

# Paulo J Oliveira

## List of Publications by Year in descending order

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258  
papers

3,893  
citations

147726

31  
h-index

189801

50  
g-index

260  
all docs

260  
docs citations

260  
times ranked

2505  
citing authors

#	ARTICLE	IF	CITATIONS
1	Decentralised navigation systems for bearing-based position and velocity estimation in tiered formations. <i>International Journal of Systems Science</i> , 2022, 53, 504-525.	3.7	0
2	Discrete-time distributed Kalman filter design for networks of interconnected systems with linear time-varying dynamics. <i>International Journal of Systems Science</i> , 2022, 53, 1334-1351.	3.7	6
3	Inner-outer feedback linearization for quadrotor control: two-step design and validation. <i>Nonlinear Dynamics</i> , 2022, 110, 479-495.	2.7	3
4	A Leader-Follower Trajectory Tracking Controller for Multi-Quadrotor Formation Flight. <i>International Journal of Aviation Science and Technology</i> , 2022, vm03, 13-20.	0.6	0
5	L1 adaptive backstepping control for path-following of underactuated marine surface ships. <i>European Journal of Control</i> , 2021, 58, 357-372.	1.6	37
6	Feedback Linearization with Zero Dynamics Stabilization for Quadrotor Control. <i>Journal of Intelligent and Robotic Systems: Theory and Applications</i> , 2021, 101, 1.	2.0	39
7	Multiple-model control architecture for a quadrotor with constant unknown mass and inertia. <i>Mechatronics</i> , 2021, 73, 102455.	2.0	12
8	Distributed controller design and performance optimization for discrete-time linear systems. <i>Optimal Control Applications and Methods</i> , 2021, 42, 126-143.	1.3	4
9	Attitude, body-fixed Earth rotation rate, and sensor bias estimation using single observations of direction of gravitational field. <i>Automatica</i> , 2021, 125, 109475.	3.0	4
10	Multiple-model adaptive control architecture for a quadrotor with constant unknown mass and inertia. <i>Aerospace Science and Technology</i> , 2021, 117, 106899.	2.5	8
11	Kalman filtering technique for attitude estimation on SO(3) using single inertial vector observations. , 2021, , .		0
12	Global trajectory tracking for quadrotors: An MRP-based hybrid backstepping strategy. , 2021, , .		2
13	A 3-D Trailer Approach to Leader-Following Formation Control. <i>IEEE Transactions on Control Systems Technology</i> , 2020, 28, 2292-2308.	3.2	7
14	Special Issue on ICARSC 2018. <i>Journal of Intelligent and Robotic Systems: Theory and Applications</i> , 2020, 98, 133-133.	2.0	0
15	On-board implementation and experimental validation of collaborative transportation of loads with multiple UAVs. <i>Aerospace Science and Technology</i> , 2020, 107, 106284.	2.5	25
16	Earth-fixed trajectory and map online estimation: Building on GES sensor-based SLAM filters. <i>Robotics and Autonomous Systems</i> , 2020, 130, 103552.	3.0	1
17	Kalman Filter Cascade for Attitude Estimation on Rotating Earth. <i>IEEE/ASME Transactions on Mechatronics</i> , 2020, 25, 327-338.	3.7	4
18	Attitude observers aided by implicit measurements of the Earth angular velocity. , 2020, , .		1

#	ARTICLE	IF	CITATIONS
19	Cooperative Load Transportation with Quadrotors. , 2019, , .		4
20	Attitude estimation using high-grade gyroscopes. Control Engineering Practice, 2019, 92, 104134.	3.2	5
21	Nonlinear Observer on SO(3) for Attitude Estimation on Rotating Earth Using Single Vector Measurements. , 2019, 3, 392-397.		9
22	Testing of a torque vectoring controller for a Formula Student prototype. Robotics and Autonomous Systems, 2019, 113, 56-62.	3.0	10
23	Attitude observer on the special orthogonal group with Earth velocity estimation. Systems and Control Letters, 2019, 126, 33-39.	1.3	5
24	Calibration of High-Grade Inertial Measurement Units Using a Rate Table. , 2019, 3, 1-4.		6
25	Globally exponentially stable attitude observer with Earth velocity estimation. Asian Journal of Control, 2019, 21, 1409-1422.	1.9	7
26	Implementation and testing of a sideslip estimation for a formula student prototype. Robotics and Autonomous Systems, 2019, 115, 83-89.	3.0	4
27	MMAE/LQR Yaw Control System of a Quadrotor for Constant Unknown Inertia. IFAC-PapersOnLine, 2019, 52, 170-175.	0.5	2
28	Vision-Aided Complementary Filter for Attitude and Position Estimation: Design, Analysis and Experimental Validation. IFAC-PapersOnLine, 2019, 52, 388-393.	0.5	8
29	Linear Quadratic Regulator for Trajectory Tracking of a Quadrotor. IFAC-PapersOnLine, 2019, 52, 176-181.	0.5	56
30	Strategies for uncertainty optimization through motion planning in GES sensor-based SLAM. Robotics and Autonomous Systems, 2019, 113, 38-55.	3.0	3
31	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.	3.2	5
32	Torque Vectoring for a Formula Student Prototype. Advances in Intelligent Systems and Computing, 2018, , 422-433.	0.5	0
33	Discrete-time distributed Kalman filter design for formations of autonomous vehicles. Control Engineering Practice, 2018, 75, 55-68.	3.2	43
34	Hovercraft Control With Dynamic Parameters Identification. IEEE Transactions on Control Systems Technology, 2018, 26, 785-796.	3.2	22
35	A globally exponentially stable filter for bearing-only simultaneous localization and mapping with monocular vision. Robotics and Autonomous Systems, 2018, 100, 61-77.	3.0	12
36	LQR/MMAE Height Control System of a Quadrotor for Constant Unknown Load Transportation. , 2018, , .		4

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37	Navigation System for Mobile Robots Using PCA-Based Localization from Ceiling Depth Images: Experimental Validation. , 2018, , .		1
38	MMAC Height Control System of a Quadrotor for Constant Unknown Load Transportation. , 2018, , .		2
39	Nonlinear Attitude Observer on SO(3) Based on Single Body-Vector Measurements. , 2018, , .		3
40	A Globally Exponentially Stable Solution for Frequency Estimation. , 2018, , .		0
41	Darrieus Wind Turbine Prototype Control Study. , 2018, , .		0
42	Source Localization Based on Acoustic Single Direction Measurements. IEEE Transactions on Aerospace and Electronic Systems, 2018, 54, 2837-2852.	2.6	8
43	Darrieus wind turbine prototype: Dynamic modeling parameter identification and control analysis. Energy, 2018, 159, 961-976.	4.5	15
44	Adaptive/multi-model height control system of a quadrotor constant unknown load transportation. , 2018, , .		5
45	Sensor-Based 3-D Pose Estimation and Control of Rotary-Wing UAVs Using a 2-D LiDAR. Advances in Intelligent Systems and Computing, 2018, , 718-729.	0.5	0
46	Application of Sideslip Estimation Architecture to a Formula Student Prototype. Advances in Intelligent Systems and Computing, 2018, , 409-421.	0.5	0
47	Discrete-time distributed Kalman filter design for multi-vehicle systems. , 2017, , .		5
48	Sideslip estimation of Formula Student prototype through GPS/INS fusion. , 2017, , .		1
49	Leader following trajectory planning: A trailer-like approach. Automatica, 2017, 75, 77-87.	3.0	11
50	Actuator Fault Detection and Isolation Based on Multiple-Model Adaptive Estimation (MMAE). Lecture Notes in Electrical Engineering, 2017, , 345-357.	0.3	0
51	Uncertainty characterization of the orthogonal Procrustes problem with arbitrary covariance matrices. Pattern Recognition, 2017, 61, 210-220.	5.1	13
52	Relaxed conditions for uniform complete observability and controllability of LTV systems with bounded realizations 1 1This work was supported by the Funda��o para a Ci�ncia 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 Macao 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.	0.5	4
53	Active stabilization of a stiff quadruped robot using local feedback. , 2017, , .		4
54	New Design Techniques for Globally Convergent Simultaneous Localization and Mapping: Analysis and Implementation. Lecture Notes in Control and Information Sciences, 2017, , 121-141.	0.6	0

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55	Design and Experimental Validation of a USBL Underwater Acoustic Positioning System. <i>Sensors</i> , 2016, 16, 1491.	2.1	34
56	The variational attitude estimator in the presence of bias in angular velocity measurements. , 2016, , .		5
57	Synchronization of Independently Moving Cameras via Motion Recovery. <i>SIAM Journal on Imaging Sciences</i> , 2016, 9, 869-900.	1.3	0
58	Relative attitude observers for three-platform formations with inertial spread observations. , 2016, , .		0
59	On the stability of the continuous-time Kalman filter subject to exponentially decaying perturbations. <i>Systems and Control Letters</i> , 2016, 89, 41-46.	1.3	2
60	System Identification of Vessel Steering With Unstructured Uncertainties by Persistent Excitation Maneuvers. <i>IEEE Journal of Oceanic Engineering</i> , 2016, , 1-14.	2.1	12
61	Nonlinear Observer for 3D Rigid Body Motion Estimation Using Doppler Measurements. <i>IEEE Transactions on Automatic Control</i> , 2016, 61, 3580-3585.	3.6	12
62	Tightly coupled long baseline/ultra-short baseline integrated navigation system. <i>International Journal of Systems Science</i> , 2016, 47, 1837-1855.	3.7	21
63	Simultaneous localization and mapping for aerial vehicles: a 3-D sensor-based GAS filter. <i>Autonomous Robots</i> , 2016, 40, 881-902.	3.2	17
64	Decentralized state observers for range-based position and velocity estimation in acyclic formations with fixed topologies. <i>International Journal of Robust and Nonlinear Control</i> , 2016, 26, 963-994.	2.1	9
65	Model-Based Filters for 3-D positioning of marine mammals using AHRS- and GPS-equipped UAVs. <i>IEEE Transactions on Aerospace and Electronic Systems</i> , 2015, 51, 3307-3320.	2.6	11
66	System Identification of Nonlinear Vessel Steering. <i>Journal of Offshore Mechanics and Arctic Engineering</i> , 2015, 137, .	0.6	38
67	Towards uncertainty optimization in active SLAM. , 2015, , .		3
68	Pseudo-range navigation with clock offset and propagation speed estimation. , 2015, , .		0
69	State estimation of nonlinear systems using the Unscented Kalman Filter. , 2015, , .		3
70	A globally exponentially stable filter for bearing-only simultaneous localization and mapping in 3-D. , 2015, , .		2
71	Simultaneous Localization and mapping in sensor networks: A GES sensor-based filter with moving object tracking. , 2015, , .		1
72	Globally convergent relative attitude observers for three-platform formations. , 2015, , .		1

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73	Navigation systems based on multiple bearing measurements. IEEE Transactions on Aerospace and Electronic Systems, 2015, 51, 2887-2899.	2.6	10
74	Distributed state estimation for linear multi-agent systems with time-varying measurement topology. Automatica, 2015, 54, 72-79.	3.0	35
75	Sensor-based globally exponentially stable range-only simultaneous localization and mapping. Robotics and Autonomous Systems, 2015, 68, 72-85.	3.0	12
76	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.	2.0	5
77	Complementary Filter Design with Three Frequency Bands: Robot Attitude Estimation. , 2015, , .		3
78	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.	3.2	13
79	Enhanced PCA-Based Localization Using Depth Maps with Missing Data. Journal of Intelligent and Robotic Systems: Theory and Applications, 2015, 77, 341-360.	2.0	13
80	Fault Detection and Isolation in Inertial Measurement Units Based on Bounding Sets. IEEE Transactions on Automatic Control, 2015, 60, 1933-1938.	3.6	14
81	A two-step control approach for docking of autonomous underwater vehicles. International Journal of Robust and Nonlinear Control, 2015, 25, 1528-1547.	2.1	24
82	Robust Outliers Detection and Classification for USBL Underwater Positioning Systems. Lecture Notes in Electrical Engineering, 2015, , 555-565.	0.3	7
83	Implementation and Validation of a Docking System for Nonholonomical Vehicles. Lecture Notes in Electrical Engineering, 2015, , 525-534.	0.3	0
84	Trailer-like leader following trajectory planning. , 2014, , .		1
85	Nonlinear observability and observer design through state augmentation. , 2014, , .		4
86	Sensor-Based Long Baseline Navigation: Observability Analysis and Filter Design. Asian Journal of Control, 2014, 16, 974-994.	1.9	28
87	Three dimensional trajectory planner for real time leader following. , 2014, , .		1
88	Filter design for localization aided by direction and Doppler measurements. , 2014, , .		0
89	Design and validation of a linear parameter varying localization system. , 2014, , .		0
90	Model-based adaptive filter for 3D positioning and tracking systems. Automatica, 2014, 50, 225-232.	3.0	11

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91	A leader-following trajectory generator with application to quadrotor formation flight. <i>Robotics and Autonomous Systems</i> , 2014, 62, 1597-1609.	3.0	76
92	Position and Velocity Filters for ASC/I-AUV Tandems Based on Single Range Measurements. <i>Journal of Intelligent and Robotic Systems: Theory and Applications</i> , 2014, 74, 745-768.	2.0	11
93	Embedded Vehicle Dynamics Aiding for USBL/INS Underwater Navigation System. <i>IEEE Transactions on Control Systems Technology</i> , 2014, 22, 322-330.	3.2	58
94	An Angular Approach for Range-Based Approximate Maximum Likelihood Source Localization Through Convex Relaxation. <i>IEEE Transactions on Wireless Communications</i> , 2014, 13, 3951-3964.	6.1	19
95	Automatic 2-D LiDAR geometric calibration of installation bias. <i>Robotics and Autonomous Systems</i> , 2014, 62, 1116-1129.	3.0	7
96	Attitude and earth velocity estimation - Part I: Globally exponentially stable observer. , 2014, , .		13
97	Attitude and earth velocity estimation - Part II: Observer on the special orthogonal group. , 2014, , .		7
98	Synchronization of Two Independently Moving Cameras without Feature Correspondences. <i>Lecture Notes in Computer Science</i> , 2014, , 189-204.	1.0	8
99	Global attitude and gyro bias estimation based on set-valued observers. <i>Systems and Control Letters</i> , 2013, 62, 937-942.	1.3	7
100	Nonlinear Attitude Observer Based on Range and Inertial Measurements. <i>IEEE Transactions on Control Systems Technology</i> , 2013, 21, 1889-1897.	3.2	7
101	Preliminary results on the estimation performance of single range source localization. , 2013, , .		1
102	Enhanced PCA-based localization using depth maps with missing data. , 2013, , .		1
103	GES source localization based on discrete-time position and single range measurements. , 2013, , .		5
104	A received signal strength indication-based localization system. , 2013, , .		8
105	Experimental validation of a visual odometry system for indoor unstructured environments. , 2013, , .		1
106	Rss based cooperative sensor network localization with unknown transmit power. , 2013, , .		1
107	Tightly coupled ultrashort baseline and inertial navigation system for underwater vehicles: An experimental validation. <i>Journal of Field Robotics</i> , 2013, 30, 142-170.	3.2	79
108	Globally Asymptotically Stable Sensor-Based Simultaneous Localization and Mapping. <i>IEEE Transactions on Robotics</i> , 2013, 29, 1380-1395.	7.3	36

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109	Globally exponentially stable filters for source localization and navigation aided by direction measurements. <i>Systems and Control Letters</i> , 2013, 62, 1065-1072.	1.3	25
110	Decentralized linear state observers for vehicle formations with time-varying topologies. , 2013, , .		2
111	TW-TOA based cooperative sensor network localization with unknown turn-around time. , 2013, , .		5
112	GAS decentralized navigation filters in a continuous-discrete fixed topology framework. , 2013, , .		3
113	Preliminary results on globally asymptotically stable simultaneous localization and mapping in 3-D. , 2013, , .		11
114	Sensor-based globally asymptotically stable range-only simultaneous localization and mapping. , 2013, , .		3
115	Nonlinear observer for 3D rigid body motion. , 2013, , .		16
116	LMI-based $\infty$ -norm adaptive filtering for 3D positioning and tracking systems. , 2013, , .		0
117	GES source localization and navigation based on discrete-time bearing measurements. , 2013, , .		6
118	Further results on the observability in magneto-inertial navigation. , 2013, , .		3
119	A Bayesian grid method PCA-based for mobile robots localization in unstructured environments. , 2013, , .		3
120	A novel leader-following strategy applied to formations of quadrotors. , 2013, , .		8
121	GES tightly coupled attitude estimation based on a LBL/USBL positioning system. , 2013, , .		0
122	3-D inertial trajectory and map online estimation: Building on a GAS sensor-based SLAM filter. , 2013, , .		12
123	GAS tightly coupled LBL/USBL position and velocity filter for underwater vehicles. , 2013, , .		5
124	Decentralized range-based linear motion estimation in acyclic vehicle formations with fixed topologies. , 2012, , .		3
125	Position and velocity filters for intervention AUVs based on single range and depth measurements. , 2012, , .		6
126	Sensor-based simultaneous localization and mapping $\times$ 2014; Part I: GAS robocentric filter. , 2012, , .		7



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127	2D PCA-based localization for mobile robots in unstructured environments. , 2012, , .		9
128	Integrated solution to quadrotor stabilization and attitude estimation using a pan and tilt camera. , 2012, , .		3
129	Set-Valued Observers for attitude and rate gyro bias estimation. , 2012, , .		3
130	Attitude Filter for Intervention-AUVs working in Tandem with Autonomous Surface Craft. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2012, 45, 230-235.	0.4	0
131	GAS Ocean Current Estimation with Limited Velocity Readings. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2012, 45, 337-342.	0.4	1
132	Attitude Estimation for Intervention-AUVs Working in Tandem with Autonomous Surface Craft. European Journal of Control, 2012, 18, 485-495.	1.6	4
133	Quaternion Estimation for attitude determination using multiple L1 GPS receivers. , 2012, , .		3
134	GES integrated LBL/USBL navigation system for underwater vehicles. , 2012, , .		18
135	Attitude determination using the Ambiguity filter with single-frequency L1 GPS receivers. , 2012, , .		4
136	Globally asymptotically stable filter for navigation aided by direction and depth measurements. , 2012, , .		1
137	A two-step control strategy for docking of Autonomous Underwater Vehicles. , 2012, , .		11
138	Sensor-based simultaneous localization and mapping &#x2014; Part II: Online inertial map and trajectory estimation. , 2012, , .		8
139	Fault Detection and Isolation for Inertial Measurement Units. , 2012, , .		4
140	Maritime Traffic Monitoring Based on Vessel Detection, Tracking, State Estimation, and Trajectory Prediction. IEEE Transactions on Intelligent Transportation Systems, 2012, 13, 1188-1200.	4.7	216
141	Sensor-Based Globally Asymptotically Stable Filters for Attitude Estimation: Analysis, Design, and Performance Evaluation. IEEE Transactions on Automatic Control, 2012, 57, 2095-2100.	3.6	55
142	Globally exponentially stable cascade observers for attitude estimation. Control Engineering Practice, 2012, 20, 148-155.	3.2	46
143	A GES attitude observer with single vector observations. Automatica, 2012, 48, 388-395.	3.0	55
144	Decentralized observers for position and velocity estimation in vehicle formations with fixed topologies. Systems and Control Letters, 2012, 61, 443-453.	1.3	28

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145	Preliminary results from project MAST/AM-advanced tracking and telemetry methodologies to study marine animals. , 2011, , .		3
146	UAV-based marine mammals positioning and tracking system. , 2011, , .		6
147	Globally asymptotically stable filters for source localization and navigation aided by direction measurements. , 2011, , .		4
148	Optimal attitude estimation using Set-Valued Observers. , 2011, , .		3
149	Partial attitude and rate gyro bias estimation: observability analysis, filter design, and performance evaluation. International Journal of Control, 2011, 84, 895-903.	1.2	10
150	Single Pan and Tilt Camera Indoor Positioning and Tracking System. European Journal of Control, 2011, 17, 414-428.	1.6	5
151	Robust Localization of Nodes and Time-Recursive Tracking in Sensor Networks Using Noisy Range Measurements. IEEE Transactions on Signal Processing, 2011, 59, 3930-3942.	3.2	58
152	Discrete-Time Complementary Filters for Attitude and Position Estimation: Design, Analysis and Experimental Validation. IEEE Transactions on Control Systems Technology, 2011, 19, 181-198.	3.2	56
153	Combination of Lyapunov and Density Functions for Stability of Rotational Motion. IEEE Transactions on Automatic Control, 2011, 56, 2599-2607.	3.6	14
154	A Nonlinear Attitude Observer Based on Active Vision and Inertial Measurements. IEEE Transactions on Robotics, 2011, 27, 664-677.	7.3	23
155	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
156	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
157	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
158	Decentralized Linear Motion Estimators for AUV Formations with Fixed Topologies. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2011, 44, 13636-13641.	0.4	1
159	Online Model Identification for Set-valued State Estimators With Discrete-Time Measurements. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2011, 44, 4753-4758.	0.4	0
160	GES Attitude Observers " Part II: Single Vector Observations. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2011, 44, 2991-2996.	0.4	7
161	An Experimentally Validated Attitude Observer Based on Range and Inertial Measurements*. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2011, 44, 13807-13812.	0.4	1
162	Vegetation-mediated impacts of trends in global radiation on land hydrology: a global sensitivity study. Global Change Biology, 2011, 17, 3453-3467.	4.2	39

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163	INS/GPS Aided by Frequency Contents of Vector Observations With Application to Autonomous Surface Crafts. IEEE Journal of Oceanic Engineering, 2011, 36, 347-363.	2.1	26
164	Geometric Approach to Strapdown Magnetometer Calibration in Sensor Frame. IEEE Transactions on Aerospace and Electronic Systems, 2011, 47, 1293-1306.	2.6	249
165	Position USBL/DVL sensor-based navigation filter in the presence of unknown ocean currents. Automatica, 2011, 47, 2604-2614.	3.0	53
166	Accelerometer Calibration and Dynamic Bias and Gravity Estimation: Analysis, Design, and Experimental Evaluation. IEEE Transactions on Control Systems Technology, 2011, 19, 1128-1137.	3.2	65
167	Vector-Based Attitude Filter for Space Navigation. Journal of Intelligent and Robotic Systems: Theory and Applications, 2011, 64, 221-243.	2.0	7
168	On the observability of linear motion quantities in navigation systems. Systems and Control Letters, 2011, 60, 101-110.	1.3	42
169	Single range aided navigation and source localization: Observability and filter design. Systems and Control Letters, 2011, 60, 665-673.	1.3	129
170	Automatic LADAR calibration methods using geometric optimization. , 2011, , .		2
171	Linear motion observers for ASC/AUV tandems based on single range readings. , 2011, , .		3
172	Monocular depth from focus estimation with complementary filters. , 2011, , .		2
173	Computationally efficient GES cascade observer for attitude estimation. , 2011, , .		1
174	A closed-loop design methodology for underwater transducers pulse-shaping. , 2011, , .		3
175	Dynamic Parameter Estimation of a Nonlinear Vessel Steering Model for Ocean Navigation. , 2011, , .		8
176	Collaborated and Constrained Neural-EKF Algorithm for the Vessel Traffic Monitoring and Information System. , 2011, , .		2
177	Sensor-based Globally Asymptotically Stable Filters for Attitude Estimation: Analysis, Design, and Performance Evaluation. IEEE Transactions on Automatic Control, 2011, , .	3.6	2
178	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
179	Interpolation of signals with missing data using Principal Component Analysis. Multidimensional Systems and Signal Processing, 2010, 21, 25-43.	1.7	16
180	Optimal position and velocity navigation filters for autonomous vehicles. Automatica, 2010, 46, 767-774.	3.0	49

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181	A nonlinear position and attitude observer on SE(3) using landmark measurements. Systems and Control Letters, 2010, 59, 155-166.	1.3	99
182	Embedded UAV model and LASER aiding techniques for inertial navigation systems. Control Engineering Practice, 2010, 18, 262-278.	3.2	48
183	A time differences of arrival-based homing strategy for autonomous underwater vehicles. International Journal of Robust and Nonlinear Control, 2010, 20, 1758-1773.	2.1	13
184	A convex relaxation for approximate maximum-likelihood 2D source localization from range measurements. , 2010, , .		11
185	Position USBL/DVL sensor-based navigation filter in the presence of unknown ocean currents. , 2010, , .		6
186	Experimental evaluation of a nonlinear attitude observer based on image and inertial measurements. , 2010, , .		3
187	Single beacon navigation: Observability analysis and filter design. , 2010, , .		30
188	Design and experimental evaluation of an integrated USBL/INS system for AUVs. , 2010, , .		19
189	Low-cost Attitude and Heading Reference System: Filter design and experimental evaluation. , 2010, , .		24
190	Stability of a nonlinear attitude observer on SO(3) with nonideal angular velocity measurements. , 2009, , .		3
191	Single range navigation in the presence of constant unknown drifts. , 2009, , .		15
192	Necessary and sufficient conditions for the observability of linear motion quantities in strapdown navigation systems. , 2009, , .		7
193	Combination of Lyapunov functions and density functions for stability of rotational motion. , 2009, , .		1
194	Nonlinear attitude estimation using active vision and inertial measurements. , 2009, , .		1
195	Underwater vehicle technology in the European Research Project VENUS. Underwater Technology, 2009, 28, 175-185.	0.3	7
196	Stability and performance-robustness tradeoffs: MIMO mixed complex design. International Journal of Robust and Nonlinear Control, 2009, 19, 259-294.	2.1	8
197	Discrete time-varying attitude complementary filter. , 2009, , .		16
198	A Sensor-Based Controller for Homing of Underactuated AUVs. IEEE Transactions on Robotics, 2009, 25, 701-716.	7.3	42

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199	Position and velocity optimal sensor-based navigation filters for UAVs. , 2009, , .		12
200	Position and Velocity Navigation Systems for Unmanned Vehicles. IEEE Transactions on Control Systems Technology, 2009, 17, 707-715.	3.2	3
201	Sensor-based complementary globally asymptotically stable filters for attitude estimation. , 2009, , .		21
202	Posterior Cram�r-Rao bounds analysis for INS/USBL navigation systems. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2009, 42, 20-25.	0.4	0
203	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
204	Pose observers for Unmanned Air Vehicles. , 2009, , .		5
205	Optimal position and velocity navigation filters with discrete-time delayed measurements. , 2008, , .		0
206	Nonlinear and geometric optimization methods for LADAR calibration. , 2008, , .		3
207	Bathymetric data fusion: PCA based Interpolation and regularization, sea tests, and implementation. , 2008, , .		3
208	Joint positioning and navigation aiding system for underwater robots. , 2008, , .		4
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