Shi-Yuan Wang

List of Publications by Year
in descending order

116 papers	1,557 citations	361296 20 h-index	395590 33 g-index
116 all docs	116 docs citations	116 times ranked	837 citing authors

#	Article	IF	Citations
1	Mixture correntropy for robust learning. Pattern Recognition, 2018, 79, 318-327.	5.1	120
2	Spherical Simplex-Radial Cubature Kalman Filter. IEEE Signal Processing Letters, 2014, 21, 43-46.	2.1	81
3	Logarithmic Hyperbolic Cosine Adaptive Filter and Its Performance Analysis. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2021, 51, 2512-2524.	5.9	63
4	Robust Power System State Estimation With Minimum Error Entropy Unscented Kalman Filter. IEEE Transactions on Instrumentation and Measurement, 2020, 69, 8797-8808.	2.4	59
5	Maximum total correntropy adaptive filtering against heavy-tailed noises. Signal Processing, 2017, 141, 84-95.	2.1	52
6	Random Fourier Filters Under Maximum Correntropy Criterion. IEEE Transactions on Circuits and Systems I: Regular Papers, 2018, 65, 3390-3403.	3.5	48
7	Robust least mean logarithmic square adaptive filtering algorithms. Journal of the Franklin Institute, 2019, 356, 654-674.	1.9	45
8	Quantized kernel maximum correntropy and its mean square convergence analysis. , 2017, 63, 164-176.		42
9	Kernel Kalman Filtering With Conditional Embedding and Maximum Correntropy Criterion. IEEE Transactions on Circuits and Systems I: Regular Papers, 2019, 66, 4265-4277.	3.5	41
10	Broad Learning System Based on Maximum Correntropy Criterion. IEEE Transactions on Neural Networks and Learning Systems, 2021, 32, 3083-3097.	7.2	39
11	A modified quantized kernel least mean square algorithm for prediction of chaotic time series. , 2016, 48, 130-136.		38
12	Kernel Least Mean Square with Single Feedback. IEEE Signal Processing Letters, 2015, 22, 953-957.	2.1	33
13	Generalized Complex Correntropy: Application to Adaptive Filtering of Complex Data. IEEE Access, 2018, 6, 19113-19120.	2.6	33
14	A Class of Stable Square-Root Nonlinear Information Filters. IEEE Transactions on Automatic Control, 2014, 59, 1893-1898.	3.6	31
15	Maximum Total Correntropy Diffusion Adaptation Over Networks With Noisy Links. IEEE Transactions on Circuits and Systems II: Express Briefs, 2019, 66, 307-311.	2.2	31
16	Kernel Affine Projection Sign Algorithms for Combating Impulse Interference. IEEE Transactions on Circuits and Systems II: Express Briefs, 2013, 60, 811-815.	2.2	29
17	Regularized Kernel Least Mean Square Algorithm with Multiple-delay Feedback. IEEE Signal Processing Letters, 2016, 23, 98-101.	2.1	27
18	Kernel Correntropy Conjugate Gradient Algorithms Based on Half-Quadratic Optimization. IEEE Transactions on Cybernetics, 2021, 51, 5497-5510.	6.2	27

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19	A Modified Variational Bayesian Noise Adaptive Kalman Filter. Circuits, Systems, and Signal Processing, 2017, 36, 4260-4277.	1.2	26
20	Convergence Analysis of a Fixed Point Algorithm Under Maximum Complex Correntropy Criterion. IEEE Signal Processing Letters, 2018, 25, 1830-1834.	2.1	25
21	A class of improved least sum of exponentials algorithms. Signal Processing, 2016, 128, 340-349.	2.1	23
22	Robust Normalized Least Mean Absolute Third Algorithms. IEEE Access, 2019, 7, 10318-10330.	2.6	21
23	Mixture Correntropy-Based Kernel Extreme Learning Machines. IEEE Transactions on Neural Networks and Learning Systems, 2022, 33, 811-825.	7.2	21
24	Analysis of the Characteristic of the Kalman Gain for 1-D Chaotic Maps in Cubature Kalman Filter. IEEE Signal Processing Letters, 2013, 20, 229-232.	2.1	20
25	Novel cubature Kalman filtering for systems involving nonlinear states and linear measurements. AEU - International Journal of Electronics and Communications, 2015, 69, 314-320.	1.7	20
26	The Online Random Fourier Features Conjugate Gradient Algorithm. IEEE Signal Processing Letters, 2019, 26, 740-744.	2.1	20
27	Maximum Total Complex Correntropy for Adaptive Filter. IEEE Transactions on Signal Processing, 2020, 68, 978-989.	3.2	20
28	Kernel Adaptive Filters With Feedback Based on Maximum Correntropy. IEEE Access, 2018, 6, 10540-10552.	2.6	19
29	Maximum correntropy adaptation approach for robust compressive sensing reconstruction. Information Sciences, 2019, 480, 381-402.	4.0	19
30	Robust Multikernel Maximum Correntropy Filters. IEEE Transactions on Circuits and Systems II: Express Briefs, 2020, 67, 1159-1163.	2.2	19
31	Convergence analysis of nonlinear Kalman filters with novel innovation-based method. Neurocomputing, 2018, 289, 188-194.	3.5	18
32	Bilateral similarity function: A novel and universal method for similarity analysis of biological sequences. Journal of Theoretical Biology, 2010, 265, 194-201.	0.8	16
33	Kernel Least Mean Square Based on the Nyström Method. Circuits, Systems, and Signal Processing, 2019, 38, 3133-3151.	1.2	16
34	Robust Cauchy Kernel Conjugate Gradient Algorithm for Non-Gaussian Noises. IEEE Signal Processing Letters, 2021, 28, 1011-1015.	2.1	16
35	A Class of Weighted Quantized Kernel Recursive Least Squares Algorithms. IEEE Transactions on Circuits and Systems II: Express Briefs, 2017, 64, 730-734.	2.2	15
36	Kernel recursive maximum correntropy with Nyström approximation. Neurocomputing, 2019, 329, 424-432.	3.5	15

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37	General Cauchy Conjugate Gradient Algorithms Based on Multiple Random Fourier Features. IEEE Transactions on Signal Processing, 2021, 69, 1859-1873.	3.2	15
38	Kernel Recursive Least Squares With Multiple Feedback and Its Convergence Analysis. IEEE Transactions on Circuits and Systems II: Express Briefs, 2017, 64, 1237-1241.	2.2	14
39	A Secure Distributed Information Sharing Algorithm Based on Attack Detection in Multi-Task Networks. IEEE Transactions on Circuits and Systems I: Regular Papers, 2020, 67, 5125-5138.	3.5	14
40	Mixture Complex Correntropy for Adaptive Filter. IEEE Transactions on Circuits and Systems II: Express Briefs, 2019, 66, 1476-1480.	2.2	13
41	Multikernel adaptive filtering based on random features approximation. Signal Processing, 2020, 176, 107712.	2.1	13
42	Applications of representation method for DNA sequences based on symbolic dynamics. Computational and Theoretical Chemistry, 2009, 909, 33-42.	1.5	12
43	Dynamic State Estimation of Power Systems by p -Norm Nonlinear Kalman Filter. IEEE Transactions on Circuits and Systems I: Regular Papers, 2020, 67, 1715-1728.	3.5	12
44	Robust State Estimation With Maximum Correntropy Rotating Geometric Unscented Kalman Filter. IEEE Transactions on Instrumentation and Measurement, 2022, 71, 1-14.	2.4	12
45	A Class of Nonlinear Kalman Filters Under a Generalized Measurement Model With False Data Injection Attacks. IEEE Signal Processing Letters, 2022, 29, 1187-1191.	2.1	12
46	Multikernel Adaptive Filters Under the Minimum Cauchy Kernel Loss Criterion. IEEE Access, 2019, 7, 120548-120558.	2.6	11
47	Recursive Constrained Maximum Correntropy Criterion Algorithm for Adaptive Filtering. IEEE Transactions on Circuits and Systems II: Express Briefs, 2020, 67, 2229-2233.	2.2	10
48	Complex-Valued Adaptive Filtering Based on the Random Fourier Features Method. IEEE Transactions on Circuits and Systems II: Express Briefs, 2020, 67, 2284-2288.	2.2	10
49	Bias-Compensated MCCC Algorithm for Widely Linear Adaptive Filtering With Noisy Data. IEEE Transactions on Circuits and Systems II: Express Briefs, 2020, 67, 3587-3591.	2.2	10
50	Kernel Recursive Least Squares Algorithm Based on the Nystr${m {{\ddot{f {o}}}}}$m Method With k-Means Sampling. IEEE Signal Processing Letters, 2020, 27, 361-365.	2.1	10
51	Complex Kernel Risk-Sensitive Loss: Application to Robust Adaptive Filtering in Complex Domain. IEEE Access, 2018, 6, 60329-60338.	2.6	9
52	Nyström Kernel Algorithm Under Generalized Maximum Correntropy Criterion. IEEE Signal Processing Letters, 2020, 27, 1535-1539.	2.1	8
53	Generalized Correntropy Sparse Gaussâ€"Hermite Quadrature Filter for Epidemic Tracking on Complex Networks. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2022, 52, 2770-2778.	5.9	8
54	Adaptive Filters With Robust Augmented Space Linear Model: A Weighted k-NN Method. IEEE Transactions on Signal Processing, 2021, 69, 6448-6461.	3.2	8

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55	Widely Linear Maximum Complex Correntropy Criterion Affine Projection Algorithm and Its Performance Analysis. IEEE Transactions on Signal Processing, 2022, 70, 3540-3550.	3.2	8
56	Kernel Online Learning Algorithm With Scale Adaptation. IEEE Transactions on Circuits and Systems II: Express Briefs, 2018, 65, 1788-1792.	2.2	7
57	Kernel Risk-Sensitive Mean p-Power Error Algorithms for Robust Learning. Entropy, 2019, 21, 588.	1.1	7
58	A Robust Adaptive Filter for a Complex Hammerstein System. Entropy, 2019, 21, 162.	1.1	7
59	Robust constrained minimum mixture kernel risk-sensitive loss algorithm for adaptive filtering. , 2020, 107, 102859.		7
60	Fixed-Point Maximum Total Complex Correntropy Algorithm for Adaptive Filter. IEEE Transactions on Signal Processing, 2021, 69, 2188-2202.	3.2	7
61	Robust Design for Spectral Sharing System Based on MI Maximization Under Direction Mismatch. IEEE Transactions on Vehicular Technology, 2022, 71, 6831-6836.	3.9	7
62	Huber–based Unscented Kalman Filters with the q –gradient. IET Science, Measurement and Technology, 2017, 11, 380-387.	0.9	6
63	Mixed-Degree Spherical Simplex-Radial Cubature Kalman Filter. Mathematical Problems in Engineering, 2017, 2017, 1-9.	0.6	6
64	Online sequential extreme learning machine algorithms based on maximum correntropy citerion. , 2017, , .		5
65	Minimum kernel risk sensitive mean p-power loss algorithms and their performance analysis. , 2020, 104, 102797.		5
66	The Nyström Kernel Conjugate Gradient Algorithm Based on k -Means Sampling. IEEE Access, 2020, 8, 18716-18726.	2.6	5
67	Complex multi-kernel random Fourier adaptive algorithms under the complex kernel risk-sensitive p-power loss. , 2021, 115, 103087.		5
68	Novel Simplex Kalman Filters. Circuits, Systems, and Signal Processing, 2017, 36, 879-893.	1.2	4
69	The Nyström minimum kernel risk-sensitive loss algorithm with k-means sampling. Journal of the Franklin Institute, 2020, 357, 10082-10099.	1.9	4
70	Complex Correntropy with Variable Center: Definition, Properties, and Application to Adaptive Filtering. Entropy, 2020, 22, 70.	1.1	4
71	Performance Comparison of Nonlinear Kalman Filters in Epidemic Tracking on Networks. IEEE Systems Journal, 2020, 14, 5475-5485.	2.9	4
72	Robust constrained maximum total correntropy algorithm. Signal Processing, 2021, 181, 107903.	2.1	4

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73	Complex Shannon Entropy Based Learning Algorithm and Its Applications. IEEE Transactions on Vehicular Technology, 2021, 70, 9673-9684.	3.9	4
74	Diffusion Distributed Quantized State Estimation With Variable Bandwidth. IEEE Transactions on Aerospace and Electronic Systems, 2022, 58, 406-419.	2.6	4
75	A noise reduction method for discrete chaotic signals and its application in communication. , 2011, , .		3
76	Simplified quantised kernel least mean square algorithm with fixed budget. Electronics Letters, 2016, 52, 1453-1455.	0.5	3
77	The Cauchy Conjugate Gradient Algorithm with Random Fourier Features. Symmetry, 2019, 11, 1323.	1.1	3
78	Recursive Minimum Kernel Mixture Mean p-Power Error Algorithm Based on the Nyström Method. IEEE Transactions on Circuits and Systems II: Express Briefs, 2020, 67, 2772-2776.	2.2	3
79	Robust variable normalization least mean p-power algorithm. Science China Information Sciences, 2020, 63, 1.	2.7	3
80	The diffusion least mean square algorithm with variable q-gradient. , 2022, 127, 103531.		3
81	A novel least Cauchy error algorithm and its kernel extension. , 2016, , .		2
82	Recursive Minimum Complex Kernel Risk-Sensitive Loss Algorithm. Entropy, 2018, 20, 902.	1.1	2
83	Correntropy Based Divided Difference Filtering for the Positioning of Ships. Sensors, 2018, 18, 4080.	2.1	2
84	Kernel least mean square algorithm with mixed kernel. , 2018, , .		2
85	The Kernel Recursive Generalized Cauchy Kernel Loss Algorithm. , 2019, , .		2
86	The Robust Kernel Conjugate Gradient Least Mean p-Power Algorithm*. , 2019, , .		2
87	An Efficient Nonlinear Dichotomous Coordinate Descent Adaptive Algorithm Based on Random Fourier Features. IEEE Signal Processing Letters, 2020, 27, 1804-1808.	2.1	2
88	Blind extraction of ECG signals based on similarity in the phase space. Chaos, Solitons and Fractals, 2021, 147, 110950.	2.5	2
89	Surrounding Dielectrics for Reducing Heating Concentrations of Spheres in Microwave Applicators With Moving Elements. IEEE Transactions on Microwave Theory and Techniques, 2021, 69, 4589-4598.	2.9	2
90	Quantised kernel least mean square algorithm with a learning vector strategy. Electronics Letters, 2020, 56, 1146-1147.	0.5	2

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91	LSPP: A Novel Path Planning Algorithm Based on Perceiving Line Segment Feature. IEEE Sensors Journal, 2022, 22, 720-731.	2.4	2
92	Complex-Valued Random Fourier Geometric Algebra Adaptive Filtering. IEEE Transactions on Circuits and Systems II: Express Briefs, 2022, 69, 2346-2350.	2.2	2
93	The Generalized HR q-Derivative and Its Application to Quaternion Least Mean Square Algorithm. IEEE Signal Processing Letters, 2022, 29, 857-861.	2.1	2
94	Joint Estimation of Target Range and Velocity for Radar System via Complex-Valued Kernel Quasi-Newton Method. IEEE Transactions on Instrumentation and Measurement, 2022, 71, 1-13.	2.4	2
95	Diffusion Recursive Minimum Error Entropy Algorithm. , 2022, , .		2
96	Particle Filtering for Noisy Contaminated Chaotic Signals and Its Application in Communications. , 2007, , .		1
97	A modified constrained stability-least mean square algorithm and its application in chaos communication. , 2012, , .		1
98	Convex combination of quantized kernel least mean square algorithm. , 2015, , .		1
99	Kernel least mean square with tracking. , 2017, , .		1
100	Online Sequential Extreme Learning Machine Algorithm Based on the Generalized Maximum Correntropy Criterion. , 2018, , .		1
101	The Nearest-Instance-Centroid-Estimation Kernel Recursive Least Squares Algorithms. IEEE Transactions on Circuits and Systems II: Express Briefs, 2020, 67, 1344-1348.	2.2	1
102	Kernel Least Mean Square Based on the Sparse Nyström Method. , 2020, , .		1
103	Robust adaptive filtering with variable risk–sensitive parameter and kernel width. Electronics Letters, 2020, 56, 791-793.	0.5	1
104	Combined multiple random features least mean square algorithm for online applications. IET Signal Processing, 0, , .	0.9	1
105	Smooth Deep Reinforcement Learning for Power Control for Spectrum Sharing in Cognitive Radios. IEEE Transactions on Wireless Communications, 2022, 21, 10621-10632.	6.1	1
106	Novel cubature Kalman filters based on mixed degrees. , 2015, , .		0
107	Spherical simplex-radial cubature information filter. , 2016, , .		0
108	Sparse Huber adaptive filter with correntropy induced metric penalty. , 2016, , .		0

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109	Bayesian random Fourier filters for Gaussian noises. Science China Information Sciences, 2018, 61, 1.	2.7	0
110	q-Gaussian Maximum Correntropy Adaptive Filter with Conjugate Gradient Method. , 2019, , .		0
111	Extended Random Fourier Features Recursive Non-quadratic Algorithm. , 2019, , .		0
112	The Nyström Kernel Adagrad Least Mean Square Algorithm Using k-means Sampling*. , 2021, , .		0
113	Robust Multi-kernel Generalized Maximum Correntropy Filters. , 2020, , .		0
114	Asymmetric Complex Correntropy for Robust Adaptive Filtering. Circuits, Systems, and Signal Processing, 0, , 1.	1.2	0
115	Random Fourier Features Based Kernel Risk Sensitive Loss Algorithm with Adaptive Moment Estimation Optimization Technology. , 2022, , .		0
116	The Establishment and Application of a Micro-expression Dataset with EEG Signals. , 2022, , .		0