Carlos J F Silvestre

List of Publications by Year
in descending order

362 papers	6,714 citations	71102 41 h-index	114465 63 g-index
364 all docs	364 docs citations	364 times ranked	3803 citing authors

#	Article	IF	Citations
1	Trajectory Tracking for Autonomous Vehicles: An Integrated Approach to Guidance and Control. Journal of Guidance, Control, and Dynamics, 1998, 21, 29-38.	2.8	279
2	Geometric Approach to Strapdown Magnetometer Calibration in Sensor Frame. IEEE Transactions on Aerospace and Electronic Systems, 2011, 47, 1293-1306.	4.7	249
3	Coordinated Path-Following in the Presence of Communication Losses and Time Delays. SIAM Journal on Control and Optimization, 2009, 48, 234-265.	2.1	172
4	A nonlinear quadrotor trajectory tracking controller with disturbance rejection. Control Engineering Practice, 2014, 26, 1-10.	5.5	136
5	Single range aided navigation and source localization: Observability and filter design. Systems and Control Letters, 2011, 60, 665-673.	2.3	129
6	Landing of a Quadrotor on a Moving Target Using Dynamic Image-Based Visual Servo Control. IEEE Transactions on Robotics, 2016, 32, 1524-1535.	10.3	129
7	Cooperative control of multiple surface vessels in the presence of ocean currents and parametric model uncertainty. International Journal of Robust and Nonlinear Control, 2010, 20, 1549-1565.	3.7	109
8	A Globally Stabilizing Path Following Controller for Rotorcraft With Wind Disturbance Rejection. IEEE Transactions on Control Systems Technology, 2015, 23, 708-714.	5.2	106
9	A nonlinear position and attitude observer on SE(3) using landmark measurements. Systems and Control Letters, 2010, 59, 155-166.	2.3	99
10	Synchronization of Multiagent Systems Using Event-Triggered and Self-Triggered Broadcasts. IEEE Transactions on Automatic Control, 2017, 62, 4741-4746.	5.7	91
11	Nonlinear Backstepping Control of a Quadrotor-Slung Load System. IEEE/ASME Transactions on Mechatronics, 2019, 24, 2304-2315.	5.8	87
12	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
13	Robotic ocean vehicles for marine science applications: the European ASIMOV project. , 0, , .		76
14	A leader-following trajectory generator with application to quadrotor formation flight. Robotics and Autonomous Systems, 2014, 62, 1597-1609.	5.1	76
15	Stability of networked control systems with asynchronous renewal links: An impulsive systems approach. Automatica, 2013, 49, 402-413.	5.0	75
16	Trajectory Tracking Nonlinear Model Predictive Control for Autonomous Surface Craft. IEEE Transactions on Control Systems Technology, 2014, 22, 2160-2175.	5.2	75
17	Adaptive-Constrained Impedance Control for Human–Robot Co-Transportation. IEEE Transactions on Cybernetics, 2022, 52, 13237-13249.	9.5	74
18	On the design of gain-scheduled trajectory tracking controllers. International Journal of Robust and Nonlinear Control, 2002, 12, 797-839.	3.7	72

#	Article	IF	Citations
19	Coordinated path-following control of multiple underactuated autonomous vehicles in the presence of communication failures. , 2006, , .		72
20	Vehicle and Mission Control of the DELFIM Autonomous Surface Craft. , 2006, , .		69
21	Non-linear co-ordinated path following control of multiple wheeled robots with bidirectional communication constraints. International Journal of Adaptive Control and Signal Processing, 2007, 21, 133-157.	4.1	67
22	Depth control of the INFANTE AUV using gain-scheduled reduced order output feedback. Control Engineering Practice, 2007, 15, 883-895.	5.5	65
23	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
24	Cooperative control of multiple surface vessels with discreteâ€time periodic communications. International Journal of Robust and Nonlinear Control, 2012, 22, 398-419.	3.7	65
25	Volterra Integral Approach to Impulsive Renewal Systems: Application to Networked Control. IEEE Transactions on Automatic Control, 2012, 57, 607-619.	5.7	60
26	Robust global trajectory tracking for a class of underactuated vehicles. Automatica, 2015, 58, 90-98.	5.0	60
27	Embedded Vehicle Dynamics Aiding for USBL/INS Underwater Navigation System. IEEE Transactions on Control Systems Technology, 2014, 22, 322-330.	5.2	58
28	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
29	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
30	A GES attitude observer with single vector observations. Automatica, 2012, 48, 388-395.	5.0	55
31	A Bottom-Following Preview Controller for Autonomous Underwater Vehicles. IEEE Transactions on Control Systems Technology, 2009, 17, 257-266.	5.2	54
32	Position USBL/DVL sensor-based navigation filter in the presence of unknown ocean currents. Automatica, 2011, 47, 2604-2614.	5.0	53
33	Optimal position and velocity navigation filters for autonomous vehicles. Automatica, 2010, 46, 767-774.	5.0	49
34	Robust Landing and Sliding Maneuver Hybrid Controller for a Quadrotor Vehicle. IEEE Transactions on Control Systems Technology, 2016, 24, 400-412.	5.2	49
35	Embedded UAV model and LASER aiding techniques for inertial navigation systems. Control Engineering Practice, 2010, 18, 262-278.	5.5	48
36	Robust Take-Off for a Quadrotor Vehicle. IEEE Transactions on Robotics, 2012, 28, 734-742.	10.3	47

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37	Globally exponentially stable cascade observers for attitude estimation. Control Engineering Practice, 2012, 20, 148-155.	5.5	46
38	A trajectory tracking control law for a quadrotor with slung load. Automatica, 2019, 106, 384-389.	5.0	46
39	Control of the INFANTE AUV using gain scheduled static output feedback. Control Engineering Practice, 2004, 12, 1501-1509.	5.5	45
40	USBL/INS Tightly-Coupled Integration Technique for Underwater Vehicles. , 2006, , .		44
41	Self-Triggered Output Feedback Control of Linear Plants in the Presence of Unknown Disturbances. IEEE Transactions on Automatic Control, 2014, 59, 3040-3045.	5.7	44
42	Coordinated path following control of multiple wheeled robots using linearization techniques. International Journal of Systems Science, 2006, 37, 399-414.	5.5	43
43	A Nonlinear GPS/IMU based observer for rigid body attitude and position estimation. , 2008, , .		43
44	Discrete-time distributed Kalman filter design for formations of autonomous vehicles. Control Engineering Practice, 2018, 75, 55-68.	5.5	43
45	Navigation, guidance and control of AUVs: An application to the MARIUS vehicle. Control Engineering Practice, 1996, 4, 401-409.	5.5	42
46	A Sensor-Based Controller for Homing of Underactuated AUVs. IEEE Transactions on Robotics, 2009, 25, 701-716.	10.3	42
47	On the observability of linear motion quantities in navigation systems. Systems and Control Letters, 2011, 60, 101-110.	2.3	42
48	Robust Motion Control of an Underactuated Hovercraft. IEEE Transactions on Control Systems Technology, 2019, 27, 2195-2208.	5.2	40
49	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.	5.5	39
50	Fault Detection and Isolation of LTV systems using Set-Valued Observers. , 2010, , .		38
51	Adaptive Backstepping Control of a Quadcopter With Uncertain Vehicle Mass, Moment of Inertia, and Disturbances. IEEE Transactions on Industrial Electronics, 2022, 69, 549-559.	7.9	37
52	Landmark based nonlinear observer for rigid body attitude and position estimation. , 2007, , .		36
53	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.	2.1	36
54	Globally Asymptotically Stable Sensor-Based Simultaneous Localization and Mapping. IEEE Transactions on Robotics, 2013, 29, 1380-1395.	10.3	36

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55	Distributed state estimation for linear multi-agent systems with time-varying measurement topology. Automatica, 2015, 54, 72-79.	5.0	35
56	A Set-Valued Approach to FDI and FTC of Wind Turbines. IEEE Transactions on Control Systems Technology, 2015, 23, 245-263.	5.2	35
57	Stochastic and deterministic fault detection for randomized gossip algorithms. Automatica, 2017, 78, 46-60.	5.0	35
58	Broadcast and Gossip Stochastic Average Consensus Algorithms in Directed Topologies. IEEE Transactions on Control of Network Systems, 2019, 6, 474-486.	3.7	35
59	Cooperative Autonomous Marine Vehicle motion control in the scope of the EU GREX Project: Theory and Practice. , 2009, , .		34
60	Design and Experimental Validation of a USBL Underwater Acoustic Positioning System. Sensors, 2016, 16, 1491.	3.8	34
61	Affine Parameter-Dependent Preview Control for Rotorcraft Terrain Following Flight. Journal of Guidance, Control, and Dynamics, 2006, 29, 1350-1359.	2.8	32
62	Synchronization in multi-agent systems with switching topologies and non-homogeneous communication delays. , 2007, , .		32
63	MARIUS: an autonomous underwater vehicle for coastal oceanography. IEEE Robotics and Automation Magazine, 1997, 4, 46-59.	2.0	31
64	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
65	Output-feedback control for stabilization on. Systems and Control Letters, 2008, 57, 1013-1022.	2.3	31
66	TRIDENT: A Framework for Autonomous Underwater Intervention Missions with Dexterous Manipulation Capabilities. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2010, 43, 187-192.	0.4	31
67	Single beacon navigation: Observability analysis and filter design. , 2010, , .		30
68	On the distinguishability of discrete linear time-invariant dynamic systems. , 2011, , .		30
69	Dynamic Modeling and Stability Analysis of Model-Scale Helicopters with Bell-Hiller Stabilizing Bar. , 2003, , .		29
70	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.	5.2	29
71	Decentralized observers for position and velocity estimation in vehicle formations with fixed topologies. Systems and Control Letters, 2012, 61, 443-453.	2.3	28
72	Sensorâ€Based Long Baseline Navigation: Observability Analysis and Filter Design. Asian Journal of Control, 2014, 16, 974-994.	3.0	28

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73	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
74	Stochastic Networked Control Systems with Dynamic Protocols. Asian Journal of Control, 2015, 17, 99-110.	3.0	26
75	Control of an AUV in the vertical and horizontal planes: system design and tests at sea. Transactions of the Institute of Measurement and Control, 1997, 19, 126-138.	1.7	25
76	Globally exponentially stable filters for source localization and navigation aided by direction measurements. Systems and Control Letters, 2013, 62, 1065-1072.	2.3	25
77	A Path-Following Preview Controller for Autonomous Air Vehicles. , 2006, , .		24
78	Low-cost Attitude and Heading Reference System: Filter design and experimental evaluation. , 2010, , .		24
79	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
80	Robust take-off and landing for a quadrotor vehicle. , 2010, , .		23
81	A Nonlinear Attitude Observer Based on Active Vision and Inertial Measurements. IEEE Transactions on Robotics, 2011, 27, 664-677.	10.3	23
82	Hybrid Control Strategy for the Autonomous Transition Flight of a Fixed-Wing Aircraft. IEEE Transactions on Control Systems Technology, 2013, 21, 2194-2211.	5.2	22
83	Hovercraft Control With Dynamic Parameters Identification. IEEE Transactions on Control Systems Technology, 2018, 26, 785-796.	5.2	22
84	Robust global exponential stabilization on the n-dimensional sphere with applications to trajectory tracking for quadrotors. Automatica, 2019, 110, 108534.	5.0	22
85	Robust Ride Height Control for Active Air Suspension Systems With Multiple Unmodeled Dynamics and Parametric Uncertainties. IEEE Access, 2019, 7, 59185-59199.	4.2	22
86	Autolanding Controller for a Fixed Wing Unmanned Air Vehicle. , 2007, , .		21
87	Rotorcraft path following control for extended flight envelope coverage. , 2009, , .		21
88	Sensor-based complementary globally asymptotically stable filters for attitude estimation. , 2009, , .		21
89	Saturated output feedback control of a quadrotor aircraft. , 2012, , .		21
90	Tightly coupled long baseline/ultra-short baseline integrated navigation system. International Journal of Systems Science, 2016, 47, 1837-1855.	5.5	21

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91	Adaptive vehicle posture and height synchronization control of active air suspension systems with multiple uncertainties. Nonlinear Dynamics, 2020, 99, 2109-2127.	5.2	21
92	Path-Following Control for Coordinated Turn Aircraft Maneuvers. , 2007, , .		20
93	Coordinated Path Following Control of Multiple Wheeled Robots with Directed Communication Links. , 0, , .		19
94	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
95	Design and experimental evaluation of an integrated USBL/INS system for AUVs. , 2010, , .		19
96	Global trajectory tracking for a class of underactuated vehicles. , 2013, , .		19
97	Global Saturated Tracking Control of a Quadcopter With Experimental Validation. , 2021, 5, 169-174.		19
98	Self-triggered output feedback control of linear plants. , 2011, , .		18
99	GES integrated LBL/USBL navigation system for underwater vehicles. , 2012, , .		18
100	Continuous-time consensus with discrete-time communications. Systems and Control Letters, 2012, 61, 788-796.	2.3	18
101	Geometric finite-time inner-outer loop trajectory tracking control strategy for quadrotor slung-load transportation. Nonlinear Dynamics, 2022, 107, 2291-2308.	5.2	18
102	Simultaneous localization and mapping for aerial vehicles: a 3-D sensor-based GAS filter. Autonomous Robots, 2016, 40, 881-902.	4.8	17
103	LiDAR-Based Control of Autonomous Rotorcraft for the Inspection of Pierlike Structures. IEEE Transactions on Control Systems Technology, 2018, 26, 1430-1438.	5.2	17
104	A PageRank Algorithm based on Asynchronous Gauss-Seidel Iterations. , 2018, , .		17
105	General resilient consensus algorithms. International Journal of Control, 2022, 95, 1482-1496.	1.9	17
106	Formation control of a leaderâ€"follower structure in three dimensional space using bearing measurements. Automatica, 2021, 128, 109567.	5.0	17
107	Discrete time-varying attitude complementary filter. , 2009, , .		16
108	Gossip average consensus in a Byzantine environment using stochastic Set-Valued Observers. , 2013, , .		16

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109	Nonlinear observer for 3D rigid body motion. , 2013, , .		16
110	Nonlinear trajectory tracking control of a quadrotor vehicle. , 2009, , .		15
111	Single range navigation in the presence of constant unknown drifts. , 2009, , .		15
112	Control of impulsive renewal systems: Application to direct design in networked control. , 2009, , .		15
113	Multiple-model adaptive control with set-valued observers. , 2009, , .		15
114	Using petri nets to specify and execute missions for autonomous underwater vehicles. , 2009, , .		15
115	Fault detection for LPV systems using Set-Valued Observers: A coprime factorization approach. Systems and Control Letters, 2017, 106, 32-39.	2.3	15
116	Event‐triggered output synchronization of heterogeneous multi‐agent systems. International Journal of Robust and Nonlinear Control, 2017, 27, 1302-1338.	3.7	15
117	Self-Triggered and Event-Triggered Set-Valued Observers. Information Sciences, 2018, 426, 61-86.	6.9	15
118	Self-triggered state feedback control of linear plants under bounded disturbances. , 2010, , .		14
119	Nonlinear IBVS controller for the flare maneuver of fixed-wing aircraft using optical flow. , 2010, , .		14
120	Combination of Lyapunov and Density Functions for Stability of Rotational Motion. IEEE Transactions on Automatic Control, 2011, 56, 2599-2607.	5.7	14
121	Stability overlay for adaptive control laws. Automatica, 2011, 47, 1007-1014.	5.0	14
122	Finite-time average consensus in a Byzantine environment using Set-Valued Observers. , 2014, , .		14
123	A nonlinear quadrotor trajectory tracking controller with disturbance rejection. , 2014, , .		14
124	Self‐triggered state‐feedback control of linear plants under bounded disturbances. International Journal of Robust and Nonlinear Control, 2015, 25, 1230-1246.	3.7	14
125	Fault Detection and Isolation in Inertial Measurement Units Based on Bounding Sets. IEEE Transactions on Automatic Control, 2015, 60, 1933-1938.	5.7	14
126	Set‐based fault detection and isolation for detectable linear parameter‐varying systems. International Journal of Robust and Nonlinear Control, 2017, 27, 4381-4397.	3.7	14

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127	Quadrotor trajectory generation and tracking for aggressive maneuvers with attitude constraints. IFAC-PapersOnLine, 2019, 52, 55-60.	0.9	14
128	Almost global stabilization of fully-actuated rigid bodies. Systems and Control Letters, 2009, 58, 639-645.	2.3	13
129	A time differences of arrivalâ€based homing strategy for autonomous underwater vehicles. International Journal of Robust and Nonlinear Control, 2010, 20, 1758-1773.	3.7	13
130	Vision-based control for rigid body stabilization. Automatica, 2011, 47, 1020-1027.	5.0	13
131	Autonomous Transition Flight for a Vertical Take-Off and Landing aircraft. , 2011, , .		13
132	Attitude and earth velocity estimation - Part I: Globally exponentially stable observer. , 2014, , .		13
133	Uncertainty characterization of the orthogonal Procrustes problem with arbitrary covariance matrices. Pattern Recognition, 2017, 61, 210-220.	8.1	13
134	Hybrid Control for Robust and Global Tracking on Smooth Manifolds. IEEE Transactions on Automatic Control, 2020, 65, 1870-1885.	5.7	13
135	A Rendezvous Algorithm for Multi-agent Systems in Disconnected Network Topologies. , 2020, , .		13
136	Design and experimental validation of a nonlinear controller for underactuated surface vessels. Nonlinear Dynamics, 2020, 102, 2563-2581.	5.2	13
137	Decentralized Control for Multi-agent Missions Based on Flocking Rules. Lecture Notes in Electrical Engineering, 2021, , 445-454.	0.4	13
138	Position and velocity optimal sensor-based navigation filters for UAVs. , 2009, , .		12
139	Multiple vehicles mission coordination using Petri nets. , 2010, , .		12
140	3-D inertial trajectory and map online estimation: Building on a GAS sensor-based SLAM filter. , 2013, , .		12
141	Landing on a moving target using image-based visual servo control. , 2014, , .		12
142	Sensor-based globally exponentially stable range-only simultaneous localization and mapping. Robotics and Autonomous Systems, 2015, 68, 72-85.	5.1	12
143	Nonlinear Observer for 3D Rigid Body Motion Estimation Using Doppler Measurements. IEEE Transactions on Automatic Control, 2016, 61, 3580-3585.	5.7	12
144	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

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145	Coordinated control of multiple vehicles with discrete-time periodic communications. , 2007, , .		11
146	Stability overlay for adaptive control laws applied to linear time-invariant systems. , 2009, , .		11
147	On the design of multi€rate tracking controllers: Application to rotorcraft guidance and control. International Journal of Robust and Nonlinear Control, 2010, 20, 1879-1902.	3.7	11
148	Observer based self-triggered control of linear plants with unknown disturbances. , 2012, , .		11
149	A two-step control strategy for docking of Autonomous Underwater Vehicles. , 2012, , .		11
150	Preliminary results on globally asymptotically stable simultaneous localization and mapping in 3-D. , 2013, , .		11
151	Multiple-model adaptive control using set-valued observers. International Journal of Robust and Nonlinear Control, 2014, 24, 2490-2511.	3.7	11
152	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
153	A Synthesis Method of LTI MIMO Robust Controllers for Uncertain LPV Plants. IEEE Transactions on Automatic Control, 2014, 59, 2234-2240.	5.7	11
154	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.	3.7	11
155	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
156	Leader following trajectory planning: A trailer-like approach. Automatica, 2017, 75, 77-87.	5.0	11
157	Quadrotor going through a window and landing: An image-based visual servo control approach. Control Engineering Practice, 2021, 112, 104827.	5.5	11
158	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.	6.4	11
159	Aggressive maneuvers for a quadrotor-slung-load system through fast trajectory generation and tracking. Autonomous Robots, 2022, 46, 499-513.	4.8	11
160	Output-feedback control for almost global stabilization of fully-actuated rigid bodies. , 2008, , .		10
161	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
162	Reactive power compensation using on board stored energy in Electric Vehicles. , 2012, , .		10

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163	Navigation systems based on multiple bearing measurements. IEEE Transactions on Aerospace and Electronic Systems, 2015, 51, 2887-2899.	4.7	10
164	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.	3.7	10
165	Relaxed bearing rigidity and bearing formation control under persistence of excitation. Automatica, 2022, 141, 110289.	5.0	10
166	Stability of impulsive systems driven by renewal processes. , 2009, , .		9
167	Model Falsification of LPV Systems Using Set-Valued Observers. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2011, 44, 1546-1551.	0.4	9
168	Average consensus and gossip algorithms in networks with stochastic asymmetric communications. , 2011, , .		9
169	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.	3.7	9
170	Nonlinear Observer on SO(3) for Attitude Estimation on Rotating Earth Using Single Vector Measurements. , 2019, 3, 392-397.		9
171	Desynchronization for Decentralized Medium Access Control based on Gauss-Seidel Iterations. , 2019, , .		9
172	Resilient Desynchronization for Decentralized Medium Access Control. , 2021, 5, 803-808.		9
173	Adaptive control with unknown mass estimation for a quadrotor-slung-load system. ISA Transactions, 2023, 133, 412-423.	5.7	9
174	Inertial Navigation System Aided by GPS and Selective Frequency Contents of Vector Measurements. , 2005, , .		8
175	A Quaternion Sensor Based Controller for Homing of Underactuated AUVs. , 2006, , .		8
176	Stabilityâ€and performanceâ€robustness tradeoffs: MIMO mixedâ€Âµ *vs* complexâ€Âµ design. International Journal of Robust and Nonlinear Control, 2009, 19, 259-294.	3.7	8
177	Self-triggered observer based control of linear plants*. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2011, 44, 10074-10079.	0.4	8
178	Visual servo aircraft control for tracking parallel curves. , 2012, , .		8
179	Sensor-based simultaneous localization and mapping — Part II: Online inertial map and trajectory estimation. , 2012, , .		8
180	A received signal strength indication-based localization system. , 2013, , .		8

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181	A novel leader-following strategy applied to formations of quadrotors. , 2013, , .		8
182	Output regulation for nonâ€square linear multiâ€rate systems. International Journal of Robust and Nonlinear Control, 2014, 24, 968-990.	3.7	8
183	Output synchronization of heterogeneous LTI plants with event-triggered communication. , 2014, , .		8
184	Global exponential stabilization on the n-dimensional sphere. , 2015, , .		8
185	Source Localization Based on Acoustic Single Direction Measurements. IEEE Transactions on Aerospace and Electronic Systems, 2018, 54, 2837-2852.	4.7	8
186	A 3D PATH-FOLLOWING VELOCITY-TRACKING CONTROLLER FOR AUTONOMOUS VEHICLES. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2005, 38, 73-78.	0.4	7
187	Nonlinear coordinated path following control of multiple wheeled robots with communication constraints. , 0, , .		7
188	Further evaluation of the RMMAC method with time-varying parameters. , 2007, , .		7
189	Necessary and sufficient conditions for the observability of linear motion quantities in strapdown navigation systems. , 2009, , .		7
190	Underwater vehicle technology in the European Research Project VENUS. Underwater Technology, 2009, 28, 175-185.	0.3	7
191	Fault Detection and Isolation of an Aircraft Using Set-Valued Observers *. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2010, 43, 398-403.	0.4	7
192	Impulsive systems triggered by superposed renewal processes. , 2010, , .		7
193	GES Attitude Observers â€" Part II: Single Vector Observations. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2011, 44, 2991-2996.	0.4	7
194	Vector-Based Attitude Filter for Space Navigation. Journal of Intelligent and Robotic Systems: Theory and Applications, 2011, 64, 221-243.	3.4	7
195	Sensor-based simultaneous localization and mapping — Part I: GAS robocentric filter. , 2012, , .		7
196	Global attitude and gyro bias estimation based on set-valued observers. Systems and Control Letters, 2013, 62, 937-942.	2.3	7
197	Nonlinear Attitude Observer Based on Range and Inertial Measurements. IEEE Transactions on Control Systems Technology, 2013, 21, 1889-1897.	5.2	7
198	Experimental validation of a globally stabilizing feedback controller for a quadrotor aircraft with wind disturbance rejection. , 2013, , .		7

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199	A robust landing and sliding maneuver controller for a quadrotor vehicle on a sloped incline. , 2014, , .		7
200	Automatic 2-D LiDAR geometric calibration of installation bias. Robotics and Autonomous Systems, 2014, 62, 1116-1129.	5.1	7
201	Attitude and earth velocity estimation - Part II: Observer on the special orthogonal group. , 2014, , .		7
202	Distributed Fault Detection Using Relative Information in Linear Multi-Agent Networks ˜... ˜...The work 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.	0.9	7
203	Globally exponentially stable attitude observer with Earth velocity estimation. Asian Journal of Control, 2019, 21, 1409-1422.	3.0	7
204	A 3-D Trailer Approach to Leader-Following Formation Control. IEEE Transactions on Control Systems Technology, 2020, 28, 2292-2308.	5.2	7
205	Cooperative Path Following Control of Multiple Quadcopters With Unknown External Disturbances. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2022, 52, 667-679.	9.3	7
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