

Paulo J Oliveira

List of Publications by Year in descending order

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258
papers

3,893
citations

147801

31
h-index

189892

50
g-index

260
all docs

260
docs citations

260
times ranked

2505
citing authors

#	ARTICLE	IF	CITATIONS
1	Geometric Approach to Strapdown Magnetometer Calibration in Sensor Frame. IEEE Transactions on Aerospace and Electronic Systems, 2011, 47, 1293-1306.	4.7	249
2	Maritime Traffic Monitoring Based on Vessel Detection, Tracking, State Estimation, and Trajectory Prediction. IEEE Transactions on Intelligent Transportation Systems, 2012, 13, 1188-1200.	8.0	216
3	Single range aided navigation and source localization: Observability and filter design. Systems and Control Letters, 2011, 60, 665-673.	2.3	129
4	Study and implementation of an EKF GIB-based underwater positioning system. Control Engineering Practice, 2007, 15, 689-701.	5.5	111
5	A nonlinear position and attitude observer on SE(3) using landmark measurements. Systems and Control Letters, 2010, 59, 155-166.	2.3	99
6	Tightly coupled ultrashort baseline and inertial navigation system for underwater vehicles: An experimental validation. Journal of Field Robotics, 2013, 30, 142-170.	6.0	79
7	Robotic ocean vehicles for marine science applications: the European ASIMOV project. , 0, , .		76
8	A leader-following trajectory generator with application to quadrotor formation flight. Robotics and Autonomous Systems, 2014, 62, 1597-1609.	5.1	76
9	Vehicle and Mission Control of the DELFIM Autonomous Surface Craft. , 2006, , .		69
10	Accelerometer Calibration and Dynamic Bias and Gravity Estimation: Analysis, Design, and Experimental Evaluation. IEEE Transactions on Control Systems Technology, 2011, 19, 1128-1137.	5.2	65
11	Robust Localization of Nodes and Time-Recursive Tracking in Sensor Networks Using Noisy Range Measurements. IEEE Transactions on Signal Processing, 2011, 59, 3930-3942.	5.3	58
12	Embedded Vehicle Dynamics Aiding for USBL/INS Underwater Navigation System. IEEE Transactions on Control Systems Technology, 2014, 22, 322-330.	5.2	58
13	Discrete-Time Complementary Filters for Attitude and Position Estimation: Design, Analysis and Experimental Validation. IEEE Transactions on Control Systems Technology, 2011, 19, 181-198.	5.2	56
14	Linear Quadratic Regulator for Trajectory Tracking of a Quadrotor. IFAC-PapersOnLine, 2019, 52, 176-181.	0.9	56
15	Sensor-Based Globally Asymptotically Stable Filters for Attitude Estimation: Analysis, Design, and Performance Evaluation. IEEE Transactions on Automatic Control, 2012, 57, 2095-2100.	5.7	55
16	A GES attitude observer with single vector observations. Automatica, 2012, 48, 388-395.	5.0	55
17	Navigation system design using time-varying complementary filters. IEEE Transactions on Aerospace and Electronic Systems, 2000, 36, 1099-1114.	4.7	54
18	Position USBL/DVL sensor-based navigation filter in the presence of unknown ocean currents. Automatica, 2011, 47, 2604-2614.	5.0	53

#	ARTICLE	IF	CITATIONS
19	Optimal position and velocity navigation filters for autonomous vehicles. <i>Automatica</i> , 2010, 46, 767-774.	5.0	49
20	Embedded UAV model and LASER aiding techniques for inertial navigation systems. <i>Control Engineering Practice</i> , 2010, 18, 262-278.	5.5	48
21	Globally exponentially stable cascade observers for attitude estimation. <i>Control Engineering Practice</i> , 2012, 20, 148-155.	5.5	46
22	USBL/INS Tightly-Coupled Integration Technique for Underwater Vehicles. , 2006, , .		44
23	A Nonlinear GPS/IMU based observer for rigid body attitude and position estimation. , 2008, , .		43
24	Discrete-time distributed Kalman filter design for formations of autonomous vehicles. <i>Control Engineering Practice</i> , 2018, 75, 55-68.	5.5	43
25	Navigation, guidance and control of AUVs: An application to the MARIUS vehicle. <i>Control Engineering Practice</i> , 1996, 4, 401-409.	5.5	42
26	A Sensor-Based Controller for Homing of Underactuated AUVs. <i>IEEE Transactions on Robotics</i> , 2009, 25, 701-716.	10.3	42
27	On the observability of linear motion quantities in navigation systems. <i>Systems and Control Letters</i> , 2011, 60, 101-110.	2.3	42
28	Vegetation-mediated impacts of trends in global radiation on land hydrology: a global sensitivity study. <i>Global Change Biology</i> , 2011, 17, 3453-3467.	9.5	39
29	Feedback Linearization with Zero Dynamics Stabilization for Quadrotor Control. <i>Journal of Intelligent and Robotic Systems: Theory and Applications</i> , 2021, 101, 1.	3.4	39
30	System Identification of Nonlinear Vessel Steering. <i>Journal of Offshore Mechanics and Arctic Engineering</i> , 2015, 137, .	1.2	38
31	L1 adaptive backstepping control for path-following of underactuated marine surface ships. <i>European Journal of Control</i> , 2021, 58, 357-372.	2.6	37
32	Landmark based nonlinear observer for rigid body attitude and position estimation. , 2007, , .		36
33	Globally Asymptotically Stable Sensor-Based Simultaneous Localization and Mapping. <i>IEEE Transactions on Robotics</i> , 2013, 29, 1380-1395.	10.3	36
34	Study and implementation of an EKF GIB-based underwater positioning system. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2004, 37, 383-390.	0.4	35
35	Distributed state estimation for linear multi-agent systems with time-varying measurement topology. <i>Automatica</i> , 2015, 54, 72-79.	5.0	35
36	Design and Experimental Validation of a USBL Underwater Acoustic Positioning System. <i>Sensors</i> , 2016, 16, 1491.	3.8	34

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37	Vehicle and mission control of single and multiple autonomous marine robots. , 2006, , 353-386.		33
38	MARIUS: an autonomous underwater vehicle for coastal oceanography. IEEE Robotics and Automation Magazine, 1997, 4, 46-59.	2.0	31
39	Mission control of the MARIUS autonomous underwater vehicle: system design, implementation and sea trials. International Journal of Systems Science, 1998, 29, 1065-1080.	5.5	31
40	Single beacon navigation: Observability analysis and filter design. , 2010, , .		30
41	A Nonlinear Observer for Rigid Body Attitude Estimation using Vector Observations. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2008, 41, 8599-8604.	0.4	29
42	Decentralized observers for position and velocity estimation in vehicle formations with fixed topologies. Systems and Control Letters, 2012, 61, 443-453.	2.3	28
43	Sensor-Based Long Baseline Navigation: Observability Analysis and Filter Design. Asian Journal of Control, 2014, 16, 974-994.	3.0	28
44	INS/GPS Aided by Frequency Contents of Vector Observations With Application to Autonomous Surface Crafts. IEEE Journal of Oceanic Engineering, 2011, 36, 347-363.	3.8	26
45	Globally exponentially stable filters for source localization and navigation aided by direction measurements. Systems and Control Letters, 2013, 62, 1065-1072.	2.3	25
46	On-board implementation and experimental validation of collaborative transportation of loads with multiple UAVs. Aerospace Science and Technology, 2020, 107, 106284.	4.8	25
47	Low-cost Attitude and Heading Reference System: Filter design and experimental evaluation. , 2010, , .		24
48	A two-step control approach for docking of autonomous underwater vehicles. International Journal of Robust and Nonlinear Control, 2015, 25, 1528-1547.	3.7	24
49	A Nonlinear Attitude Observer Based on Active Vision and Inertial Measurements. IEEE Transactions on Robotics, 2011, 27, 664-677.	10.3	23
50	Hovercraft Control With Dynamic Parameters Identification. IEEE Transactions on Control Systems Technology, 2018, 26, 785-796.	5.2	22
51	Sensor-based complementary globally asymptotically stable filters for attitude estimation. , 2009, , .		21
52	Tightly coupled long baseline/ultra-short baseline integrated navigation system. International Journal of Systems Science, 2016, 47, 1837-1855.	5.5	21
53	MMAE terrain reference navigation for underwater vehicles using PCA. International Journal of Control, 2007, 80, 1008-1017.	1.9	20
54	A Sensor-based Long Baseline Position and Velocity Navigation Filter for Underwater Vehicles. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2010, 43, 302-307.	0.4	19

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55	Design and experimental evaluation of an integrated USBL/INS system for AUVs. , 2010, , .		19
56	An Angular Approach for Range-Based Approximate Maximum Likelihood Source Localization Through Convex Relaxation. IEEE Transactions on Wireless Communications, 2014, 13, 3951-3964.	9.2	19
57	GES integrated LBL/USBL navigation system for underwater vehicles. , 2012, , .		18
58	Simultaneous localization and mapping for aerial vehicles: a 3-D sensor-based GAS filter. Autonomous Robots, 2016, 40, 881-902.	4.8	17
59	Discrete time-varying attitude complementary filter. , 2009, , .		16
60	Interpolation of signals with missing data using Principal Component Analysis. Multidimensional Systems and Signal Processing, 2010, 21, 25-43.	2.6	16
61	Nonlinear observer for 3D rigid body motion. , 2013, , .		16
62	Single range navigation in the presence of constant unknown drifts. , 2009, , .		15
63	Darrieus wind turbine prototype: Dynamic modeling parameter identification and control analysis. Energy, 2018, 159, 961-976.	8.8	15
64	Selection of Controller Parameters using Genetic Algorithms. , 1991, , 431-438.		15
65	Combination of Lyapunov and Density Functions for Stability of Rotational Motion. IEEE Transactions on Automatic Control, 2011, 56, 2599-2607.	5.7	14
66	Fault Detection and Isolation in Inertial Measurement Units Based on Bounding Sets. IEEE Transactions on Automatic Control, 2015, 60, 1933-1938.	5.7	14
67	A time differences of arrival-based homing strategy for autonomous underwater vehicles. International Journal of Robust and Nonlinear Control, 2010, 20, 1758-1773.	3.7	13
68	Attitude and earth velocity estimation - Part I: Globally exponentially stable observer. , 2014, , .		13
69	New Depth From Focus Filters in Active Monocular Vision Systems for Indoor 3-D Tracking. IEEE Transactions on Control Systems Technology, 2015, 23, 1827-1839.	5.2	13
70	Enhanced PCA-Based Localization Using Depth Maps with Missing Data. Journal of Intelligent and Robotic Systems: Theory and Applications, 2015, 77, 341-360.	3.4	13
71	Uncertainty characterization of the orthogonal Procrustes problem with arbitrary covariance matrices. Pattern Recognition, 2017, 61, 210-220.	8.1	13
72	An integrated approach to the design and analysis of navigation, guidance and control systems for AUVs. , 0, , .		12

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73	Position and velocity optimal sensor-based navigation filters for UAVs. , 2009, , .		12
74	3-D inertial trajectory and map online estimation: Building on a GAS sensor-based SLAM filter. , 2013, , .		12
75	Sensor-based globally exponentially stable range-only simultaneous localization and mapping. Robotics and Autonomous Systems, 2015, 68, 72-85.	5.1	12
76	System Identification of Vessel Steering With Unstructured Uncertainties by Persistent Excitation Maneuvers. IEEE Journal of Oceanic Engineering, 2016, , 1-14.	3.8	12
77	Nonlinear Observer for 3D Rigid Body Motion Estimation Using Doppler Measurements. IEEE Transactions on Automatic Control, 2016, 61, 3580-3585.	5.7	12
78	A globally exponentially stable filter for bearing-only simultaneous localization and mapping with monocular vision. Robotics and Autonomous Systems, 2018, 100, 61-77.	5.1	12
79	Multiple-model control architecture for a quadrotor with constant unknown mass and inertia. Mechatronics, 2021, 73, 102455.	3.3	12
80	Navigation systems design: an application of multi-rate filtering theory. , 0, , .		11
81	VEHICLE DYNAMICS AIDING TECHNIQUE FOR USBL/INS UNDERWATER NAVIGATION SYSTEM. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2007, 40, 111-116.	0.4	11
82	A convex relaxation for approximate maximum-likelihood 2D source localization from range measurements. , 2010, , .		11
83	A two-step control strategy for docking of Autonomous Underwater Vehicles. , 2012, , .		11
84	Preliminary results on globally asymptotically stable simultaneous localization and mapping in 3-D. , 2013, , .		11
85	Model-based adaptive filter for 3D positioning and tracking systems. Automatica, 2014, 50, 225-232.	5.0	11
86	Position and Velocity Filters for ASC/I-AUV Tandems Based on Single Range Measurements. Journal of Intelligent and Robotic Systems: Theory and Applications, 2014, 74, 745-768.	3.4	11
87	Model-Based Filters for 3-D positioning of marine mammals using AHRS- and GPS-equipped UAVs. IEEE Transactions on Aerospace and Electronic Systems, 2015, 51, 3307-3320.	4.7	11
88	Leader following trajectory planning: A trailer-like approach. Automatica, 2017, 75, 77-87.	5.0	11
89	Design of a mission management system for the autonomous underwater vehicle MARIUS. , 0, , .		10
90	Estimation of Attitude and Position from Range-Only Measurements using Geometric Descent Optimization on the Special Euclidean Group. , 2006, , .		10

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91	Partial attitude and rate gyro bias estimation: observability analysis, filter design, and performance evaluation. International Journal of Control, 2011, 84, 895-903.	1.9	10
92	Position and Velocity USBL/IMU Sensor-based Navigation Filter. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2011, 44, 13642-13647.	0.4	10
93	Navigation systems based on multiple bearing measurements. IEEE Transactions on Aerospace and Electronic Systems, 2015, 51, 2887-2899.	4.7	10
94	Testing of a torque vectoring controller for a Formula Student prototype. Robotics and Autonomous Systems, 2019, 113, 56-62.	5.1	10
95	2D PCA-based localization for mobile robots in unstructured environments. , 2012, , .		9
96	Decentralized state observers for range-based position and velocity estimation in acyclic formations with fixed topologies. International Journal of Robust and Nonlinear Control, 2016, 26, 963-994.	3.7	9
97	Nonlinear Observer on SO(3) for Attitude Estimation on Rotating Earth Using Single Vector Measurements. , 2019, 3, 392-397.		9
98	Inertial Navigation System Aided by GPS and Selective Frequency Contents of Vector Measurements. , 2005, , .		8
99	A Quaternion Sensor Based Controller for Homing of Underactuated AUVs. , 2006, , .		8
100	Interpolation of Signals with Missing Data Using PCA. , 0, , .		8
101	Stability and performance robustness tradeoffs: MIMO mixed μ complex μ design. International Journal of Robust and Nonlinear Control, 2009, 19, 259-294.	3.7	8
102	Joint Positioning and Navigation Aiding Systems for Multiple Underwater Robots. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2009, 42, 167-172.	0.4	8
103	Dynamic Parameter Estimation of a Nonlinear Vessel Steering Model for Ocean Navigation. , 2011, , .		8
104	Sensor-based simultaneous localization and mapping — Part II: Online inertial map and trajectory estimation. , 2012, , .		8
105	A received signal strength indication-based localization system. , 2013, , .		8
106	A novel leader-following strategy applied to formations of quadrotors. , 2013, , .		8
107	Source Localization Based on Acoustic Single Direction Measurements. IEEE Transactions on Aerospace and Electronic Systems, 2018, 54, 2837-2852.	4.7	8
108	Vision-Aided Complementary Filter for Attitude and Position Estimation: Design, Analysis and Experimental Validation. IFAC-PapersOnLine, 2019, 52, 388-393.	0.9	8

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109	Multiple-model adaptive control architecture for a quadrotor with constant unknown mass and inertia. <i>Aerospace Science and Technology</i> , 2021, 117, 106899.	4.8	8
110	Synchronization of Two Independently Moving Cameras without Feature Correspondences. <i>Lecture Notes in Computer Science</i> , 2014, , 189-204.	1.3	8
111	Necessary and sufficient conditions for the observability of linear motion quantities in strapdown navigation systems. , 2009, , .		7
112	Underwater vehicle technology in the European Research Project VENUS. <i>Underwater Technology</i> , 2009, 28, 175-185.	0.3	7
113	GES Attitude Observers “ Part II: Single Vector Observations. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2011, 44, 2991-2996.	0.4	7
114	Vector-Based Attitude Filter for Space Navigation. <i>Journal of Intelligent and Robotic Systems: Theory and Applications</i> , 2011, 64, 221-243.	3.4	7
115	Sensor-based simultaneous localization and mapping “ Part I: GAS robocentric filter. , 2012, , .		7
116	Global attitude and gyro bias estimation based on set-valued observers. <i>Systems and Control Letters</i> , 2013, 62, 937-942.	2.3	7
117	Nonlinear Attitude Observer Based on Range and Inertial Measurements. <i>IEEE Transactions on Control Systems Technology</i> , 2013, 21, 1889-1897.	5.2	7
118	Automatic 2-D LiDAR geometric calibration of installation bias. <i>Robotics and Autonomous Systems</i> , 2014, 62, 1116-1129.	5.1	7
119	Attitude and earth velocity estimation - Part II: Observer on the special orthogonal group. , 2014, , .		7
120	Globally exponentially stable attitude observer with Earth velocity estimation. <i>Asian Journal of Control</i> , 2019, 21, 1409-1422.	3.0	7
121	A 3-D Trailer Approach to Leader-Following Formation Control. <i>IEEE Transactions on Control Systems Technology</i> , 2020, 28, 2292-2308.	5.2	7
122	Robust Outliers Detection and Classification for USBL Underwater Positioning Systems. <i>Lecture Notes in Electrical Engineering</i> , 2015, , 555-565.	0.4	7
123	Fuzzy supervision of direct controllers. , 0, , .		6
124	Strategic level mission control - an evaluation of CORAL and PROLOG implementations for mission control specifications. , 0, , .		6
125	Position USBL/DVL sensor-based navigation filter in the presence of unknown ocean currents. , 2010, , .		6
126	UAV-based marine mammals positioning and tracking system. , 2011, , .		6

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127	GES Attitude Observers " Part I: Multiple General Vector Observations. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2011, 44, 2985-2990.	0.4	6
128	Position and velocity filters for intervention AUVs based on single range and depth measurements. , 2012, , .		6
129	GES source localization and navigation based on discrete-time bearing measurements. , 2013, , .		6
130	Calibration of High-Grade Inertial Measurement Units Using a Rate Table. , 2019, 3, 1-4.		6
131	Discrete-time distributed Kalman filter design for networks of interconnected systems with linear time-varying dynamics. International Journal of Systems Science, 2022, 53, 1334-1351.	5.5	6
132	Fuzzy logic steering controller for a guided vehicle. , 0, , .		5
133	Design, development, and testing at sea of the mission control system for the MARIUS autonomous underwater vehicle. , 0, , .		5
134	GPS aided IMU for Unmanned Air Vehicles 1. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2004, 37, 460-465.	0.4	5
135	Embedded Vehicle Dynamics and LASER Aiding Techniques for Inertial Navigation Systems. , 2006, , .		5
136	A Landmark Based Nonlinear Observer for Attitude and Position Estimation with Bias Compensation. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2008, 41, 3446-3451.	0.4	5
137	Single Pan and Tilt Camera Indoor Positioning and Tracking System. European Journal of Control, 2011, 17, 414-428.	2.6	5
138	GES source localization based on discrete-time position and single range measurements. , 2013, , .		5
139	TW-TOA based cooperative sensor network localization with unknown turn-around time. , 2013, , .		5
140	GAS tightly coupled LBL/USBL position and velocity filter for underwater vehicles. , 2013, , .		5
141	Design and Validation of an RGB-D Based Localization System - Integration in a Docking System. Journal of Intelligent and Robotic Systems: Theory and Applications, 2015, 80, 423-440.	3.4	5
142	The variational attitude estimator in the presence of bias in angular velocity measurements. , 2016, , .		5
143	Discrete-time distributed Kalman filter design for multi-vehicle systems. , 2017, , .		5
144	Adaptive/multi-model height control system of a quadrotor constant unknown load transportation. , 2018, , .		5

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145	Attitude estimation using high-grade gyroscopes. Control Engineering Practice, 2019, 92, 104134.	5.5	5
146	Attitude observer on the special orthogonal group with Earth velocity estimation. Systems and Control Letters, 2019, 126, 33-39.	2.3	5
147	Integrated Visual Servoing Solution to Quadrotor Stabilization and Attitude Estimation Using a Pan and Tilt Camera. IEEE Transactions on Control Systems Technology, 2019, 27, 14-29.	5.2	5
148	Pose observers for Unmanned Air Vehicles. , 2009, , .		5
149	Design and implementation of a trajectory tracking controller for an autonomous underwater vehicle (AUV). , 0, , .		4
150	Internet mission control of the ROMEO unmanned underwater vehicle using the CORAL mission controller. , 0, , .		4
151	A NONLINEAR VISION BASED TRACKING SYSTEM FOR COORDINATED CONTROL OF MARINE VEHICLES. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2002, 35, 295-300.	0.4	4
152	Visual-feedback positioning of a ROV. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2004, 37, 391-396.	0.4	4
153	PCA Positioning Sensor Characterization for Terrain Based Navigation of UUVs. Lecture Notes in Computer Science, 2005, , 615-622.	1.3	4
154	Joint positioning and navigation aiding system for underwater robots. , 2008, , .		4
155	A dynamic estimator on SE(3) using range-only measurements. , 2008, , .		4
156	Kalman and H ∞ Optimal Filtering for a Class of Kinematic Systems. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2008, 41, 12528-12533.	0.4	4
157	Globally asymptotically stable filters for source localization and navigation aided by direction measurements. , 2011, , .		4
158	Depth Estimation in Active Monocular Vision Systems for Indoor 3D Tracking*. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2011, 44, 9470-9475.	0.4	4
159	Attitude Estimation for Intervention-AUVs Working in Tandem with Autonomous Surface Craft. European Journal of Control, 2012, 18, 485-495.	2.6	4
160	Attitude determination using the Ambiguity filter with single-frequency L1 GPS receivers. , 2012, , .		4
161	Fault Detection and Isolation for Inertial Measurement Units. , 2012, , .		4
162	Nonlinear observability and observer design through state augmentation. , 2014, , .		4

#	ARTICLE	IF	CITATIONS
163	Robust conditions for uniform complete observability and controllability of LTV systems with bounded realizations 1 This work was supported by the Fundação para a Ciência e a Tecnologia (FCT) through ISR under LARSyS UID/EEA/50009/2013, and through IDMEC, under LAETA UID/EMS/50022/2013 contracts, by the University of Macau Projects MYRG2015-00126-FST and MYRG2015-00127-FST, and by the Macao Science and Technology Development Fund under Grant FDCT/048/2014/A1.. IFAC-PapersOnLine, 2017, 50, 3598-3605.	0.9	4
164	Active stabilization of a stiff quadruped robot using local feedback. , 2017, , .		4
165	LQR/MMAE Height Control System of a Quadrotor for Constant Unknown Load Transportation. , 2018, , .		4
166	Cooperative Load Transportation with Quadrotors. , 2019, , .		4
167	Implementation and testing of a sideslip estimation for a formula student prototype. Robotics and Autonomous Systems, 2019, 115, 83-89.	5.1	4
168	Kalman Filter Cascade for Attitude Estimation on Rotating Earth. IEEE/ASME Transactions on Mechatronics, 2020, 25, 327-338.	5.8	4
169	Distributed controller design and performance optimization for discrete-time linear systems. Optimal Control Applications and Methods, 2021, 42, 126-143.	2.1	4
170	Attitude, body-fixed Earth rotation rate, and sensor bias estimation using single observations of direction of gravitational field. Automatica, 2021, 125, 109475.	5.0	4
171	Navigation system design using time-varying complementary filters. , 1999, , .		3
172	The use of "CARAVELA 2000" vehicles in operational oceanography. Elsevier Oceanography Series, 2002, 66, 281-288.	0.1	3
173	On the Design of Multirate Complementary Filters for Autonomous Marine Vehicle Navigation 1. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2003, 36, 151-156.	0.4	3
174	MMAE Terrain Reference Navigation for Underwater Vehicles using Eigen Analysis. , 0, , .		3
175	A Sensor Based Homing Strategy for Autonomous Underwater Vehicles. , 2006, , .		3
176	Uncertainty vs Performance Trade-Offs in Robust Feedback Control: A Mimo Case Study. , 2006, , .		3
177	Nonlinear and geometric optimization methods for LADAR calibration. , 2008, , .		3
178	Bathymetric data fusion: PCA based Interpolation and regularization, sea tests, and implementation. , 2008, , .		3
179	Improving Aiding techniques for USBL Tightly-Coupled Inertial Navigation System. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2008, 41, 15973-15978.	0.4	3
180	Stability of a nonlinear attitude observer on SO(3) with nonideal angular velocity measurements. , 2009, , .		3

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181	Position and Velocity Navigation Systems for Unmanned Vehicles. IEEE Transactions on Control Systems Technology, 2009, 17, 707-715.	5.2	3
182	Experimental evaluation of a nonlinear attitude observer based on image and inertial measurements. , 2010, , .		3
183	Preliminary results from project MAST/AM-advanced tracking and telemetry methodologies to study marine animals. , 2011, , .		3
184	Optimal attitude estimation using Set-Valued Observers. , 2011, , .		3
185	Linear motion observers for ASC/AUV tandems based on single range readings. , 2011, , .		3
186	A closed-loop design methodology for underwater transducers pulse-shaping. , 2011, , .		3
187	Decentralized range-based linear motion estimation in acyclic vehicle formations with fixed topologies. , 2012, , .		3
188	Integrated solution to quadrotor stabilization and attitude estimation using a pan and tilt camera. , 2012, , .		3
189	Set-Valued Observers for attitude and rate gyro bias estimation. , 2012, , .		3
190	Quaternion Estimation for attitude determination using multiple L1 GPS receivers. , 2012, , .		3
191	GAS decentralized navigation filters in a continuous-discrete fixed topology framework. , 2013, , .		3
192	Sensor-based globally asymptotically stable range-only simultaneous localization and mapping. , 2013, , .		3
193	Further results on the observability in magneto-inertial navigation. , 2013, , .		3
194	A Bayesian grid method PCA-based for mobile robots localization in unstructured environments. , 2013, , .		3
195	Towards uncertainty optimization in active SLAM. , 2015, , .		3
196	State estimation of nonlinear systems using the Unscented Kalman Filter. , 2015, , .		3
197	Complementary Filter Design with Three Frequency Bands: Robot Attitude Estimation. , 2015, , .		3
198	Nonlinear Attitude Observer on SO(3) Based on Single Body-Vector Measurements. , 2018, , .		3

#	ARTICLE	IF	CITATIONS
199	Strategies for uncertainty optimization through motion planning in GES sensor-based SLAM. Robotics and Autonomous Systems, 2019, 113, 38-55.	5.1	3
200	Inner-outer feedback linearization for quadrotor control: two-step design and validation. Nonlinear Dynamics, 2022, 110, 479-495.	5.2	3
201	TERRAIN BASED NAVIGATION TOOLS FOR UNDERWATER VEHICLES USING EIGEN ANALYSIS. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2005, 38, 79-84.	0.4	2
202	Automatic LADAR calibration methods using geometric optimization. , 2011, , .		2
203	Monocular depth from focus estimation with complementary filters. , 2011, , .		2
204	Decentralized linear state observers for vehicle formations with time-varying topologies. , 2013, , .		2
205	A globally exponentially stable filter for bearing-only simultaneous localization and mapping in 3-D. , 2015, , .		2
206	On the stability of the continuous-time Kalman filter subject to exponentially decaying perturbations. Systems and Control Letters, 2016, 89, 41-46.	2.3	2
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