

Nithin George

List of Publications by Year in descending order

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85
papers

1,689
citations

361296
20
h-index

345118
36
g-index

85
all docs

85
docs citations

85
times ranked

907
citing authors

#	ARTICLE	IF	CITATIONS
1	Advances in active noise control: A survey, with emphasis on recent nonlinear techniques. Signal Processing, 2013, 93, 363-377.	2.1	139
2	Nonlinear system identification using a cuckoo search optimized adaptive Hammerstein model. Expert Systems With Applications, 2015, 42, 2538-2546.	4.4	109
3	A robust filtered-s LMS algorithm for nonlinear active noise control. Applied Acoustics, 2012, 73, 836-841.	1.7	82
4	Design of Adaptive Exponential Functional Link Network-Based Nonlinear Filters. IEEE Transactions on Circuits and Systems I: Regular Papers, 2016, 63, 1434-1442.	3.5	71
5	A Particle-Swarm-Optimization-Based Decentralized Nonlinear Active Noise Control System. IEEE Transactions on Instrumentation and Measurement, 2012, 61, 3378-3386.	2.4	69
6	On a cuckoo search optimization approach towards feedback system identification. , 2014, 32, 156-163.		68
7	Swarm and evolutionary computing algorithms for system identification and filter design: A comprehensive review. Swarm and Evolutionary Computation, 2017, 32, 68-84.	4.5	66
8	Convex combination of nonlinear adaptive filters for active noise control. Applied Acoustics, 2014, 76, 157-161.	1.7	58
9	KELM-CPPpred: Kernel Extreme Learning Machine Based Prediction Model for Cell-Penetrating Peptides. Journal of Proteome Research, 2018, 17, 3214-3222.	1.8	58
10	Robust and sparsity-aware adaptive filters: A Review. Signal Processing, 2021, 189, 108276.	2.1	43
11	On the development of adaptive hybrid active noise control system for effective mitigation of nonlinear noise. Signal Processing, 2012, 92, 509-516.	2.1	41
12	Robust active noise control: An information theoretic learning approach. Applied Acoustics, 2017, 117, 180-184.	1.7	38
13	Nonlinear active noise control using spline adaptive filters. Applied Acoustics, 2015, 93, 38-43.	1.7	37
14	An Improved S-Transform for Time-Frequency Analysis. , 2009, , .		35
15	Exponential Hyperbolic Cosine Robust Adaptive Filters for Audio Signal Processing. IEEE Signal Processing Letters, 2021, 28, 1410-1414.	2.1	35
16	Nearest Kronecker Product Decomposition Based Generalized Maximum Correntropy and Generalized Hyperbolic Secant Robust Adaptive Filters. IEEE Signal Processing Letters, 2020, 27, 1525-1529.	2.1	34
17	Corrosion monitoring in steel bars using Laser ultrasonic guided waves and advanced signal processing. Mechanical Systems and Signal Processing, 2021, 149, 107176.	4.4	34
18	Corrosion detection in steel bar: A time-frequency approach. NDT and E International, 2019, 107, 102150.	1.7	33

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19	Nearest Kronecker Product Decomposition Based Linear-in-The-Parameters Nonlinear Filters. IEEE/ACM Transactions on Audio Speech and Language Processing, 2021, 29, 2111-2122.	4.0	28
20	Joint Logarithmic Hyperbolic Cosine Robust Sparse Adaptive Algorithms. IEEE Transactions on Circuits and Systems II: Express Briefs, 2021, 68, 526-530.	2.2	25
21	Acoustic feedback cancellation in digital hearing aids: A sparse adaptive filtering approach. Applied Acoustics, 2017, 122, 138-145.	1.7	24
22	An Improved Proportionate Delayless Multiband-Structured Subband Adaptive Feedback Canceller for Digital Hearing Aids. IEEE/ACM Transactions on Audio Speech and Language Processing, 2017, 25, 1633-1643.	4.0	21
23	Active control of nonlinear noise processes using cascaded adaptive nonlinear filter. Applied Acoustics, 2013, 74, 217-222.	1.7	20
24	Compensating acoustic feedback in feed-forward active noise control systems using spline adaptive filters. Signal Processing, 2016, 120, 448-455.	2.1	20
25	Generalized spline nonlinear adaptive filters. Expert Systems With Applications, 2017, 83, 122-130.	4.4	19
26	Fast and efficient acoustic feedback cancellation based on low rank approximation. Signal Processing, 2021, 182, 107984.	2.1	19
27	A family of logarithmic hyperbolic cosine spline nonlinear adaptive filters. Applied Acoustics, 2021, 178, 107973.	1.7	19
28	A robust evolutionary feedforward active noise control system using Wilcoxon norm and particle swarm optimization algorithm. Expert Systems With Applications, 2012, 39, 7574-7580.	4.4	18
29	Multi-channel spline adaptive filters for non-linear active noise control. Applied Acoustics, 2020, 161, 107142.	1.7	18
30	Adaptive Modified Versoria Zero Attraction Least Mean Square Algorithms. IEEE Transactions on Circuits and Systems II: Express Briefs, 2020, 67, 3602-3606.	2.2	18
31	Modified Champernowne Function Based Robust and Sparsity-Aware Adaptive Filters. IEEE Transactions on Circuits and Systems II: Express Briefs, 2021, 68, 2202-2206.	2.2	18
32	Time Localised Band Filtering Using Modified S-Transform. , 2009, , .		16
33	Robust modeling of acoustic paths using a sparse adaptive algorithm. Applied Acoustics, 2016, 101, 122-126.	1.7	16
34	Efficient Shift-Add Implementation of FIR Filters Using Variable Partition Hybrid Form Structures. IEEE Transactions on Circuits and Systems I: Regular Papers, 2018, 65, 4247-4257.	3.5	15
35	Nearest Kronecker Product Decomposition Based Normalized Least Mean Square Algorithm. , 2020, , .		15
36	Nonlinear System Identification Using Exact and Approximate Improved Adaptive Exponential Functional Link Networks. IEEE Transactions on Circuits and Systems II: Express Briefs, 2020, 67, 3542-3546.	2.2	15

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37	Polynomial sparse adaptive algorithm. Electronics Letters, 2016, 52, 2063-2065.	0.5	14
38	Robust Constrained Generalized Correntropy and Maximum Versoria Criterion Adaptive Filters. IEEE Transactions on Circuits and Systems II: Express Briefs, 2021, 68, 3002-3006.	2.2	14
39	Polynomial Sparse Adaptive Estimation in Distributed Networks. IEEE Transactions on Circuits and Systems II: Express Briefs, 2018, 65, 401-405.	2.2	13
40	Convergence Analysis of Adaptive Exponential Functional Link Network. IEEE Transactions on Neural Networks and Learning Systems, 2021, 32, 882-891.	7.2	13
41	A generalized maximum correntropy criterion based robust sparse adaptive room equalization. Applied Acoustics, 2020, 158, 107036.	1.7	12
42	Identification of Glacial Isostatic Adjustment in Eastern Canada Using S Transform Filtering of GPS Observations. Pure and Applied Geophysics, 2012, 169, 1507-1517.	0.8	11
43	Fast Direction-of-Arrival Estimation via Coarray Interpolation Based on Truncated Nuclear Norm Regularization. IEEE Transactions on Circuits and Systems II: Express Briefs, 2021, 68, 1522-1526.	2.2	11
44	Two microphone acoustic feedback cancellation in digital hearing aids: A step size controlled frequency domain approach. Applied Acoustics, 2018, 132, 142-151.	1.7	10
45	Analysis and Design of Unified Architectures for Zero-Attraction-Based Sparse Adaptive Filters. IEEE Transactions on Very Large Scale Integration (VLSI) Systems, 2020, 28, 1321-1325.	2.1	10
46	Coarray MUSIC-Group Delay: High-Resolution Source Localization Using Non-Uniform Arrays. IEEE Transactions on Vehicular Technology, 2021, 70, 9597-9601.	3.9	10
47	Affine Projection Champernowne Algorithm for Robust Adaptive Filtering. IEEE Transactions on Circuits and Systems II: Express Briefs, 2022, 69, 1947-1951.	2.2	10
48	Generalized Modified Blake's Zisserman Robust Sparse Adaptive Filters. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2023, 53, 647-652.	5.9	10
49	Weibull M-transform least mean square algorithm. Applied Acoustics, 2020, 170, 107488.	1.7	9
50	Partial update even mirror fourier non-linear filters for active noise control. , 2015, , .		8
51	GPR Data Analysis of Weak Signals Using Modified S-Transform. Geotechnical and Geological Engineering, 2015, 33, 1167-1182.	0.8	8
52	Parameter estimation of MIMO bilinear systems using a Levy shuffled frog leaping algorithm. Soft Computing, 2017, 21, 3849-3858.	2.1	8
53	Modified Phase-Scheduled-Command FxLMS Algorithm for Active Sound Profiling. IEEE/ACM Transactions on Audio Speech and Language Processing, 2017, 25, 1799-1808.	4.0	8
54	An Analytical Framework and Approximation Strategy for Efficient Implementation of Distributed Arithmetic-Based Inner-Product Architectures. IEEE Transactions on Circuits and Systems I: Regular Papers, 2020, 67, 212-224.	3.5	8

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55	Design of Nonlinear Filters Using Affine Projection Algorithm Based Exact and Approximate Adaptive Exponential Functional Link Networks. IEEE Transactions on Circuits and Systems II: Express Briefs, 2020, 67, 2757-2761.	2.2	8
56	A Robust Family of Algorithms for Adaptive Filtering Based on the Arctangent Framework. IEEE Transactions on Circuits and Systems II: Express Briefs, 2022, 69, 1967-1971.	2.2	8
57	Design of dynamic linear-in-the-parameters nonlinear filters for active noise control. , 2016, , .		7
58	An adaptive background subtraction scheme for video surveillance systems. , 2017, , .		7
59	An Improved Constrained LMS Algorithm for Fast Adaptive Beamforming Based on a Low Rank Approximation. IEEE Transactions on Circuits and Systems II: Express Briefs, 2022, 69, 3605-3609.	2.2	7
60	Design of a krill herd algorithm based adaptive channel equalizer. , 2014, , .		6
61	Robust equalizer design for adaptive room impulse response compensation. Applied Acoustics, 2017, 125, 1-6.	1.7	6
62	Speech quality enhancement using a two channel sparse adaptive filtering approach. Applied Acoustics, 2020, 158, 107035.	1.7	6
63	Analysis and Design of Approximate Inner-Product Architectures Based on Distributed Arithmetic. , 2019, , .		5
64	A Reduced Complexity Random Fourier Filter Based Nonlinear Multichannel Narrowband Active Noise Control System. IEEE Transactions on Circuits and Systems II: Express Briefs, 2021, 68, 516-520.	2.2	5
65	Robust and Sparse Aware Diffusion Adaptive Algorithms for Distributed Estimation. IEEE Transactions on Circuits and Systems II: Express Briefs, 2022, 69, 239-243.	2.2	5
66	Underdetermined Direction-of-Arrival Estimation Using Sparse Circular Arrays on a Rotating Platform. IEEE Signal Processing Letters, 2021, 28, 862-866.	2.1	5
67	Development of a novel robust identification scheme for nonlinear dynamic systems. International Journal of Adaptive Control and Signal Processing, 2015, 29, 385-406.	2.3	4
68	Low Complexity and Robust Diffusion Affine Projection Algorithms for Distributed Estimation. IEEE Transactions on Circuits and Systems II: Express Briefs, 2022, 69, 1952-1956.	2.2	4
69	Development of low complexity evolutionary computing based nonlinear active noise control systems. , 2011, , .		3
70	Time frequency analysis: A sparse S transform approach. , 2016, , .		3
71	Design of hybrid nonlinear spline adaptive filters for active noise control. , 2016, , .		3
72	Collaborative adaptive exponential linear-in-the-parameters nonlinear filters. , 2017, , .		3

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73	Design of a class of zero attraction based sparse adaptive feedback cancellers for assistive listening devices. Applied Acoustics, 2021, 173, 107683.	1.7	3
74	Coarray Manifold Separation In The Spherical Harmonics Domain For Enhanced Source Localization. , 2022, , .		3
75	Online estimation of secondary path in active noise control systems using Generalized Levinson Durbin algorithm. , 2014, , .		2
76	On the development of a partial update multichannel nonlinear active noise control system. , 2013, , .		1
77	On the design of a sparse adaptive room equalizer. , 2015, , .		1
78	Online least angle regression algorithm for sparse system identification. , 2017, , .		1
79	A Levy Interior Search Algorithm for Chaotic System Identification. Advances in Intelligent Systems and Computing, 2015, , 137-147.	0.5	1
80	Dynamic Nonlinear Active Noise Control: A Multi-objective Evolutionary Computing Approach. Modeling and Optimization in Science and Technologies, 2020, , 421-439.	0.7	1
81	Improving convergence of nonlinear active noise control systems. , 2014, , .		0
82	A local variance approach to time frequency localization. , 2014, , .		0
83	An improved face recognition scheme using transform domain features. , 2014, , .		0
84	Improving convergence in finite word length nonlinear active noise control systems. , 2015, , .		0
85	Sparsity Aware Hybrid Adaptive Algorithms for Modeling Acoustic Paths. , 2018, , .		0