

Yulong Huang

List of Publications by Year in descending order

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1489
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| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | 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 |
| 2 | A Novel Robust Student's <i>t</i> -Based Kalman Filter. IEEE Transactions on Aerospace and Electronic Systems, 2017, 53, 1545-1554. | 4.7 | 281 |
| 3 | A New Adaptive Extended Kalman Filter for Cooperative Localization. IEEE Transactions on Aerospace and Electronic Systems, 2018, 54, 353-368. | 4.7 | 188 |
| 4 | A Novel Robust Gaussian Student's <i>t</i> Mixture Distribution Based Kalman Filter. IEEE Transactions on Signal Processing, 2019, 67, 3606-3620. | 5.3 | 161 |
| 5 | Robust student's <i>t</i> based nonlinear filter and smoother. IEEE Transactions on Aerospace and Electronic Systems, 2016, 52, 2586-2596. | 4.7 | 158 |
| 6 | Initial Alignment by Attitude Estimation for Strapdown Inertial Navigation Systems. IEEE Transactions on Instrumentation and Measurement, 2015, 64, 784-794. | 4.7 | 145 |
| 7 | 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 |
| 8 | A New Outlier-Robust Student's <i>t</i> Based Gaussian Approximate Filter for Cooperative Localization. IEEE/ASME Transactions on Mechatronics, 2017, 22, 2380-2386. | 5.8 | 126 |
| 9 | Huber's M-Estimation-Based Process Uncertainty Robust Filter for Integrated INS/GPS. IEEE Sensors Journal, 2015, 15, 3367-3374. | 4.7 | 103 |
| 10 | 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 |
| 11 | 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 |
| 12 | Kalman-Filtering-Based In-Motion Coarse Alignment for Odometer-Aided SINS. IEEE Transactions on Instrumentation and Measurement, 2017, 66, 3364-3377. | 4.7 | 88 |
| 13 | A Novel Kullback-Leibler Divergence Minimization-Based Adaptive Student's <i>t</i> -Filter. IEEE Transactions on Signal Processing, 2019, 67, 5417-5432. | 5.3 | 87 |
| 14 | 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 |
| 15 | 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 |
| 16 | A Novel Outlier-Robust Kalman Filtering Framework Based on Statistical Similarity Measure. IEEE Transactions on Automatic Control, 2021, 66, 2677-2692. | 5.7 | 68 |
| 17 | Robust derivative-free Kalman filter based on Huber's M-estimation methodology. Journal of Process Control, 2013, 23, 1555-1561. | 3.3 | 67 |
| 18 | A New Process Uncertainty Robust Student's <i>t</i> Based Kalman Filter for SINS/GPS Integration. IEEE Access, 2017, 5, 14391-14404. | 4.2 | 66 |

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 19 | Multiple Outliers Suppression Derivative-Free Filter Based on Unscented Transformation. Journal of Guidance, Control, and Dynamics, 2012, 35, 1902-1906. | 2.8 | 63 |
| 20 | 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 |
| 21 | Embedded cubature Kalman filter with adaptive setting of free parameter. Signal Processing, 2015, 114, 112-116. | 3.7 | 55 |
| 22 | Interpolatory cubature Kalman filters. IET Control Theory and Applications, 2015, 9, 1731-1739. | 2.1 | 50 |
| 23 | 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 |
| 24 | An Improved Optimal Method For Initial Alignment. Journal of Navigation, 2014, 67, 727-736. | 1.7 | 49 |
| 25 | A Novel Autonomous Initial Alignment Method for Strapdown Inertial Navigation System. IEEE Transactions on Instrumentation and Measurement, 2017, 66, 2274-2282. | 4.7 | 49 |
| 26 | 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 |
| 27 | Backtracking Integration for Fast Attitude Determination-Based Initial Alignment. IEEE Transactions on Instrumentation and Measurement, 2015, 64, 795-803. | 4.7 | 45 |
| 28 | Robust adaptive beamforming for multiple-input multiple-output radar with spatial filtering techniques. Signal Processing, 2018, 143, 152-160. | 3.7 | 44 |
| 29 | A robust Gaussian approximate filter for nonlinear systems with heavy tailed measurement noises. , 2016, , . | | 43 |
| 30 | Gaussian filter for nonlinear systems with correlated noises at the same epoch. Automatica, 2015, 60, 122-126. | 5.0 | 41 |
| 31 | 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 |
| 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 | Modified Unscented Quaternion Estimator Based on Quaternion Averaging. Journal of Guidance, Control, and Dynamics, 2014, 37, 305-309. | 2.8 | 37 |
| 34 | A Novel Backtracking Scheme for Attitude Determination-Based Initial Alignment. IEEE Transactions on Automation Science and Engineering, 2015, 12, 384-390. | 5.2 | 37 |
| 35 | Robust Initial Attitude Alignment for SINS/DVL. IEEE/ASME Transactions on Mechatronics, 2018, 23, 2016-2021. | 5.8 | 37 |
| 36 | A Novel Adaptive Kalman Filter With Unknown Probability of Measurement Loss. IEEE Signal Processing Letters, 2019, 26, 1862-1866. | 3.6 | 37 |

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|----|---|------|-----------|
| 37 | Variational Adaptive Kalman Filter With Gaussian-Inverse-Wishart Mixture Distribution. IEEE Transactions on Automatic Control, 2021, 66, 1786-1793. | 5.7 | 37 |
| 38 | 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 |
| 39 | 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 |
| 40 | Strapdown Inertial Navigation System Initial Alignment Based on Modified Process Model. IEEE Sensors Journal, 2019, 19, 6381-6391. | 4.7 | 34 |
| 41 | Inertial-Based Integration With Transformed INS Mechanization in Earth Frame. IEEE/ASME Transactions on Mechatronics, 2022, 27, 1738-1749. | 5.8 | 32 |
| 42 | 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 |
| 43 | Particle filter with one-step randomly delayed measurements and unknown latency probability. International Journal of Systems Science, 2016, 47, 209-221. | 5.5 | 27 |
| 44 | Huber-Based Adaptive Unscented Kalman Filter with Non-Gaussian Measurement Noise. Circuits, Systems, and Signal Processing, 2018, 37, 3842-3861. | 2.0 | 27 |
| 45 | An Improved Variational Adaptive Kalman Filter for Cooperative Localization. IEEE Sensors Journal, 2021, 21, 10775-10786. | 4.7 | 27 |
| 46 | Design of Sigma-Point Kalman Filter with Recursive Updated Measurement. Circuits, Systems, and Signal Processing, 2016, 35, 1767-1782. | 2.0 | 26 |
| 47 | A New Adaptive Kalman Filter with Inaccurate Noise Statistics. Circuits, Systems, and Signal Processing, 2019, 38, 4380-4404. | 2.0 | 26 |
| 48 | 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 |
| 49 | A New Robust Kalman Filter With Adaptive Estimate of Time-Varying Measurement Bias. IEEE Signal Processing Letters, 2020, 27, 700-704. | 3.6 | 25 |
| 50 | 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 |
| 51 | A Novel Mixture Distributions-Based Robust Kalman Filter for Cooperative Localization. IEEE Sensors Journal, 2020, 20, 14994-15006. | 4.7 | 21 |
| 52 | 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 |
| 53 | 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 |
| 54 | A Computationally Efficient Variational Adaptive Kalman Filter for Transfer Alignment. IEEE Sensors Journal, 2020, 20, 13682-13693. | 4.7 | 20 |

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| 55 | Particle filter for nonlinear systems with multiple step randomly delayed measurements. Electronics Letters, 2015, 51, 1859-1861. | 1.0 | 19 |
| 56 | Latency probability estimation of nonlinear systems with one-step randomly delayed measurements. IET Control Theory and Applications, 2016, 10, 843-852. | 2.1 | 19 |
| 57 | 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 |
| 58 | 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 |
| 59 | An Outlier-Robust Kalman Filter With Adaptive Selection of Elliptically Contoured Distributions. IEEE Transactions on Signal Processing, 2022, 70, 994-1009. | 5.3 | 19 |
| 60 | 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 |
| 61 | Statistical Similarity Measure-Based Adaptive Outlier-Robust State Estimator With Applications. IEEE Transactions on Automatic Control, 2022, 67, 4354-4361. | 5.7 | 17 |
| 62 | 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 |
| 63 | 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 |
| 64 | 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 |
| 65 | 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 |
| 66 | 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 |
| 67 | 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 |
| 68 | Design of High-Degree Student's t-Based Cubature Filters. Circuits, Systems, and Signal Processing, 2018, 37, 2206-2225. | 2.0 | 13 |
| 69 | 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 |
| 70 | A Novel Robust Kalman Filter With Non-stationary Heavy-tailed Measurement Noise. IFAC-PapersOnLine, 2020, 53, 368-373. | 0.9 | 11 |
| 71 | A novel multiple-outlier-robust Kalman filter. Frontiers of Information Technology and Electronic Engineering, 2022, 23, 422-437. | 2.6 | 10 |
| 72 | 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 |

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| 73 | Gaussian approximate filter with progressive measurement update. , 2015, , . | | 7 |
| 74 | SINS initial alignment based on fifth-degree Cubature Kalman Filter. , 2013, , . | | 6 |
| 75 | Seventh-degree spherical simplex-radial cubature Kalman filter. , 2014, , . | | 6 |
| 76 | A Novel Robust Rauch-Tung-Striebel Smoother Based on Slash and Generalized Hyperbolic Skew Student's T-Distributions. , 2018, , . | | 6 |
| 77 | Multi-kernel correntropy based extended Kalman filtering for state-of-charge estimation. ISA Transactions, 2022, 129, 271-283. | 5.7 | 5 |
| 78 | 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 |
| 79 | SE(<i>n</i>) ⁺⁺ : An Efficient Solution to Multiple Pose Estimation Problems. IEEE Transactions on Cybernetics, 2022, 52, 3829-3840. | 9.5 | 3 |
| 80 | Moving state marine SINS initial alignment based on transformed cubature Kalman filter. , 2014, , . | | 2 |
| 81 | Robust Student's t-based Rauch-Tung-Striebel Smoother for Non-stationary Heavy-tailed Measurement Noises. , 2021, , . | | 2 |
| 82 | Robust Elliptically Contoured Distribution Based Kalman Filter for INS/DVL Integrated Navigation. , 2021, , . | | 2 |
| 83 | Particle smoother for nonlinear systems with colored measurement noises. , 2016, , . | | 1 |
| 84 | A New Robust Student's t Based SINS/GPS Integrated Navigation Method. , 2018, , . | | 1 |
| 85 | A Novel Progressive Gaussian Approximate Filter with Variable Step Size Based on a Variational Bayesian Approach. , 2019, , . | | 1 |
| 86 | Noise suppression of fiber optic gyroscope based on variable tap-length adaptive filter. , 2016, , . | | 0 |
| 87 | An improved nonlinear Kalman filter with recursive measurement update. , 2016, , . | | 0 |
| 88 | MIMO Radar and MIMO Communication Spectrum Sharing with Interference Mitigation. , 2019, , . | | 0 |
| 89 | 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 |
| 90 | Trust-Region Solver of A Nonlinear Magnetometer Disturbance Estimation Problem. IEEE Sensors Journal, 2021, , 1-1. | 4.7 | 0 |

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|----|---|-----|-----------|
| 91 | A New Robust Adaptive Filter Aided by Machine Learning Method for SINS/DVL Integrated Navigation System. <i>Sensors</i> , 2022, 22, 3792. | 3.8 | 0 |