

# Yiqing Yao

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/345377/publications.pdf>

Version: 2024-02-01

29  
papers

650  
citations

516710

16  
h-index

580821

25  
g-index

29  
all docs

29  
docs citations

29  
times ranked

311  
citing authors

#	ARTICLE	IF	CITATIONS
1	A hybrid fusion algorithm for GPS/INS integration during GPS outages. Measurement: Journal of the International Measurement Confederation, 2017, 103, 42-51.	5.0	104
2	A Novel SINS/DVL Tightly Integrated Navigation Method for Complex Environment. IEEE Transactions on Instrumentation and Measurement, 2020, 69, 5183-5196.	4.7	83
3	A Hybrid IMM Based INS/DVL Integration Solution for Underwater Vehicles. IEEE Transactions on Vehicular Technology, 2019, 68, 5459-5470.	6.3	78
4	An IMM-UKF Aided SINS/USBL Calibration Solution for Underwater Vehicles. IEEE Transactions on Vehicular Technology, 2020, 69, 3740-3747.	6.3	48
5	A Fast Robust In-Motion Alignment Method for SINS With DVL Aided. IEEE Transactions on Vehicular Technology, 2020, 69, 3816-3827.	6.3	39
6	Robust Initial Alignment for SINS/DVL Based on Reconstructed Observation Vectors. IEEE/ASME Transactions on Mechatronics, 2020, 25, 1659-1667.	5.8	29
7	An IMM-Aided ZUPT Methodology for an INS/DVL Integrated Navigation System. Sensors, 2017, 17, 2030.	3.8	27
8	A Simple and Precise Correction Method for DVL Measurements Under the Dynamic Environment. IEEE Transactions on Vehicular Technology, 2020, 69, 10750-10758.	6.3	22
9	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
10	A Robust In-Motion Optimization-Based Alignment for SINS/GPS Integration. IEEE Transactions on Intelligent Transportation Systems, 2022, 23, 4362-4372.	8.0	21
11	A RLS-SVM Aided Fusion Methodology for INS during GPS Outages. Sensors, 2017, 17, 432.	3.8	20
12	In-motion coarse alignment method for SINS/DVL with the attitude dynamics. ISA Transactions, 2020, 105, 377-386.	5.7	20
13	An Improved Initial Alignment Method for SINS/GPS Integration With Vectors Subtraction. IEEE Sensors Journal, 2021, 21, 18256-18262.	4.7	20
14	In-motion coarse alignment method based on reconstructed observation vectors. Review of Scientific Instruments, 2017, 88, 035001.	1.3	18
15	A Hybrid Approach Based on Improved AR Model and MAA for INS/DVL Integrated Navigation Systems. IEEE Access, 2019, 7, 82794-82808.	4.2	18
16	A Self-Alignment Algorithm for SINS Based on Gravitational Apparent Motion and Sensor Data Denoising. Sensors, 2015, 15, 9827-9853.	3.8	17
17	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
18	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. Review of Scientific Instruments, 2019, 90, 085001.	1.3	11

#	ARTICLE	IF	CITATIONS
19	Improved exponential weighted moving average based measurement noise estimation for strapdown inertial navigation system/doppler velocity log integrated system. Journal of Navigation, 2021, 74, 467-487.	1.7	6
20	In-Motion Coarse Alignment Method for SINS/GPS Integration in Polar Region. IEEE Transactions on Vehicular Technology, 2022, 71, 6110-6118.	6.3	6
21	A Robust Quaternion Kalman Filter Method for MIMU/GPS In-Motion Alignment. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-9.	4.7	5
22	An M-Estimation-Based Improved Interacting Multiple Model for INS/DVL Navigation Method. IEEE Sensors Journal, 2022, 22, 13375-13386.	4.7	4
23	An Improved Interacting Multiple Model Algorithm for INS/DVL Integrated Navigation System. , 2020, , .		3
24	A Staggered Grid Based Water Current Aided SINS/DVL Integration Solution for Mid Water Navigation. IEEE Sensors Journal, 2022, 22, 13136-13143.	4.7	3
25	A fast alignment method for SINS with large misalignment angles based on ADRC. , 2017, , .		2
26	Fast SINS Initial Alignment Method Based on Iterative Algorithms in Inertial Frame. Mathematical Problems in Engineering, 2020, 2020, 1-12.	1.1	2
27	Hull Deformation Measurement With Large Angles Based on Inertial Sensors. IEEE Access, 2020, 8, 191413-191420.	4.2	2
28	DVL Aided SINS Coarse Alignment Solution With High Dynamics. IEEE Access, 2020, 8, 169922-169929.	4.2	2
29	An Iterative Doppler Velocity Log Error Calibration Algorithm Based on Newton Optimization. Mathematical Problems in Engineering, 2020, 2020, 1-9.	1.1	2