

Bo Wang

List of Publications by Year in descending order

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37
papers

971
citations

430442

18
h-index

454577

30
g-index

37
all docs

37
docs citations

37
times ranked

721
citing authors

#	ARTICLE	IF	CITATIONS
1	A Self-Calibration Method for Nonorthogonal Angles Between Gimbals of Rotational Inertial Navigation System. IEEE Transactions on Industrial Electronics, 2015, 62, 2353-2362.	5.2	116
2	Kalman Filter With Recursive Covariance Estimation—Sequentially Estimating Process Noise Covariance. IEEE Transactions on Industrial Electronics, 2014, 61, 6253-6263.	5.2	107
3	A constrained LAMBDA method for GPS attitude determination. GPS Solutions, 2009, 13, 97-107.	2.2	75
4	A multi-position self-calibration method for dual-axis rotational inertial navigation system. Sensors and Actuators A: Physical, 2014, 219, 24-31.	2.0	70
5	A Particle Filter-Based Matching Algorithm With Gravity Sample Vector for Underwater Gravity Aided Navigation. IEEE/ASME Transactions on Mechatronics, 2016, 21, 1399-1408.	3.7	65
6	Estimation of Information Sharing Error by Dynamic Deformation Between Inertial Navigation Systems. IEEE Transactions on Industrial Electronics, 2014, 61, 2015-2023.	5.2	62
7	An Acoustic Communication Time Delays Compensation Approach for Master—Slave AUV Cooperative Navigation. IEEE Sensors Journal, 2017, 17, 504-513.	2.4	54
8	An Improved TERCOM-Based Algorithm for Gravity-Aided Navigation. IEEE Sensors Journal, 2016, 16, 2537-2544.	2.4	45
9	Analysis and Calibration of the Nonorthogonal Angle in Dual-Axis Rotational INS. IEEE Transactions on Industrial Electronics, 2017, 64, 4762-4771.	5.2	41
10	A Combined Matching Algorithm for Underwater Gravity-Aided Navigation. IEEE/ASME Transactions on Mechatronics, 2018, 23, 233-241.	3.7	35
11	A Correction Method for DVL Measurement Errors by Attitude Dynamics. IEEE Sensors Journal, 2017, 17, 4628-4638.	2.4	34
12	A Characteristic Parameter Matching Algorithm for Gravity-Aided Navigation of Underwater Vehicles. IEEE Transactions on Industrial Electronics, 2019, 66, 1203-1212.	5.2	28
13	The Gravity Matching Area Selection Criteria for Underwater Gravity-Aided Navigation Application Based on the Comprehensive Characteristic Parameter. IEEE/ASME Transactions on Mechatronics, 2016, 21, 2935-2943.	3.7	26
14	A Mismatch Diagnostic Method for TERCOM-Based Underwater Gravity-Aided Navigation. IEEE Sensors Journal, 2017, 17, 2880-2888.	2.4	25
15	Improved Particle Filter-Based Matching Method With Gravity Sample Vector for Underwater Gravity-Aided Navigation. IEEE Transactions on Industrial Electronics, 2021, 68, 5206-5216.	5.2	20
16	A Matching Algorithm Based on the Nonlinear Filter and Similarity Transformation for Gravity-Aided Underwater Navigation. IEEE/ASME Transactions on Mechatronics, 2018, 23, 646-654.	3.7	19
17	Foot-Mounted Pedestrian Navigation Algorithm Based on BOR/MINS Integrated Framework. IEEE Transactions on Industrial Electronics, 2020, 67, 3980-3989.	5.2	19
18	An integer ambiguity resolution method for the global positioning system (GPS)-based land vehicle attitude determination. Measurement Science and Technology, 2009, 20, 075108.	1.4	18

#	ARTICLE	IF	CITATIONS
19	A motion-based integer ambiguity resolution method for attitude determination using the global positioning system (GPS). Measurement Science and Technology, 2010, 21, 065102.	1.4	14
20	A Support Vector Regression-Based Integrated Navigation Method for Underwater Vehicles. IEEE Sensors Journal, 2020, 20, 8875-8883.	2.4	13
21	A Model-Free Calibration Method of Inertial Navigation System and Doppler Sensors. IEEE Sensors Journal, 2021, 21, 2219-2229.	2.4	13
22	Unscented Particle Filtering for Estimation of Shipboard Deformation Based on Inertial Measurement Units. Sensors, 2013, 13, 15656-15672.	2.1	12
23	An Approach for DVL-Aided SINS In-Motion Alignment Based on Observability Analysis. IEEE Sensors Journal, 2021, 21, 17131-17143.	2.4	12
24	Error modulation scheme analysis of dual-axis rotating strap-down inertial navigation system based on FOG. , 2014, , .		10
25	A Delaunay Triangulation-Based Matching Area Selection Algorithm for Underwater Gravity-Aided Inertial Navigation. IEEE/ASME Transactions on Mechatronics, 2021, 26, 908-917.	3.7	9
26	Noise analysis and suppression method in attitude determination using the global positioning system (GPS). Applied Mathematics and Computation, 2010, 217, 3985-3992.	1.4	6
27	Sum Vector-Difference-Based Matching Area Selection Method for Underwater Gravity-Aided Navigation. IEEE Access, 2019, 7, 123616-123624.	2.6	6
28	SINS/DVL Integrated Navigation Method With Current Compensation Using RBF Neural Network. IEEE Sensors Journal, 2022, 22, 14366-14377.	2.4	5
29	A State Monitoring Method of Gas Regulator Station Based on Evidence Theory Driven by Time-Domain Information. IEEE Transactions on Industrial Electronics, 2022, 69, 694-702.	5.2	4
30	Ship-Borne Transfer Alignment under Low Maneuver. Applied Mechanics and Materials, 2012, 152-154, 1155-1158.	0.2	2
31	In-motion initial alignment method for DVL-aided SINS under wave disturbance for AUV. , 2014, , .		2
32	State Monitoring of Gas Regulator Station Based on Feature Selection of Improved Grey Relational Analysis. IEEE Internet of Things Journal, 2022, 9, 22765-22773.	5.5	2
33	Analysis of error suppression performance in the carrier angle motion status for rotation for FOG inertial navigation system. , 2014, , .		1
34	Absolute velocity damping algorithm with varying damping ratio for inertial navigation systems based on Kalman filter. , 2016, , .		1
35	Rapid alignment method of INS with large initial azimuth error under uncertain flexure disturbances. , 2013, , .		0
36	On-line self-calibration for inertial platform system with a single totally free axis. , 2013, , .		0

#	ARTICLE	IF	CITATIONS
37	Cooperative navigation for multiple autonomous underwater vehicles with time delayed measurements. , 2016, , .		0