Yulong Huang

List of Publications by Year
in descending order

91 papers	4,036 citations	101543 36 h-index	123424 61 g-index
92 all docs	92 docs citations	92 times ranked	1489 citing authors

#	Article	IF	Citations
1	SE(n)++: An Efficient Solution to Multiple Pose Estimation Problems. IEEE Transactions on Cybernetics, 2022, 52, 3829-3840.	9.5	3
2	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
3	Inertial-Based Integration With Transformed INS Mechanization in Earth Frame. IEEE/ASME Transactions on Mechatronics, 2022, 27, 1738-1749.	5.8	32
4	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
5	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
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	A New Robust Adaptive Filter Aided by Machine Learning Method for SINS/DVL Integrated Navigation System. Sensors, 2022, 22, 3792.	3.8	0
11	Statistical Similarity Measure-Based Adaptive Outlier-Robust State Estimator With Applications. IEEE Transactions on Automatic Control, 2022, 67, 4354-4361.	5.7	17
12	A SINS/GNSS/VDM Integrated Navigation Fault-Tolerant Mechanism Based on Adaptive Information Sharing Factor. IEEE Transactions on Instrumentation and Measurement, 2022, 71, 1-13.	4.7	9
13	A Novel Outlier-Robust Kalman Filtering Framework Based on Statistical Similarity Measure. IEEE Transactions on Automatic Control, 2021, 66, 2677-2692.	5.7	68
14	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
15	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
16	Trust-Region Solver of A Nonlinear Magnetometer Disturbance Estimation Problem. IEEE Sensors Journal, 2021, , 1-1.	4.7	0
17	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
18	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

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19	Variational Adaptive Kalman Filter With Gaussian-Inverse-Wishart Mixture Distribution. IEEE Transactions on Automatic Control, 2021, 66, 1786-1793.	5.7	37
20	An Improved Variational Adaptive Kalman Filter for Cooperative Localization. IEEE Sensors Journal, 2021, 21, 10775-10786.	4.7	27
21	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
22	Schmidt ST-EKF for Autonomous Land Vehicle SINS/ODO/LDV Integrated Navigation. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-9.	4.7	14
23	Robust Student's t-based Rauch-Tung-Striebel Smoother for Non-stationary Heavy-tailed Measurement Noises. , 2021, , .		2
24	Robust Elliptically Contoured Distribution Based Kalman Filter for INS/DVL Integrated Navigation. , 2021, , .		2
25	Adaptive Robust Nonlinear Filtering for Spacecraft Attitude Estimation Based on Additive Quaternion. IEEE Transactions on Instrumentation and Measurement, 2020, 69, 100-108.	4.7	25
26	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
27	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
28	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
29	Robust Localization Using IMM Filter Based on Skew Gaussian-Gamma Mixture Distribution in Mixed LOS/NLOS Condition. IEEE Transactions on Instrumentation and Measurement, 2020, 69, 5166-5182.	4.7	19
30	A Novel Mixture Distributions-Based Robust Kalman Filter for Cooperative Localization. IEEE Sensors Journal, 2020, 20, 14994-15006.	4.7	21
31	Corrections to "Outlier-Robust Student's-t-Based IMM-VB Localization for Manned Aircraft Using TDOA Measurements"·[Jun 20 1646-1658]. IEEE/ASME Transactions on Mechatronics, 2020, 25, 2139-2139.	5.8	0
32	A Slide Window Variational Adaptive Kalman Filter. IEEE Transactions on Circuits and Systems II: Express Briefs, 2020, 67, 3552-3556.	3.0	39
33	Outlier-Robust Student's-t-Based IMM-VB Localization for Manned Aircraft Using TDOA Measurements. IEEE/ASME Transactions on Mechatronics, 2020, 25, 1646-1658.	5.8	20
34	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
35	A New Robust Kalman Filter With Adaptive Estimate of Time-Varying Measurement Bias. IEEE Signal Processing Letters, 2020, 27, 700-704.	3.6	25
36	A Computationally Efficient Variational Adaptive Kalman Filter for Transfer Alignment. IEEE Sensors Journal, 2020, 20, 13682-13693.	4.7	20

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37	A Novel Robust Kalman Filter With Non-stationary Heavy-tailed Measurement Noise. IFAC-PapersOnLine, 2020, 53, 368-373.	0.9	11
38	A Novel Progressive Gaussian Approximate Filter with Variable Step Size Based on a Variational Bayesian Approach. , 2019, , .		1
39	A Novel Adaptive Kalman Filter With Unknown Probability of Measurement Loss. IEEE Signal Processing Letters, 2019, 26, 1862-1866.	3.6	37
40	A Novel Kullbackâ€"Leibler Divergence Minimization-Based Adaptive Student's t-Filter. IEEE Transactions on Signal Processing, 2019, 67, 5417-5432.	5.3	87
41	A Novel Robust Gaussianâ€"Student's <i>t</i> Mixture Distribution Based Kalman Filter. IEEE Transactions on Signal Processing, 2019, 67, 3606-3620.	5.3	161
42	Strapdown Inertial Navigation System Initial Alignment Based on Modified Process Model. IEEE Sensors Journal, 2019, 19, 6381-6391.	4.7	34
43	A New Adaptive Kalman Filter with Inaccurate Noise Statistics. Circuits, Systems, and Signal Processing, 2019, 38, 4380-4404.	2.0	26
44	MIMO Radar and MIMO Communication Spectrum Sharing with Interference Mitigation. , 2019, , .		0
45	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
46	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
47	A New Adaptive Extended Kalman Filter for Cooperative Localization. IEEE Transactions on Aerospace and Electronic Systems, 2018, 54, 353-368.	4.7	188
48	Huber-Based Adaptive Unscented Kalman Filter with Non-Gaussian Measurement Noise. Circuits, Systems, and Signal Processing, 2018, 37, 3842-3861.	2.0	27
49	Design of High-Degree Studentâ€™s t-Based Cubature Filters. Circuits, Systems, and Signal Processing, 2018, 37, 2206-2225.	2.0	13
50	Robust adaptive beamforming for multiple-input multiple-output radar with spatial filtering techniques. Signal Processing, 2018, 143, 152-160.	3.7	44
51	A New Robust Student's t Based SINS/GPS Integrated Navigation Method. , 2018, , .		1
52	A Novel Robust Rauch-Tung-Striebel Smoother Based on Slash and Generalized Hyperbolic Skew Student's T-Distributions. , 2018, , .		6
53	Robust Initial Attitude Alignment for SINS/DVL. IEEE/ASME Transactions on Mechatronics, 2018, 23, 2016-2021.	5.8	37
54	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

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55	A Novel Robust Student's <italic>t</italic>-Based Kalman Filter. IEEE Transactions on Aerospace and Electronic Systems, 2017, 53, 1545-1554.	4.7	281
56	A Novel Autonomous Initial Alignment Method for Strapdown Inertial Navigation System. IEEE Transactions on Instrumentation and Measurement, 2017, 66, 2274-2282.	4.7	49
57	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
58	In-Motion Initial Alignment for Odometer-Aided Strapdown Inertial Navigation System Based on Attitude Estimation. IEEE Sensors Journal, 2017, 17, 766-773.	4.7	69
59	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
60	A New Process Uncertainty Robust Student's t Based Kalman Filter for SINS/GPS Integration. IEEE Access, 2017, 5, 14391-14404.	4.2	66
61	Initial Alignment for a Doppler Velocity Log-Aided Strapdown Inertial Navigation System With Limited Information. IEEE/ASME Transactions on Mechatronics, 2017, 22, 329-338.	5.8	96
62	Kalman-Filtering-Based In-Motion Coarse Alignment for Odometer-Aided SINS. IEEE Transactions on Instrumentation and Measurement, 2017, 66, 3364-3377.	4.7	88
63	Particle smoother for nonlinear systems with colored measurement noises. , 2016, , .		1
64	Robust student's t based nonlinear filter and smoother. IEEE Transactions on Aerospace and Electronic Systems, 2016, 52, 2586-2596.	4.7	158
65	A robust Gaussian approximate filter for nonlinear systems with heavy tailed measurement noises. , 2016, , .		43
66	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
67	Noise suppression of fiber optic gyroscope based on variable tap-length adaptive filter. , 2016, , .		0
68	Latency probability estimation of non-linear systems with one-step randomly delayed measurements. IET Control Theory and Applications, 2016, 10, 843-852.	2.1	19
69	Optimization-based alignment for strapdown inertial navigation system: comparison and extension. IEEE Transactions on Aerospace and Electronic Systems, 2016, 52, 1697-1713.	4.7	68
70	An improved nonlinear Kalman filter with recursive measurement update. , 2016, , .		0
71	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
72	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

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73	A new conditional posterior Cramér-Rao lower bound for a class of nonlinear systems. International Journal of Systems Science, 2016, 47, 3206-3218.	5.5	4
74	Particle filter with one-step randomly delayed measurements and unknown latency probability. International Journal of Systems Science, 2016, 47, 209-221.	5.5	27
75	Design of Sigma-Point Kalman Filter with Recursive Updated Measurement. Circuits, Systems, and Signal Processing, 2016, 35, 1767-1782.	2.0	26
76	Gaussian approximate filter with progressive measurement update. , 2015, , .		7
77	Interpolatory cubature Kalman filters. IET Control Theory and Applications, 2015, 9, 1731-1739.	2.1	50
78	Particle filter for nonlinear systems with multiple step randomly delayed measurements. Electronics Letters, 2015, 51, 1859-1861.	1.0	19
79	Huber's M-Estimation-Based Process Uncertainty Robust Filter for Integrated INS/GPS. IEEE Sensors Journal, 2015, 15, 3367-3374.	4.7	103
80	Gaussian filter for nonlinear systems with correlated noises at the same epoch. Automatica, 2015, 60, 122-126.	5.0	41
81	Embedded cubature Kalman filter with adaptive setting of free parameter. Signal Processing, 2015, 114, 112-116.	3.7	55
82	A Novel Backtracking Scheme for Attitude Determination-Based Initial Alignment. IEEE Transactions on Automation Science and Engineering, 2015, 12, 384-390.	5.2	37
83	Initial Alignment by Attitude Estimation for Strapdown Inertial Navigation Systems. IEEE Transactions on Instrumentation and Measurement, 2015, 64, 784-794.	4.7	145
84	Backtracking Integration for Fast Attitude Determination-Based Initial Alignment. IEEE Transactions on Instrumentation and Measurement, 2015, 64, 795-803.	4.7	45
85	Modified Unscented Quaternion Estimator Based on Quaternion Averaging. Journal of Guidance, Control, and Dynamics, 2014, 37, 305-309.	2.8	37
86	Seventh-degree spherical simplex-radial cubature Kalman filter. , 2014, , .		6
87	An Improved Optimal Method For Initial Alignment. Journal of Navigation, 2014, 67, 727-736.	1.7	49
88	Moving state marine SINS initial alignment based on transformed cubature Kalman filter. , 2014, , .		2
89	SINS initial alignment based on fifth-degree Cubature Kalman Filter. , 2013, , .		6
90	Robust derivative-free Kalman filter based on Huber's M-estimation methodology. Journal of Process Control, 2013, 23, 1555-1561.	3.3	67

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91	Multiple Outliers Suppression Derivative-Free Filter Based on Unscented Transformation. Journal of Guidance, Control, and Dynamics, 2012, 35, 1902-1906.	2.8	63