

Yonggang Zhang

List of Publications by Year in descending order

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papers

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120
all docs

120
docs citations

120
times ranked

1493
citing authors

#	ARTICLE	IF	CITATIONS
1	A Novel Robust Kalman Filtering Framework Based on Normal-Skew Mixture Distribution. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2022, 52, 6789-6805.	9.3	16
2	Stability in self-injection locking of the DFB laser through a fiber optic resonator. Optics Communications, 2022, 505, 127531.	2.1	8
3	A Computationally Efficient Outlier-Robust Cubature Kalman Filter for Underwater Gravity Matching Navigation. IEEE Transactions on Instrumentation and Measurement, 2022, 71, 1-18.	4.7	15
4	Cubature Kalman Filter Under Minimum Error Entropy With Fiducial Points for INS/GPS Integration. IEEE/CAA Journal of Automatica Sinica, 2022, 9, 450-465.	13.1	22
5	Optimal False Data Injection Attacks on MTC. IEEE Transactions on Vehicular Technology, 2022, 71, 3372-3376.	6.3	1
6	A novel multiple-outlier-robust Kalman filter. Frontiers of Information Technology and Electronic Engineering, 2022, 23, 422-437.	2.6	10
7	An Outlier-Robust Kalman Filter With Adaptive Selection of Elliptically Contoured Distributions. IEEE Transactions on Signal Processing, 2022, 70, 994-1009.	5.3	19
8	A Lie Group Manifold-Based Nonlinear Estimation Algorithm and Its Application to Low-Accuracy SINS/GNSS Integrated Navigation. IEEE Transactions on Instrumentation and Measurement, 2022, 71, 1-27.	4.7	18
9	Multi-kernel correntropy based extended Kalman filtering for state-of-charge estimation. ISA Transactions, 2022, 129, 271-283.	5.7	5
10	Statistical Similarity Measure-Based Adaptive Outlier-Robust State Estimator With Applications. IEEE Transactions on Automatic Control, 2022, 67, 4354-4361.	5.7	17
11	Resonant Optical Gyroscope Based on All-Optical Frequency Locking. IEEE Transactions on Instrumentation and Measurement, 2022, 71, 1-4.	4.7	3
12	Maximum Correntropy Rauch-Tung-Striebel Smoother for Nonlinear and Non-Gaussian Systems. IEEE Transactions on Automatic Control, 2021, 66, 1270-1277.	5.7	32
13	A Novel Robust Step Detection Algorithm for Foot-Mounted IMU. IEEE Sensors Journal, 2021, 21, 5331-5339.	4.7	12
14	A Novel Outlier-Robust Kalman Filtering Framework Based on Statistical Similarity Measure. IEEE Transactions on Automatic Control, 2021, 66, 2677-2692.	5.7	68
15	Distributed maximum correntropy linear and nonlinear filters for systems with non-Gaussian noises. Signal Processing, 2021, 182, 107937.	3.7	14
16	A Novel Heavy-Tailed Mixture Distribution Based Robust Kalman Filter for Cooperative Localization. IEEE Transactions on Industrial Informatics, 2021, 17, 3671-3681.	11.3	49
17	A Position Loci-Based In-Motion Initial Alignment Method for Low-Cost Attitude and Heading Reference System. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-18.	4.7	14
18	Single-Channel Control for Hemispherical Resonator Gyro Based on Time Division Multiplexing and Demultiplexing. IEEE Sensors Journal, 2021, 21, 21342-21348.	4.7	4

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19	A New Kalman Filter-Based In-Motion Initial Alignment Method for DVL-Aided Low-Cost SINS. IEEE Transactions on Vehicular Technology, 2021, 70, 331-343.	6.3	36
20	A robust fixed-interval smoother for nonlinear systems with non-stationary heavy-tailed state and measurement noises. Signal Processing, 2021, 180, 107898.	3.7	21
21	Variational Adaptive Kalman Filter With Gaussian-Inverse-Wishart Mixture Distribution. IEEE Transactions on Automatic Control, 2021, 66, 1786-1793.	5.7	37
22	An Improved Variational Adaptive Kalman Filter for Cooperative Localization. IEEE Sensors Journal, 2021, 21, 10775-10786.	4.7	27
23	A novel secure diffusion Kalman filter algorithm against false data injection attacks. IET Communications, 2021, 15, 2028-2035.	2.2	0
24	Isolation, identification, and resistance gene detection of <i>Vibrio harveyi</i> from <i>Scophthalmus maximus</i> . Aquaculture International, 2021, 29, 2357-2368.	2.2	5
25	Adaptive Recursive Decentralized Cooperative Localization for Multirobot Systems With Time-Varying Measurement Accuracy. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-25.	4.7	14
26	Robust Student's t -based Rauch-Tung-Striebel Smoother for Non-stationary Heavy-tailed Measurement Noises. , 2021, , .		2
27	Robust Elliptically Contoured Distribution Based Kalman Filter for INS/DVL Integrated Navigation. , 2021, , .		2
28	An Improved Unified Transfer Alignment for MEMS-based SINS. , 2021, , .		0
29	Estimation Performance of Cyber-Physical Systems Attacked by False Data Injection. , 2021, , .		0
30	Robust Rauch-Tung-Striebel Smoothing Framework for Heavy-Tailed and/or Skew Noises. IEEE Transactions on Aerospace and Electronic Systems, 2020, 56, 415-441.	4.7	35
31	A Novel Progressive Gaussian Approximate Filter for Tightly Coupled GNSS/INS Integration. IEEE Transactions on Instrumentation and Measurement, 2020, 69, 3493-3505.	4.7	28
32	Variational Bayesian IMM-Filter for JMSs With Unknown Noise Covariances. IEEE Transactions on Aerospace and Electronic Systems, 2020, 56, 1652-1661.	4.7	29
33	An Improved Kalman Filter With Adaptive Estimate of Latency Probability. IEEE Transactions on Circuits and Systems II: Express Briefs, 2020, 67, 2259-2263.	3.0	16
34	A Novel Mixture Distributions-Based Robust Kalman Filter for Cooperative Localization. IEEE Sensors Journal, 2020, 20, 14994-15006.	4.7	21
35	A Slide Window Variational Adaptive Kalman Filter. IEEE Transactions on Circuits and Systems II: Express Briefs, 2020, 67, 3552-3556.	3.0	39
36	A High-Accuracy GPS-Aided Coarse Alignment Method for MEMS-Based SINS. IEEE Transactions on Instrumentation and Measurement, 2020, 69, 7914-7932.	4.7	41

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37	A New Robust Kalman Filter With Adaptive Estimate of Time-Varying Measurement Bias. IEEE Signal Processing Letters, 2020, 27, 700-704.	3.6	25
38	A Computationally Efficient Variational Adaptive Kalman Filter for Transfer Alignment. IEEE Sensors Journal, 2020, 20, 13682-13693.	4.7	20
39	A novel robust Student's t-based Gaussian approximate filter with one-step randomly delayed measurements. Signal Processing, 2020, 171, 107496.	3.7	16
40	Resonant micro-optical gyro based on self-injection locking. Optics Express, 2020, 28, 32907.	3.4	25
41	A Novel Robust Kalman Filter With Non-stationary Heavy-tailed Measurement Noise. IFAC-PapersOnLine, 2020, 53, 368-373.	0.9	11
42	A Novel Progressive Gaussian Approximate Filter with Variable Step Size Based on a Variational Bayesian Approach. , 2019, , .		1
43	A Novel Deformation Estimation Method Based On Robust Student's t Kalman Filter. , 2019, , .		1
44	A Novel Adaptive Kalman Filter With Unknown Probability of Measurement Loss. IEEE Signal Processing Letters, 2019, 26, 1862-1866.	3.6	37
45	Algorithm optimization of Er-doped Superfluorescent Fiber Source Feedback Control Module. , 2019, , .		0
46	A New Underwater All Source Positioning and Navigation(ASPN) Algorithm Based on Factor Graph. , 2019, , .		11
47	A Novel Kullback-Leibler Divergence Minimization-Based Adaptive Student's t-Filter. IEEE Transactions on Signal Processing, 2019, 67, 5417-5432.	5.3	87
48	A New Robust Kalman Filter for SINS/DVL Integrated Navigation System. IEEE Access, 2019, 7, 51386-51395.	4.2	33
49	A Novel Robust Gaussian Student's t Mixture Distribution Based Kalman Filter. IEEE Transactions on Signal Processing, 2019, 67, 3606-3620.	5.3	161
50	Iterated maximum correntropy unscented Kalman filters for non-Gaussian systems. Signal Processing, 2019, 163, 87-94.	3.7	53
51	An Improved SINS Alignment Method Based on Adaptive Cubature Kalman Filter. Sensors, 2019, 19, 5509.	3.8	7
52	Robust Kalman Filters Based on Gaussian Scale Mixture Distributions With Application to Target Tracking. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2019, 49, 2082-2096.	9.3	133
53	A Novel Adaptive Kalman Filter With Inaccurate Process and Measurement Noise Covariance Matrices. IEEE Transactions on Automatic Control, 2018, 63, 594-601.	5.7	405
54	A New Adaptive Extended Kalman Filter for Cooperative Localization. IEEE Transactions on Aerospace and Electronic Systems, 2018, 54, 353-368.	4.7	188

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55	Coordinate-Descent Diffusion Learning by Networked Agents. IEEE Transactions on Signal Processing, 2018, 66, 352-367.	5.3	13
56	Diffusion nonlinear Kalman filter with intermittent observations. Proceedings of the Institution of Mechanical Engineers, Part G: Journal of Aerospace Engineering, 2018, 232, 2775-2783.	1.3	13
57	Design of High-Degree Student's t-Based Cubature Filters. Circuits, Systems, and Signal Processing, 2018, 37, 2206-2225.	2.0	13
58	An event based multi-sensor fusion algorithm with deadzone like measurements. Information Fusion, 2018, 42, 111-118.	19.1	17
59	A New Robust Student's t Based SINS/GPS Integrated Navigation Method. , 2018, , .		1
60	A Novel Adaptive Kalman Filter With Colored Measurement Noise. IEEE Access, 2018, 6, 74569-74578.	4.2	24
61	A Maximum Correntropy Divided Difference Filter for Cooperative Localization. IEEE Access, 2018, 6, 41720-41727.	4.2	23
62	An Improved Coarse Alignment Algorithm for Odometer-Aided SINS Based on the Optimization Design Method. Sensors, 2018, 18, 195.	3.8	15
63	Maximum Correntropy Based Unscented Particle Filter for Cooperative Navigation with Heavy-Tailed Measurement Noises. Sensors, 2018, 18, 3183.	3.8	16
64	A Novel Robust Rauch-Tung-Striebel Smoother Based on Slash and Generalized Hyperbolic Skew Student's T-Distributions. , 2018, , .		6
65	Hybrid consensus sigma point approximation nonlinear filter using statistical linearization. Transactions of the Institute of Measurement and Control, 2018, 40, 2517-2525.	1.7	16
66	A New Fast In-Motion Coarse Alignment Method for GPS-Aided Low-Cost SINS. IEEE/ASME Transactions on Mechatronics, 2018, 23, 1303-1313.	5.8	50
67	Adaptive Maximum Correntropy Gaussian Filter Based on Variational Bayes. Sensors, 2018, 18, 1960.	3.8	17
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73	Model-based diagnosis of incomplete discrete-event system with rough set theory. Science China Information Sciences, 2017, 60, 1.	4.3	3
74	Robust Student's t-Based Stochastic Cubature Filter for Nonlinear Systems With Heavy-Tailed Process and Measurement Noises. IEEE Access, 2017, 5, 7964-7974.	4.2	60
75	A New Outlier-Robust Student's t Based Gaussian Approximate Filter for Cooperative Localization. IEEE/ASME Transactions on Mechatronics, 2017, 22, 2380-2386.	5.8	126
76	A New Process Uncertainty Robust Student's t Based Kalman Filter for SINS/GPS Integration. IEEE Access, 2017, 5, 14391-14404.	4.2	66
77	Maximum correntropy unscented Kalman and information filters for non-Gaussian measurement noise. Journal of the Franklin Institute, 2017, 354, 8659-8677.	3.4	124
78	Diffusion distributed Kalman filter over sensor networks without exchanging raw measurements. Signal Processing, 2017, 132, 1-7.	3.7	54
79	An Effective Tap-Length NLMS Algorithm for Network Echo Cancellers. Circuits, Systems, and Signal Processing, 2017, 36, 1686-1699.	2.0	3
80	An NLMS Algorithm with Tap-Selection Matrix for Sparse System Identification. Circuits, Systems, and Signal Processing, 2017, 36, 2486-2498.	2.0	5
81	Coordinate-descent adaptation over networks. , 2017, , .		1
82	A reweighted zero-attracting/repelling LMS algorithm for sparse system identification. , 2017, , .		1
83	Partial diffusion Kalman filter for communication bandwidth constraints. , 2017, , .		1
84	Kalman-Filtering-Based In-Motion Coarse Alignment for Odometer-Aided SINS. IEEE Transactions on Instrumentation and Measurement, 2017, 66, 3364-3377.	4.7	88
85	Modeling for IFOG Vibration Error Based on the Strain Distribution of Quadrupolar Fiber Coil. Sensors, 2016, 16, 1131.	3.8	10
86	Particle smoother for nonlinear systems with colored measurement noises. , 2016, , .		1
87	A simplified FOG output error model based on thermal diffusion. , 2016, , .		0
88	Robust student's t based nonlinear filter and smoother. IEEE Transactions on Aerospace and Electronic Systems, 2016, 52, 2586-2596.	4.7	158
89	A robust Gaussian approximate filter for nonlinear systems with heavy tailed measurement noises. , 2016, , .		43
90	Gaussian approximate filter for stochastic dynamic systems with randomly delayed measurements and colored measurement noises. Science China Information Sciences, 2016, 59, 1.	4.3	12

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91	Latency probability estimation of nonlinear systems with one-step randomly delayed measurements. IET Control Theory and Applications, 2016, 10, 843-852.	2.1	19
92	An improved nonlinear Kalman filter with recursive measurement update. , 2016, , .		0
93	Scale factor error compensation of FOG based on fractional tap-length LMS method. , 2016, , .		1
94	Design of Gaussian Approximate Filter and Smoother for Nonlinear Systems with Correlated Noises at One Epoch Apart. Circuits, Systems, and Signal Processing, 2016, 35, 3981-4008.	2.0	19
95	A Robust Gaussian Approximate Fixed-Interval Smoother for Nonlinear Systems With Heavy-Tailed Process and Measurement Noises. IEEE Signal Processing Letters, 2016, 23, 468-472.	3.6	91
96	A new conditional posterior Cram�r-Rao lower bound for a class of nonlinear systems. International Journal of Systems Science, 2016, 47, 3206-3218.	5.5	4
97	Particle filter with one-step randomly delayed measurements and unknown latency probability. International Journal of Systems Science, 2016, 47, 209-221.	5.5	27
98	Design of Sigma-Point Kalman Filter with Recursive Updated Measurement. Circuits, Systems, and Signal Processing, 2016, 35, 1767-1782.	2.0	26
99	Gaussian approximate filter with progressive measurement update. , 2015, , .		7
100	Interpolatory cubature Kalman filters. IET Control Theory and Applications, 2015, 9, 1731-1739.	2.1	50
101	Particle filter for nonlinear systems with multiple step randomly delayed measurements. Electronics Letters, 2015, 51, 1859-1861.	1.0	19
102	Gaussian filter for nonlinear systems with correlated noises at the same epoch. Automatica, 2015, 60, 122-126.	5.0	41
103	Embedded cubature Kalman filter with adaptive setting of free parameter. Signal Processing, 2015, 114, 112-116.	3.7	55
104	A New LMS Algorithm With Adaptive Zero Attractor. IEEE Communications Letters, 2015, 19, 2150-2153.	4.1	26
105	A Spatial Diffusion Strategy for Tap-Length Estimation Over Adaptive Networks. IEEE Transactions on Signal Processing, 2015, 63, 4487-4501.	5.3	5
106	Theoretical model and experimental verification of thermal strain distribution in quadrupolar fibre coil. Electronics Letters, 2014, 50, 1382-1384.	1.0	3
107	Seventh-degree spherical simplex-radial cubature Kalman filter. , 2014, , .		6
108	Modeling of Thermal-Induced Rate Error for FOG With Temperature Ranging From -40 �C to 60 �C. IEEE Photonics Technology Letters, 2014, 26, 18-21.	2.5	27

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109	A Strong Tracking Square Root CKF Algorithm Based on Multiple Fading Factors for Target Tracking. , 2014, , .		4
110	Analysis of shock error in fiber optic gyroscope induced by underwater explosion. , 2014, , .		0
111	Moving state marine SINS initial alignment based on transformed cubature Kalman filter. , 2014, , .		2
112	Analysis of a highly birefringent photonic crystal fiber with ellipseâ€‘rhombus air core. Optik, 2014, 125, 6266-6269.	2.9	7
113	SINS initial alignment based on fifth-degree Cubature Kalman Filter. , 2013, , .		6
114	Fiber optic gyroscope vibration error due to fiber tail length asymmetry based on elastic-optic effect. Optical Engineering, 2012, 51, 124403.	1.0	22
115	Exploiting all combinations of microphone sensors in overdetermined frequency domain blind separation of speech signals. International Journal of Adaptive Control and Signal Processing, 2011, 25, 88-94.	4.1	15
116	Modeling and Simulation analysis of a new Photonic crystal fiber. , 2010, , .		0
117	Hybrid consensus sigma point approximation nonlinear filter using statistical linearization. Transactions of the Institute of Measurement and Control, 0, , 014233121669175.	1.7	6
118	A Multimodal Solution to Blind Source Separation of Moving Sources. , 0, , 107-125.		0