

# Jin Wu

## List of Publications by Year in descending order

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81  
papers

1,017  
citations

516710

16  
h-index

477307

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82  
all docs

82  
docs citations

82  
times ranked

684  
citing authors

#	ARTICLE	IF	CITATIONS
1	Fast Complementary Filter for Attitude Estimation Using Low-Cost MARG Sensors. IEEE Sensors Journal, 2016, 16, 6997-7007.	4.7	180
2	Fast Linear Quaternion Attitude Estimator Using Vector Observations. IEEE Transactions on Automation Science and Engineering, 2018, 15, 307-319.	5.2	84
3	Generalized Linear Quaternion Complementary Filter for Attitude Estimation From Multisensor Observations: An Optimization Approach. IEEE Transactions on Automation Science and Engineering, 2019, 16, 1330-1343.	5.2	59
4	Hand-Eye Calibration: 4-D Procrustes Analysis Approach. IEEE Transactions on Instrumentation and Measurement, 2020, 69, 2966-2981.	4.7	55
5	Neural-networks and event-based fault-tolerant control for spacecraft attitude stabilization. Aerospace Science and Technology, 2021, 114, 106746.	4.8	36
6	Learning Collision-Free Space Detection From Stereo Images: Homography Matrix Brings Better Data Augmentation. IEEE/ASME Transactions on Mechatronics, 2022, 27, 225-233.	5.8	31
7	A Super Fast Attitude Determination Algorithm for Consumer-Level Accelerometer and Magnetometer. IEEE Transactions on Consumer Electronics, 2018, 64, 375-381.	3.6	28
8	Attitude determination using a single sensor observation: analytic quaternion solutions and property discussion. IET Science, Measurement and Technology, 2017, 11, 731-739.	1.6	27
9	Novel MARG-Sensor Orientation Estimation Algorithm Using Fast Kalman Filter. Journal of Sensors, 2017, 2017, 1-12.	1.1	27
10	Critical Issues on Kalman Filter with Colored and Correlated System Noises. Asian Journal of Control, 2017, 19, 1905-1919.	3.0	25
11	Real-Time Magnetometer Disturbance Estimation via Online Nonlinear Programming. IEEE Sensors Journal, 2019, 19, 4405-4411.	4.7	23
12	Quantized Fault-Tolerant Control for Attitude Stabilization with Fixed-Time Disturbance Observer. Journal of Guidance, Control, and Dynamics, 2021, 44, 449-455.	2.8	20
13	Model and robust gain-scheduled PID control of a bio-inspired morphing UAV based on LPV method. Asian Journal of Control, 2019, 21, 1681-1705.	3.0	19
14	Optimal Continuous Unit Quaternions from Rotation Matrices. Journal of Guidance, Control, and Dynamics, 2019, 42, 919-922.	2.8	19
15	Fast Symbolic 3-D Registration Solution. IEEE Transactions on Automation Science and Engineering, 2020, 17, 761-770.	5.2	19
16	Rigid 3D Registration: A Simple Method Free of SVD and Eigen-Decomposition. IEEE Transactions on Instrumentation and Measurement, 2020, , 1-1.	4.7	19
17	MARG Attitude Estimation Using Gradient-Descent Linear Kalman Filter. IEEE Transactions on Automation Science and Engineering, 2020, 17, 1777-1790.	5.2	19
18	On low-complexity control design to spacecraft attitude stabilization: An online-learning approach. Aerospace Science and Technology, 2021, 110, 106441.	4.8	16

#	ARTICLE	IF	CITATIONS
19	Optimal, Recursive and Sub-Optimal Linear Solutions to Attitude Determination from Vector Observations for GNSS/Accelerometer/Magnetometer Orientation Measurement. Remote Sensing, 2018, 10, 377.	4.0	15
20	Event- and self-triggered control of attitude coordination to multi-spacecraft system. Aircraft Engineering and Aerospace Technology, 2020, 92, 1085-1092.	1.2	15
21	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
22	Online-learning control with weakened saturation response to attitude tracking: A variable learning intensity approach. Aerospace Science and Technology, 2021, 117, 106981.	4.8	14
23	Performance Adjustable Event-Triggered Synchronization Policies to Nonlinear Multiagent Systems. IEEE Systems Journal, 2022, 16, 3646-3657.	4.6	13
24	Recursive linear continuous quaternion attitude estimator from vector observations. IET Radar, Sonar and Navigation, 2018, 12, 1196-1207.	1.8	11
25	Event-Triggered Policy to Spacecraft Attitude Stabilization With Actuator Output Nonlinearities. IEEE Transactions on Circuits and Systems II: Express Briefs, 2021, 68, 2855-2859.	3.0	11
26	Learning Observer and Performance Tuning-Based Robust Consensus Policy for Multiagent Systems. IEEE Systems Journal, 2022, 16, 431-439.	4.6	10
27	Cascaded Indirect Kalman Filters for Land-Vehicle Attitude Estimation With MARG Sensors and GNSS Observations. IEEE Transactions on Vehicular Technology, 2021, 70, 3267-3282.	6.3	10
28	Simultaneous Handâ€Eye/Robotâ€World/Cameraâ€IMU Calibration. IEEE/ASME Transactions on Mechatronics, 2022, 27, 2278-2289.	5.8	9
29	Dot Product Equality Constrained Attitude Determination from Two Vector Observations: Theory and Astronautical Applications. Aerospace, 2019, 6, 102.	2.2	8
30	Novel Underwater Glider-Based Absolute Oceanic Current Observation Solutions. IEEE Sensors Journal, 2021, 21, 8045-8054.	4.7	8
31	$\mathcal{H}_\infty$ -Based Minimal Energy Adaptive Control With Preset Convergence Rate. IEEE Transactions on Cybernetics, 2022, 52, 10078-10088.	9.5	8
32	Quadratic Pose Estimation Problems: Globally Optimal Solutions, Solvability/Observability Analysis, and Uncertainty Description. IEEE Transactions on Robotics, 2022, 38, 3314-3335.	10.3	8
33	Multi-spacecraft attitude synchronization based on performance adjustable event-triggered control. Advances in Space Research, 2022, 70, 303-314.	2.6	8
34	Analytic accelerometerâ€magnetometer attitude determination without reference information. International Journal of Micro Air Vehicles, 2018, 10, 318-329.	1.3	7
35	Computationally Efficient Robust Algorithm for Generalized Sensor Calibration Problem $\mathcal{R}$ . IEEE Sensors Journal, 2019, 19, 9512-9521.	4.7	7
36	Actuator model for spacecraft attitude control simulation. Aircraft Engineering and Aerospace Technology, 2021, 93, 553-557.	1.2	7

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37	Globally Optimal Symbolic Hand-Eye Calibration. IEEE/ASME Transactions on Mechatronics, 2021, 26, 1369-1379.	5.8	7
38	On Attitude Tracking Control With Communication-Saving: An Integrated Quantized and Event-Based Scheme. IEEE Transactions on Circuits and Systems II: Express Briefs, 2021, 68, 2012-2016.	3.0	7
39	Real-time magnetic disturbance determination for micro air vehicles via gravity and global navigation satellite system measurements. Measurement Science and Technology, 2019, 30, 025102.	2.6	6
40	An Improved Invariant Kalman Filter for Lie Groups Attitude Dynamics with Heavy-Tailed Process Noise. Machines, 2021, 9, 182.	2.2	6
41	Spatio-temporal Attention-Based Deep Learning Framework for Mesoscale Eddy Trajectory Prediction. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2022, 15, 3853-3867.	4.9	6
42	Effective Inertial Hand Gesture Recognition Using Particle Filtering Based Trajectory Matching. Journal of Electrical and Computer Engineering, 2018, 2018, 1-9.	0.9	5
43	Behaviors classification based distance measuring system for pedestrians via a foot-mounted inertial sensor. Asian Journal of Control, 2019, 21, 1483-1495.	3.0	5
44	Unified Attitude Determination Problem From Vector Observations and Hand-Eye Measurements. IEEE Transactions on Aerospace and Electronic Systems, 2020, 56, 3941-3957.	4.7	5
45	On Bundle Adjustment for Multiview Point Cloud Registration. IEEE Robotics and Automation Letters, 2021, 6, 8269-8276.	5.1	5
46	Path Following for Unmanned Combat Aerial Vehicles Using Three-Dimensional Nonlinear Guidance. IEEE/ASME Transactions on Mechatronics, 2022, 27, 2646-2656.	5.8	5
47	Linear Kalman Filter for Attitude Estimation from Angular Rate and a Single Vector Measurement. Journal of Sensors, 2017, 2017, 1-9.	1.1	4
48	Simplified Attitude Determination Algorithm Using Accelerometer and Magnetometer with Extremely Low Execution Time. Journal of Sensors, 2018, 2018, 1-11.	1.1	4
49	Optimal Attitude Determination from Vector Sensors Using Fast Analytical Singular Value Decomposition. Journal of Sensors, 2018, 2018, 1-10.	1.1	4
50	A novel 3D shape reconstruction method based on maximum correntropy Kalman filtering. Sensor Review, 2019, 39, 332-340.	1.8	4
51	Edge-Event-Triggered Synchronization for Multi-Agent Systems with Nonlinear Controller Outputs. Applied Sciences (Switzerland), 2020, 10, 5250.	2.5	4
52	Correspondence Matching and Time Delay Estimation for Hand-eye Calibration. IEEE Transactions on Instrumentation and Measurement, 2020, , 1-1.	4.7	4
53	Robustification of Learning Observers to Uncertainty Identification via Time-Varying Learning Intensity. IEEE Transactions on Circuits and Systems II: Express Briefs, 2022, 69, 1292-1296.	3.0	4
54	MesoGRU: Deep Learning Framework for Mesoscale Eddy Trajectory Prediction. IEEE Geoscience and Remote Sensing Letters, 2022, 19, 1-5.	3.1	4

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55	Micromachined Rate-Integrating Gyroscopes: Concept, Asymmetry Error Sources and Phenomena. Symmetry, 2020, 12, 801.	2.2	4
56	Convexity Analysis of Optimization Framework of Attitude Determination from Vector Observations. , 2019, , .		3
57	SE( $n$ ): An Efficient Solution to Multiple Pose Estimation Problems. IEEE Transactions on Cybernetics, 2022, 52, 3829-3840.	9.5	3
58	On Prescribed Performance Synchronization to QUAD Nonlinear Multi-Agent Networks. IEEE Transactions on Circuits and Systems II: Express Briefs, 2022, 69, 1377-1381.	3.0	3
59	Prescribed performance spacecraft attitude tracking with disturbance observer: A performance-adjustable policy. Advances in Space Research, 2022, 70, 2357-2368.	2.6	3
60	Fast Linear Attitude Estimation and Angular Rate Generation. , 2018, , .		2
61	Spacecraft attitude control with mutating orbital rate and actuator fading under Markovian jump framework. Aircraft Engineering and Aerospace Technology, 2021, ahead-of-print, .	1.2	2
62	Differential Information Aided 3-D Registration for Accurate Navigation and Scene Reconstruction. , 2021, , .		2
63	Reset and prescribed performance approach to spacecraft attitude regulation. Aircraft Engineering and Aerospace Technology, 2021, 93, 1573-1581.	1.2	2
64	MAV quaternion attitude determination for accelerometer-magnetometer combination: Internal analysis. TM Technisches Messen, 2020, 87, 647-657.	0.7	2
65	Synthetization of Fingerprint Recognition and Trilateration for Wi-Fi Indoor Localization Through Linear Kalman Filtering. Lecture Notes in Electrical Engineering, 2018, , 373-386.	0.4	1
66	Implementation of Mixed Sequential Kalman Filters for Vision-Aided GNSS/INS Integrated Navigation System. Lecture Notes in Electrical Engineering, 2018, , 629-641.	0.4	1
67	A novel robust depth estimation method based on optimal region selection. Measurement: Journal of the International Measurement Confederation, 2019, 148, 106928.	5.0	1
68	Corrections to "Fast Complementary Filter for Attitude Estimation Using Low-Cost MARG Sensors" IEEE Sensors Journal, 2019, 19, 12511-12511.	4.7	1
69	Circuit Synthesis of 3-D Rotation Orthonormalization. IEEE Transactions on Circuits and Systems II: Express Briefs, 2021, 68, 1502-1506.	3.0	1
70	Fault-tolerant control of spacecraft attitude regulation: a concise adaptive dual-mode scheme. Aircraft Engineering and Aerospace Technology, 2021, ahead-of-print, .	1.2	1
71	Integral-Type Edge-Event- and Edge-Self-Triggered Synchronization to Multi-Agent Systems with Lurâ€™e Nonlinear Dynamics. Applied Sciences (Switzerland), 2021, 11, 9137.	2.5	1
72	Robust Gain-Scheduled PID Control: A Parameter Dependent BMI Solution. Cybernetics and Information Technologies, 2020, 20, 156-167.	1.1	1

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73	The pre-process DV-UKF algorithm for high-precision attitude measurement with low-cost inertial sensor. Aircraft Engineering and Aerospace Technology, 2022, 94, 1188-1199.	1.2	1
74	Generalized $n$ -Dimensional Rigid Registration: Theory and Applications. IEEE Transactions on Cybernetics, 2023, 53, 927-940.	9.5	1
75	A linear computationally efficient Kalman filter for robust attitude estimation from horizon measurements and GNSS observations. Sensor Review, 2020, 40, 153-165.	1.8	0
76	Trust-Region Solver of A Nonlinear Magnetometer Disturbance Estimation Problem. IEEE Sensors Journal, 2021, , 1-1.	4.7	0
77	Hybrid Geomagnetic Attitude and Orbit Estimation Using Time-Differential Feedback. Transactions of the Japan Society for Aeronautical and Space Sciences, 2021, 64, 174-180.	0.7	0
78	Geomagnetic orbit determination: EKF or UKF?. Aircraft Engineering and Aerospace Technology, 2021, 93, 985-994.	1.2	0
79	Reference-Free Adaptive Attitude Determination Method Using Low-Cost MARG Sensors. Lecture Notes in Computer Science, 2019, , 35-48.	1.3	0
80	Linear geometric algebra rotor estimator for efficient mesh deformation. IET Cyber-Systems and Robotics, 2020, 2, 88-95.	1.8	0
81	On the state independency and log-linearity of error propagation for discrete group affine systems with application to attitude estimation. Aircraft Engineering and Aerospace Technology, 2022, 94, 437-444.	1.2	0