Carlos J F Silvestre

List of Publications by Year
in descending order

362	6,714	71061	114418
papers	citations	41 h-index	63 g-index

364	364	364	3803
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Adaptive control with unknown mass estimation for a quadrotor-slung-load system. ISA Transactions, 2023, 133, 412-423.	3.1	9
2	Stochastic and Deterministic State-Dependent Social Networks. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2022, 52, 911-926.	5.9	5
3	Cooperative Path Following Control of Multiple Quadcopters With Unknown External Disturbances. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2022, 52, 667-679.	5.9	7
4	General resilient consensus algorithms. International Journal of Control, 2022, 95, 1482-1496.	1.2	17
5	Adaptive-Constrained Impedance Control for Humanâ€“Robot Co-Transportation. IEEE Transactions on Cybernetics, 2022, 52, 13237-13249.	6.2	74
6	Decentralised navigation systems for bearing-based position and velocity estimation in tiered formations. International Journal of Systems Science, 2022, 53, 504-525.	3.7	0
7	On the Robustness of Nominally Well-Posed Event-Triggered Controllers. , 2022, 6, 415-420.		6
8	Adaptive Backstepping Control of a Quadcopter With Uncertain Vehicle Mass, Moment of Inertia, and Disturbances. IEEE Transactions on Industrial Electronics, 2022, 69, 549-559.	5.2	37
9	Coordinate-Free Distributed Localization and Circumnavigation for Nonholonomic Vehicles Without Position Information. IEEE/ASME Transactions on Mechatronics, 2022, 27, 2523-2534.	3.7	5
10	Saturated Backstepping-Based Tracking Control of a Quadrotor With Uncertain Vehicle Parameters and External Disturbances. , 2022, 6, 1634-1639.		6
11	Geometric finite-time inner-outer loop trajectory tracking control strategy for quadrotor slung-load transportation. Nonlinear Dynamics, 2022, 107, 2291-2308.	2.7	18
12	A Recursive Algorithm for Secure Filtering for Two-Dimensional State-Saturated Systems Under Network-Based Deception Attacks. IEEE Transactions on Network Science and Engineering, 2022, 9, 678-688.	4.1	11
13	Fast Desynchronization Algorithms for Decentralized Medium Access Control Based on Iterative Linear Equation Solvers. IEEE Transactions on Automatic Control, 2022, 67, 6219-6226.	3.6	2
14	Aggressive maneuvers for a quadrotor-slung-load system through fast trajectory generation and tracking. Autonomous Robots, 2022, 46, 499-513.	3.2	11
15	Adaptive ride height controller design for vehicle active suspension systems with uncertain sprung mass and timeâ€varying disturbance. International Journal of Robust and Nonlinear Control, 2022, 32, 5950-5966.	2.1	4
16	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.	3.7	6
17	Relaxed bearing rigidity and bearing formation control under persistence of excitation. Automatica, 2022, 141, 110289.	3.0	10
18	Some properties of time-varying bearing formation. European Journal of Control, 2022, 68, 100699.	1.6	4

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19	Global Saturated Tracking Control of a Quadcopter With Experimental Validation. , 2021, 5, 169-174.		19
20	Resilient Desynchronization for Decentralized Medium Access Control. , 2021, 5, 803-808.		9
21	Node and network resistance to bribery in multi-agent systems. Systems and Control Letters, 2021, 147, 104842.	1.3	5
22	Distributed controller design and performance optimization for discreteâ€time linear systems. Optimal Control Applications and Methods, 2021, 42, 126-143.	1.3	4
23	Nonlinear Ride Height Control of Active Air Suspension System with Output Constraints and Time-Varying Disturbances. Sensors, 2021, 21, 1539.	2.1	6
24	Attitude, body-fixed Earth rotation rate, and sensor bias estimation using single observations of direction of gravitational field. Automatica, 2021, 125, 109475.	3.0	4
25	The robust minimal controllability and observability problem. International Journal of Robust and Nonlinear Control, 2021, 31, 5033-5044.	2.1	5
26	Formation control of a leaderâ€“follower structure in three dimensional space using bearing measurements. Automatica, 2021, 128, 109567.	3.0	17
27	Eventâ€triggered global trajectory tracking control of a quadrotor: Synthesis, simulations, and experiments. International Journal of Robust and Nonlinear Control, 2021, 31, 6144-6165.	2.1	7
28	Quadrotor going through a window and landing: An image-based visual servo control approach. Control Engineering Practice, 2021, 112, 104827.	3.2	11
29	Decentralized Control for Multi-agent Missions Based on Flocking Rules. Lecture Notes in Electrical Engineering, 2021, , 445-454.	0.3	13
30	Distinguishability of discreteâ€time linear systems. International Journal of Robust and Nonlinear Control, 2021, 31, 1452-1478.	2.1	4
31	Kalman filtering technique for attitude estimation on SO(3) using single inertial vector observations. , 2021, , .		0
32	A microscopic-view Infection model based on linear systems. Information Sciences, 2020, 510, 1-15.	4.0	0
33	Hybrid Control for Robust and Global Tracking on Smooth Manifolds. IEEE Transactions on Automatic Control, 2020, 65, 1870-1885.	3.6	13
34	A 3-D Trailer Approach to Leader-Following Formation Control. IEEE Transactions on Control Systems Technology, 2020, 28, 2292-2308.	3.2	7
35	Adaptive vehicle posture and height synchronization control of active air suspension systems with multiple uncertainties. Nonlinear Dynamics, 2020, 99, 2109-2127.	2.7	21
36	Improved Maneuverability for Multirotor Aerial Vehicles using Globally Stabilizing Feedbacks. , 2020, , .		3

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37	A Rendezvous Algorithm for Multi-agent Systems in Disconnected Network Topologies. , 2020, , .		13
38	Global Trajectory Tracking for a Quadrotor through Event-Triggered Control: Synthesis, Simulations, and Experiments. , 2020, , .		2
39	Design and experimental validation of a nonlinear controller for underactuated surface vessels. Nonlinear Dynamics, 2020, 102, 2563-2581.	2.7	13
40	Earth-fixed trajectory and map online estimation: Building on GES sensor-based SLAM filters. Robotics and Autonomous Systems, 2020, 130, 103552.	3.0	1
41	Kalman Filter Cascade for Attitude Estimation on Rotating Earth. IEEE/ASME Transactions on Mechatronics, 2020, 25, 327-338.	3.7	4
42	Bearing-only formation control under persistence of excitation. , 2020, , .		6
43	A general discrete-time method to achieve resilience in consensus algorithms. , 2020, , .		6
44	Attitude observers aided by implicit measurements of the Earth angular velocity. , 2020, , .		1
45	Bearing Leader-Follower Formation Control under Persistence of Excitation. IFAC-PapersOnLine, 2020, 53, 5671-5676.	0.5	4
46	Global Practical Tracking for a Hovercraft with Unmeasured Linear Velocity and Disturbances. IFAC-PapersOnLine, 2020, 53, 8959-8964.	0.5	4
47	Adaptive Neural Network Control in Bilateral Teleoperation Systems with Full-state Constraints. , 2020, , .		3
48	Broadcast and Gossip Stochastic Average Consensus Algorithms in Directed Topologies. IEEE Transactions on Control of Network Systems, 2019, 6, 474-486.	2.4	35
49	Robust Motion Control of an Underactuated Hovercraft. IEEE Transactions on Control Systems Technology, 2019, 27, 2195-2208.	3.2	40
50	Nonlinear Backstepping Control of a Quadrotor-Slung Load System. IEEE/ASME Transactions on Mechatronics, 2019, 24, 2304-2315.	3.7	87
51	Robust global exponential stabilization on the <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" id="d1e30" altimg="si4.svg"><mml:mi>n</mml:mi></mml:math>-dimensional sphere with applications to trajectory tracking for quadrotors. Automatica, 2019, 110, 108534.	3.0	22
52	Attitude estimation using high-grade gyroscopes. Control Engineering Practice, 2019, 92, 104134.	3.2	5
53	Nonlinear Observer on SO(3) for Attitude Estimation on Rotating Earth Using Single Vector Measurements. , 2019, 3, 392-397.		9
54	A trajectory tracking control law for a quadrotor with slung load. Automatica, 2019, 106, 384-389.	3.0	46

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55	Robust Ride Height Control for Active Air Suspension Systems With Multiple Unmodeled Dynamics and Parametric Uncertainties. IEEE Access, 2019, 7, 59185-59199.	2.6	22
56	Attitude observer on the special orthogonal group with Earth velocity estimation. Systems and Control Letters, 2019, 126, 33-39.	1.3	5
57	Calibration of High-Grade Inertial Measurement Units Using a Rate Table. , 2019, 3, 1-4.		6
58	Globally exponentially stable attitude observer with Earth velocity estimation. Asian Journal of Control, 2019, 21, 1409-1422.	1.9	7
59	Path Following Controller Design for an Underactuated Hovercraft with External Disturbances. , 2019, , .		3
60	Sensitivity Analysis for Linear Systems based on Reachability Sets. , 2019, , .		3
61	Desynchronization for Decentralized Medium Access Control based on Gauss-Seidel Iterations. , 2019, , .		9
62	Adaptive Backstepping of Synergistic Hybrid Feedbacks with Application to Obstacle Avoidance. , 2019, , .		5
63	Trajectory Tracking Control of an Underactuated Autonomous Surface Craft in the Presence of Environmental Disturbances. , 2019, , .		0
64	Trajectory planning and control for drone replacement for multidrone cinematography. IFAC-PapersOnLine, 2019, 52, 334-339.	0.5	3
65	Trajectory Tracking Control of a nonlinear Autonomous Surface Vessel. , 2019, , .		2
66	Multi-vehicle Cooperative Control for Load Transportation. IFAC-PapersOnLine, 2019, 52, 358-363.	0.5	3
67	Quadrotor trajectory generation and tracking for aggressive maneuvers with attitude constraints. IFAC-PapersOnLine, 2019, 52, 55-60.	0.5	14
68	Aircraft Landing Using Dynamic Two-Dimensional Image-Based Guidance Control. IEEE Transactions on Aerospace and Electronic Systems, 2019, 55, 2104-2117.	2.6	5
69	Strategies for uncertainty optimization through motion planning in GES sensor-based SLAM. Robotics and Autonomous Systems, 2019, 113, 38-55.	3.0	3
70	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
71	Discrete-time distributed Kalman filter design for formations of autonomous vehicles. Control Engineering Practice, 2018, 75, 55-68.	3.2	43
72	Hovercraft Control With Dynamic Parameters Identification. IEEE Transactions on Control Systems Technology, 2018, 26, 785-796.	3.2	22

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73	LiDAR-Based Control of Autonomous Rotorcraft for the Inspection of Pierlike Structures. IEEE Transactions on Control Systems Technology, 2018, 26, 1430-1438.	3.2	17
74	Self-Triggered and Event-Triggered Set-Valued Observers. Information Sciences, 2018, 426, 61-86.	4.0	15
75	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
76	Nonlinear Attitude Observer on SO(3) Based on Single Body-Vector Measurements. , 2018, , .		3
77	A Globally Exponentially Stable Solution for Frequency Estimation. , 2018, , .		0
78	A PageRank Algorithm based on Asynchronous Gauss-Seidel Iterations. , 2018, , .		17
79	Going through a window and landing a quadrotor using optical flow. , 2018, , .		0
80	Source Localization and Network Topology Discovery in Infection Networks. , 2018, , .		1
81	Source Localization Based on Acoustic Single Direction Measurements. IEEE Transactions on Aerospace and Electronic Systems, 2018, 54, 2837-2852.	2.6	8
82	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
83	Stochastic and deterministic fault detection for randomized gossip algorithms. Automatica, 2017, 78, 46-60.	3.0	35
84	Synchronization of Multiagent Systems Using Event-Triggered and Self-Triggered Broadcasts. IEEE Transactions on Automatic Control, 2017, 62, 4741-4746.	3.6	91
85	Hybrid Stabilization of Linear Systems With Reverse Polytopic Input Constraints. IEEE Transactions on Automatic Control, 2017, 62, 6473-6480.	3.6	5
86	Setâ€based fault detection and isolation for detectable linear parameterâ€varying systems. International Journal of Robust and Nonlinear Control, 2017, 27, 4381-4397.	2.1	14
87	Discrete-time distributed Kalman filter design for multi-vehicle systems. , 2017, , .		5
88	Fault detection for LPV systems using Set-Valued Observers: A coprime factorization approach. Systems and Control Letters, 2017, 106, 32-39.	1.3	15
89	Leader following trajectory planning: A trailer-like approach. Automatica, 2017, 75, 77-87.	3.0	11
90	Eventâ€triggered output synchronization of heterogeneous multiâ€agent systems. International Journal of Robust and Nonlinear Control, 2017, 27, 1302-1338.	2.1	15

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91	Actuator Fault Detection and Isolation Based on Multiple-Model Adaptive Estimation (MMAE). Lecture Notes in Electrical Engineering, 2017, , 345-357.	0.3	0
92	Uncertainty characterization of the orthogonal Procrustes problem with arbitrary covariance matrices. Pattern Recognition, 2017, 61, 210-220.	5.1	13
93	Relaxed conditions for uniform complete observability and controllability of LTV systems with bounded realizations 1 1This work was supported by the FundaÃ§Ã£o para a CiÃªncia 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.	0.5	4
94	Hybrid feedback for global asymptotic stabilization on a compact manifold. , 2017, , .		5
95	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
96	Design and Experimental Validation of a USBL Underwater Acoustic Positioning System. Sensors, 2016, 16, 1491.	2.1	34
97	The variational attitude estimator in the presence of bias in angular velocity measurements. , 2016, , .		5
98	Relative attitude observers for three-platform formations with inertial spread observations. , 2016, , .		0
99	Landing of a Quadrotor on a Moving Target Using Dynamic Image-Based Visual Servo Control. IEEE Transactions on Robotics, 2016, 32, 1524-1535.	7.3	129
100	Exponential stabilization of a vectored-thrust vehicle using synergistic potential functions. , 2016, , .		0
101	Faultâ€tolerant control of an air heating fan using setâ€valued observers: An experimental evaluation. International Journal of Adaptive Control and Signal Processing, 2016, 30, 336-358.	2.3	3
102	On the stability of the continuous-time Kalman filter subject to exponentially decaying perturbations. Systems and Control Letters, 2016, 89, 41-46.	1.3	2
103	LiDAR-Based Control of Autonomous Rotorcraft for Inspection of Pole-Shaped Structures. Advances in Intelligent Systems and Computing, 2016, , 609-621.	0.5	1
104	Nonlinear Observer for 3D Rigid Body Motion Estimation Using Doppler Measurements. IEEE Transactions on Automatic Control, 2016, 61, 3580-3585.	3.6	12
105	Tightly coupled long baseline/ultra-short baseline integrated navigation system. International Journal of Systems Science, 2016, 47, 1837-1855.	3.7	21
106	Simultaneous localization and mapping for aerial vehicles: a 3-D sensor-based GAS filter. Autonomous Robots, 2016, 40, 881-902.	3.2	17
107	Robust Landing and Sliding Maneuver Hybrid Controller for a Quadrotor Vehicle. IEEE Transactions on Control Systems Technology, 2016, 24, 400-412.	3.2	49
108	Decentralized state observers for rangeâ€based position and velocity estimation in acyclic formations with fixed topologies. International Journal of Robust and Nonlinear Control, 2016, 26, 963-994.	2.1	9

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109	TÃ©cnico/University of Lisbon, 1049-001 Lisbon, Portugal. The work of Pedro Casau was partially supported by grants SFRH/BD/70656/2010 and the project PEst-OE/EEI/LA0009/2013 both from the FundaÃ§Ã£o para a CiÃªncia e a Tecnologia. Research by Carlos Silvestre has been supported by projects MYRG118(Y1-L3)-FST12-SSW and MYRG117(Y1-L3)-FST12-MKM of the University of Macau.. IFAC-PapersOnLine, 2015, 48, 283-288.	0.5	2
110	Homing on a moving dock for a quadrotor vehicle. , 2015, , .		3
111	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.	2.6	11
112	Self-Triggered Set-Valued Observers. , 2015, , .		5
113	Selfâ€triggered stateâ€feedback control of linear plants under bounded disturbances. International Journal of Robust and Nonlinear Control, 2015, 25, 1230-1246.	2.1	14
114	Stochastic Dynamic Causal Modelling of fMRI Data with Multiple-Model Kalman Filters. Methods of Information in Medicine, 2015, 54, 232-239.	0.7	4
115	On the distinguishability of HRF models in fMRI. Frontiers in Computational Neuroscience, 2015, 9, 54.	1.2	6
116	Torwards uncertainty optimization in active SLAM. , 2015, , .		3
117	A nonlinear trajectory tracking controller for helicopters: Design and experimental evaluation. , 2015, , .		3
118	Global exponential stabilization on the n-dimensional sphere. , 2015, , .		8
119	A trajectory tracking LQR controller for a quadrotor: Design and experimental evaluation. , 2015, , .		4
120	Finite-time convergence policies in state-dependent social networks. , 2015, , .		3
121	Pseudo-range navigation with clock offset and propagation speed estimation. , 2015, , .		0
122	State estimation of nonlinear systems using the Unscented Kalman Filter. , 2015, , .		3
123	A globally exponentially stable filter for bearing-only simultaneous localization and mapping in 3-D. , 2015, , .		2
124	Simultaneous Localization and mapping in sensor networks: A GES sensor-based filter with moving object tracking. , 2015, , .		1
125	from Daniel Silvestre was supported by the project FCT [UID/EEA/50009/2013] and with grant SFRH//BD/71206/2010, from FundaÃ§Ã£o para a CiÃªncia e a Tecnologia. J. Hespanha was supported by the U.S. Army Research Laboratory and the U.S. Army Research Office under grants No. W911NF-09-1-0553 and W911NF-09-D-0001. C. Silvestre was supported by project MYRG117(Y1-L3)-FST12-MKM of the University of Macau.. IFAC-PapersOnLine, 2015, 48, 446-451.	0.5	7
126	Globally convergent relative attitude observers for three-platform formations. , 2015, , .		1

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127	Navigation systems based on multiple bearing measurements. IEEE Transactions on Aerospace and Electronic Systems, 2015, 51, 2887-2899.	2.6	10
128	A globally asymptotically stabilizing trajectory tracking controller for fully actuated rigid bodies using landmarkâ€based information. International Journal of Robust and Nonlinear Control, 2015, 25, 3617-3640.	2.1	10
129	Distributed state estimation for linear multi-agent systems with time-varying measurement topology. Automatica, 2015, 54, 72-79.	3.0	35
130	Sensor-based globally exponentially stable range-only simultaneous localization and mapping. Robotics and Autonomous Systems, 2015, 68, 72-85.	3.0	12
131	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
132	Nonlinear Image-Based Visual Servo Controller for the Flare Maneuver of Fixed-Wing Aircraft Using Optical Flow. IEEE Transactions on Control Systems Technology, 2015, 23, 570-583.	3.2	29
133	Robust global trajectory tracking for a class of underactuated vehicles. Automatica, 2015, 58, 90-98.	3.0	60
134	Stochastic Networked Control Systems with Dynamic Protocols. Asian Journal of Control, 2015, 17, 99-110.	1.9	26
135	A Set-Valued Approach to FDI and FTC of Wind Turbines. IEEE Transactions on Control Systems Technology, 2015, 23, 245-263.	3.2	35
136	A Globally Stabilizing Path Following Controller for Rotorcraft With Wind Disturbance Rejection. IEEE Transactions on Control Systems Technology, 2015, 23, 708-714.	3.2	106
137	Fault Detection and Isolation in Inertial Measurement Units Based on Bounding Sets. IEEE Transactions on Automatic Control, 2015, 60, 1933-1938.	3.6	14
138	A twoâ€step control approach for docking of autonomous underwater vehicles. International Journal of Robust and Nonlinear Control, 2015, 25, 1528-1547.	2.1	24
139	Robust Outliers Detection and Classification for USBL Underwater Positioning Systems. Lecture Notes in Electrical Engineering, 2015, , 555-565.	0.3	7
140	A hybrid feedback controller for robust global trajectory tracking of quadrotor-like vehicles with minimized attitude error. , 2014, , .		1
141	Trailer-like leader following trajectory planning. , 2014, , .		1
142	A hybrid controller for global uniform exponential stabilization of linear systems with singular input constraints. , 2014, , .		2
143	Nonlinear observability and observer design through state augmentation. , 2014, , .		4
144	Landing on a moving target using image-based visual servo control. , 2014, , .		12

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145	Sensorâ€Based Long Baseline Navigation: Observability Analysis and Filter Design. Asian Journal of Control, 2014, 16, 974-994.	1.9	28
146	Three dimensional trajectory planner for real time leader following. , 2014, , .		1
147	Filter design for localization aided by direction and Doppler measurements. , 2014, , .		0
148	Design and validation of a linear parameter varying localization system. , 2014, , .		0
149	Multiple-model adaptive control using set-valued observers. International Journal of Robust and Nonlinear Control, 2014, 24, 2490-2511.	2.1	11
150	Output regulation for nonâ€square linear multiâ€rate systems. International Journal of Robust and Nonlinear Control, 2014, 24, 968-990.	2.1	8
151	A robust landing and sliding maneuver controller for a quadrotor vehicle on a sloped incline. , 2014, , .		7
152	Finite-time average consensus in a Byzantine environment using Set-Valued Observers. , 2014, , .		14
153	Output synchronization of heterogeneous LTI plants with event-triggered communication. , 2014, , .		8
154	A nonlinear quadrotor trajectory tracking controller with disturbance rejection. Control Engineering Practice, 2014, 26, 1-10.	3.2	136
155	A leader-following trajectory generator with application to quadrotor formation flight. Robotics and Autonomous Systems, 2014, 62, 1597-1609.	3.0	76
156	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.	2.0	11
157	Self-Triggered Output Feedback Control of Linear Plants in the Presence of Unknown Disturbances. IEEE Transactions on Automatic Control, 2014, 59, 3040-3045.	3.6	44
158	A Synthesis Method of LTI MIMO Robust Controllers for Uncertain LPV Plants. IEEE Transactions on Automatic Control, 2014, 59, 2234-2240.	3.6	11
159	A nonlinear quadrotor trajectory tracking controller with disturbance rejection. , 2014, , .		14
160	Trajectory Tracking Nonlinear Model Predictive Control for Autonomous Surface Craft. IEEE Transactions on Control Systems Technology, 2014, 22, 2160-2175.	3.2	75
161	Embedded Vehicle Dynamics Aiding for USBL/INS Underwater Navigation System. IEEE Transactions on Control Systems Technology, 2014, 22, 322-330.	3.2	58
162	Automatic 2-D LiDAR geometric calibration of installation bias. Robotics and Autonomous Systems, 2014, 62, 1116-1129.	3.0	7

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163	Attitude and earth velocity estimation - Part I: Globally exponentially stable observer. , 2014, , .		13
164	Model falsification using set-valued observers for a class of discrete-time dynamic systems: a coprime factorization approach. International Journal of Robust and Nonlinear Control, 2014, 24, 2928-2942.	2.1	11
165	Attitude and earth velocity estimation - Part II: Observer on the special orthogonal group. , 2014, , .		7
166	Stability of networked control systems with asynchronous renewal links: An impulsive systems approach. Automatica, 2013, 49, 402-413.	3.0	75
167	Hybrid Control Strategy for the Autonomous Transition Flight of a Fixed-Wing Aircraft. IEEE Transactions on Control Systems Technology, 2013, 21, 2194-2211.	3.2	22
168	Global attitude and gyro bias estimation based on set-valued observers. Systems and Control Letters, 2013, 62, 937-942.	1.3	7
169	Nonlinear Attitude Observer Based on Range and Inertial Measurements. IEEE Transactions on Control Systems Technology, 2013, 21, 1889-1897.	3.2	7
170	Stochastic Hybrid Systems with Renewal Transitions: Moment Analysis with Application to Networked Control Systems with Delays. SIAM Journal on Control and Optimization, 2013, 51, 1481-1499.	1.1	36
171	Preliminary results on the estimation performance of single range source localization. , 2013, , .		1
172	GES source localization based on discrete-time position and single range measurements. , 2013, , .		5
173	Global trajectory tracking for a class of underactuated vehicles. , 2013, , .		19
174	A received signal strength indication-based localization system. , 2013, , .		8
175	Tightly coupled ultrashort baseline and inertial navigation system for underwater vehicles: An experimental validation. Journal of Field Robotics, 2013, 30, 142-170.	3.2	79
176	Globally Asymptotically Stable Sensor-Based Simultaneous Localization and Mapping. IEEE Transactions on Robotics, 2013, 29, 1380-1395.	7.3	36
177	Globally exponentially stable filters for source localization and navigation aided by direction measurements. Systems and Control Letters, 2013, 62, 1065-1072.	1.3	25
178	Fault detection and isolation of LPV systems using set-valued observers: An application to a fixed-wing aircraft. Control Engineering Practice, 2013, 21, 242-252.	3.2	39
179	Decentralized linear state observers for vehicle formations with time-varying topologies. , 2013, , .		2
180	Experimental validation of a globally stabilizing feedback controller for a quadrotor aircraft with wind disturbance rejection. , 2013, , .		7

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181	GAS decentralized navigation filters in a continuous-discrete fixed topology framework. , 2013, , .		3
182	Gossip average consensus in a Byzantine environment using stochastic Set-Valued Observers. , 2013, , .		16
183	Preliminary results on globally asymptotically stable simultaneous localization and mapping in 3-D. , 2013, , .		11
184	Sensor-based globally asymptotically stable range-only simultaneous localization and mapping. , 2013, , .		3
185	Nonlinear observer for 3D rigid body motion. , 2013, , .		16
186	GES source localization and navigation based on discrete-time bearing measurements. , 2013, , .		6
187	Further results on the observability in magneto-inertial navigation. , 2013, , .		3
188	A novel leader-following strategy applied to formations of quadrotors. , 2013, , .		8
189	Experimental validation of a nonlinear quadrotor controller with wind disturbance rejection. , 2013, , .		2
190	GES tightly coupled attitude estimation based on a LBL/USBL positioning system. , 2013, , .		0
191	Trajectory tracking nonlinear model predictive control for autonomous surface craft. , 2013, , .		6
192	3-D inertial trajectory and map online estimation: Building on a GAS sensor-based SLAM filter. , 2013, , .		12
193	GAS tightly coupled LBL/USBL position and velocity filter for underwater vehicles. , 2013, , .		5
194	Observer based self-triggered control of linear plants with unknown disturbances. , 2012, , .		11
195	Visual servo aircraft control for tracking parallel curves. , 2012, , .		8
196	Observer based self-triggered control of an acyclic interconnection of linear plants. , 2012, , .		1
197	Saturated output feedback control of a quadrotor aircraft. , 2012, , .		21
198	Decentralized range-based linear motion estimation in acyclic vehicle formations with fixed topologies. , 2012, , .		3

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199	Position and velocity filters for intervention AUVs based on single range and depth measurements. , 2012, , .		6
200	Sensor-based simultaneous localization and mapping — Part I: GAS robocentric filter. , 2012, , .		7
201	A landmark-based controller for global asymptotic stabilization on SE(3). , 2012, , .		1
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