorithm. , 0, , .		13
138	Stochastic analysis of the delayed LMS algorithm for a new model. , 0, , .		5
139	Evaluation and design of variable step size adaptive algorithms. , 0, , .		11
140	An improved stochastic model for the least mean fourth (LMF) adaptive algorithm. , 0, , .		2
141	A New Analytical Model for the NLMS Algorithm. , 0, , .		7
142	When is the Least-Mean Fourth Algorithm Mean-Square Stable?. , 0, , .		6
143	Robust recursive least squares algorithm for automotive suspension identification. , 0, , .		0
144	The performance surface in nonlinear mean square estimation: application to the active noise control		1

problem., 0,,.