

Tao Zhang

List of Publications by Year in descending order

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Version: 2024-02-01

53
papers

1,130
citations

331670

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434195

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all docs

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docs citations

53
times ranked

634
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | A Novel SINS/DVL Tightly Integrated Navigation Method for Complex Environment. IEEE Transactions on Instrumentation and Measurement, 2020, 69, 5183-5196. | 4.7 | 83 |
| 2 | A Hybrid IMM Based INS/DVL Integration Solution for Underwater Vehicles. IEEE Transactions on Vehicular Technology, 2019, 68, 5459-5470. | 6.3 | 78 |
| 3 | Student's t-Based Robust Kalman Filter for a SINS/USBL Integration Navigation Strategy. IEEE Sensors Journal, 2020, 20, 5540-5553. | 4.7 | 65 |
| 4 | Robust Time-Difference-of-Arrival (TDOA) Localization Using Weighted Least Squares with Cone Tangent Plane Constraint. Sensors, 2018, 18, 778. | 3.8 | 47 |
| 5 | In-Motion Filter-QUEST Alignment for Strapdown Inertial Navigation Systems. IEEE Transactions on Instrumentation and Measurement, 2018, 67, 1979-1993. | 4.7 | 41 |
| 6 | Study on Installation Error Analysis and Calibration of Acoustic Transceiver Array Based on SINS/USBL Integrated System. IEEE Access, 2018, 6, 66923-66939. | 4.2 | 40 |
| 7 | A Fast Robust In-Motion Alignment Method for SINS With DVL Aided. IEEE Transactions on Vehicular Technology, 2020, 69, 3816-3827. | 6.3 | 39 |
| 8 | In-Motion Coarse Alignment Method for SINS/GPS Using Position Loci. IEEE Sensors Journal, 2019, 19, 3930-3938. | 4.7 | 36 |
| 9 | A Student's T-Based Measurement Uncertainty Filter for SINS/USBL Tightly Integration Navigation System. IEEE Transactions on Vehicular Technology, 2021, 70, 8627-8638. | 6.3 | 34 |
| 10 | AUV Underwater Positioning Algorithm Based on Interactive Assistance of SINS and LBL. Sensors, 2016, 16, 42. | 3.8 | 32 |
| 11 | A Kalman Filter for SINS Self-Alignment Based on Vector Observation. Sensors, 2017, 17, 264. | 3.8 | 32 |
| 12 | Underwater Positioning Algorithm Based on SINS/LBL Integrated System. IEEE Access, 2018, 6, 7157-7163. | 4.2 | 30 |
| 13 | Initial Alignment of Large Azimuth Misalignment Angles in SINS Based on Adaptive UPF. Sensors, 2015, 15, 21807-21823. | 3.8 | 29 |
| 14 | A Quasi-Newton Quaternions Calibration Method for DVL Error Aided GNSS. IEEE Transactions on Vehicular Technology, 2021, 70, 2465-2477. | 6.3 | 29 |
| 15 | Robust Initial Alignment for SINS/DVL Based on Reconstructed Observation Vectors. IEEE/ASME Transactions on Mechatronics, 2020, 25, 1659-1667. | 5.8 | 29 |
| 16 | An Efficient Constrained Weighted Least Squares Method With Bias Reduction for TDOA-Based Localization. IEEE Sensors Journal, 2021, 21, 10122-10131. | 4.7 | 28 |
| 17 | A Variational Bayesian Based Strong Tracking Interpolatory Cubature Kalman Filter for Maneuvering Target Tracking. IEEE Access, 2018, 6, 52544-52560. | 4.2 | 26 |
| 18 | AUV Positioning Method Based on Tightly Coupled SINS/LBL for Underwater Acoustic Multipath Propagation. Sensors, 2016, 16, 357. | 3.8 | 24 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 19 | A Robust In-Motion Alignment Method With Inertial Sensors and Doppler Velocity Log. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-13. | 4.7 | 22 |
| 20 | Single-Source Aided Semi-Autonomous Passive Location for Correcting the Position of an Underwater Vehicle. IEEE Sensors Journal, 2019, 19, 3267-3275. | 4.7 | 21 |
| 21 | In-Motion Coarse Alignment Based on the Vector Observation for SINS. IEEE Transactions on Instrumentation and Measurement, 2019, 68, 3740-3750. | 4.7 | 21 |
| 22 | A Fast SINS Self-Alignment Method Under Geographic Latitude Uncertainty. IEEE Sensors Journal, 2020, 20, 2885-2894. | 4.7 | 21 |
| 23 | A Robust In-Motion Optimization-Based Alignment for SINS/GPS Integration. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 4362-4372. | 8.0 | 21 |
| 24 | Efficient Underwater Acoustical Localization Method Based On Time Difference and Bearing Measurements. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-16. | 4.7 | 21 |
| 25 | An Improved Initial Alignment Method for SINS/GPS Integration With Vectors Subtraction. IEEE Sensors Journal, 2021, 21, 18256-18262. | 4.7 | 20 |
| 26 | M-M Estimation-Based Robust Cubature Kalman Filter for INS/GPS Integrated Navigation System. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-11. | 4.7 | 19 |
| 27 | Coarse Alignment Technology on Moving base for SINS Based on the Improved Quaternion Filter Algorithm. Sensors, 2017, 17, 1424. | 3.8 | 18 |
| 28 | A Calibration Method of USBL Installation Error Based on Attitude Determination. IEEE Transactions on Vehicular Technology, 2020, 69, 8317-8328. | 6.3 | 17 |
| 29 | A New Coupled Method of SINS/DVL Integrated Navigation Based on Improved Dual Adaptive Factors. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-11. | 4.7 | 16 |
| 30 | Virtual DVL Reconstruction Method for an Integrated Navigation System Based on DS-LSSVM Algorithm. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-13. | 4.7 | 16 |
| 31 | A Coarse Alignment Method Based on Digital Filters and Reconstructed Observation Vectors. Sensors, 2017, 17, 709. | 3.8 | 15 |
| 32 | Multipath Parallel ICCP Underwater Terrain Matching Algorithm Based on Multibeam Bathymetric Data. IEEE Access, 2018, 6, 48708-48715. | 4.2 | 14 |
| 33 | A calibration method of ultra-short baseline installation error with large misalignment based on variational Bayesian unscented Kalman filter. Review of Scientific Instruments, 2019, 90, 055003. | 1.3 | 14 |
| 34 | Geomagnetic Gradient-Assisted Evolutionary Algorithm for Long-Range Underwater Navigation. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-12. | 4.7 | 14 |
| 35 | An Adaptive Damping Network Designed for Strapdown Fiber Optic Gyrocompass System for Ships. Sensors, 2017, 17, 494. | 3.8 | 12 |
| 36 | GMSK-SLAM: a new RGB-D SLAM method with dynamic areas detection towards dynamic environments. Multimedia Tools and Applications, 2021, 80, 31729-31751. | 3.9 | 12 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 37 | A Coarse-Alignment Method Based on the Optimal-REQUEST Algorithm. <i>Sensors</i> , 2018, 18, 239. | 3.8 | 11 |
| 38 | A misalignment angle error calibration method of underwater acoustic array in strapdown inertial navigation system/ultrashort baseline integrated navigation system based on single transponder mode. <i>Review of Scientific Instruments</i> , 2019, 90, 085001. | 1.3 | 11 |
| 39 | Application of improved fifth-degree cubature Kalman filter in the nonlinear initial alignment of strapdown inertial navigation system. <i>Review of Scientific Instruments</i> , 2019, 90, 015111. | 1.3 | 11 |
| 40 | A Novel and Robust Calibration Method for the Underwater Transponder Position. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2021, 70, 1-12. | 4.7 | 10 |
| 41 | A Fast-Initial Alignment Method With Angular Rate Aiding Based on Robust Kalman Filter. <i>IEEE Access</i> , 2019, 7, 51369-51378. | 4.2 | 8 |
| 42 | A SINS Aided Correct Method for USBL Range Based on Maximum Correntropy Criterion Adaptive Filter. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2022, 71, 1-13. | 4.7 | 8 |
| 43 | A High-Order Coning Error Compensation Algorithm Under High Rate Maneuvering. <i>IEEE Sensors Journal</i> , 2020, 20, 208-218. | 4.7 | 7 |
| 44 | A Passive Acoustic Positioning Algorithm Based on Virtual Long Baseline Matrix Window. <i>Journal of Navigation</i> , 2019, 72, 193-206. | 1.7 | 6 |
| 45 | A Novel Robust Inertial and Ultra-Short Baseline Integrated Navigation Strategy Under the Influence of Motion Effect. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2022, 23, 19323-19334. | 8.0 | 6 |
| 46 | Novel SINS Initial Alignment Method under Large Misalignment Angles and Uncertain Noise Based on Nonlinear Filter. <i>Mathematical Problems in Engineering</i> , 2017, 2017, 1-14. | 1.1 | 3 |
| 47 | A Robust Calibration Method for the Underwater Transponder Position Based on Gauss-Newton Iteration Algorithm. , 2019, , . | | 3 |
| 48 | A Staggered Grid Based Water Current Aided SINS/DVL Integration Solution for Mid Water Navigation. <i>IEEE Sensors Journal</i> , 2022, 22, 13136-13143. | 4.7 | 3 |
| 49 | An Indoor Navigation System Based on Stereo Camera and Inertial Sensors with Points and Lines. <i>Journal of Sensors</i> , 2018, 2018, 1-14. | 1.1 | 2 |
| 50 | An Iterative-Optimization-Based Calibration Framework for VIO With Limited Prior Conditions. <i>IEEE Sensors Journal</i> , 2021, 21, 24694-24708. | 4.7 | 2 |
| 51 | The Fine Calibration of the Ultra-Short Baseline System With Inaccurate Measurement Noise Covariance Matrix. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2022, 71, 1-8. | 4.7 | 2 |
| 52 | Online calibration of ultra-short baseline installation error in dynamic environment. <i>International Journal of Sensor Networks</i> , 2019, 30, 254. | 0.4 | 1 |
| 53 | An RCG-based analysis of the Translation of Polysemous Verb “Yao”™ in A Dream of Red Mansions. <i>Cadernos De Traducaõ</i> , 2022, 42, 1-22. | 0.0 | 0 |