

Rita Cunha

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

94
papers

1,221
citations

20
h-index

32
g-index

106
ext. papers

1,584
ext. citations

3.5
avg. IF

4.81
L-index

#	Paper	IF	Citations
94	A nonlinear quadrotor trajectory tracking controller with disturbance rejection. <i>Control Engineering Practice</i> , 2014 , 26, 1-10	3.9	105
93	Landing of a Quadrotor on a Moving Target Using Dynamic Image-Based Visual Servo Control. <i>IEEE Transactions on Robotics</i> , 2016 , 32, 1524-1535	6.5	86
92	A nonlinear position and attitude observer on SE(3) using landmark measurements. <i>Systems and Control Letters</i> , 2010 , 59, 155-166	2.4	82
91	A Globally Stabilizing Path Following Controller for Rotorcraft With Wind Disturbance Rejection. <i>IEEE Transactions on Control Systems Technology</i> , 2015 , 23, 708-714	4.8	76
90	A leader-following trajectory generator with application to quadrotor formation flight. <i>Robotics and Autonomous Systems</i> , 2014 , 62, 1597-1609	3.5	50
89	Trajectory Tracking Nonlinear Model Predictive Control for Autonomous Surface Craft. <i>IEEE Transactions on Control Systems Technology</i> , 2014 , 22, 2160-2175	4.8	49
88	A Bottom-Following Preview Controller for Autonomous Underwater Vehicles. <i>IEEE Transactions on Control Systems Technology</i> , 2009 , 17, 257-266	4.8	41
87	Robust Landing and Sliding Maneuver Hybrid Controller for a Quadrotor Vehicle. <i>IEEE Transactions on Control Systems Technology</i> , 2016 , 24, 400-412	4.8	40
86	Nonlinear Backstepping Control of a Quadrotor-Slung Load System. <i>IEEE/ASME Transactions on Mechatronics</i> , 2019 , 24, 2304-2315	5.5	35
85	Robust global trajectory tracking for a class of underactuated vehicles. <i>Automatica</i> , 2015 , 58, 90-98	5.7	32
84	Robust Take-Off for a Quadrotor Vehicle. <i>IEEE Transactions on Robotics</i> , 2012 , 28, 734-742	6.5	32
83	Affine Parameter-Dependent Preview Control for Rotorcraft Terrain Following Flight. <i>Journal of Guidance, Control, and Dynamics</i> , 2006 , 29, 1350-1359	2.1	27
82	Output-feedback control for stabilization on SE(3). <i>Systems and Control Letters</i> , 2008 , 57, 1013-1022	2.4	26
81	Landmark based nonlinear observer for rigid body attitude and position estimation 2007 ,		25
80	Dynamic Modeling and Stability Analysis of Model-Scale Helicopters with Bell-Hiller Stabilizing Bar 2003 ,		25
79	Nonlinear Image-Based Visual Servo Controller for the Flare Maneuver of Fixed-Wing Aircraft Using Optical Flow. <i>IEEE Transactions on Control Systems Technology</i> , 2015 , 23, 570-583	4.8	22
78	Robust Motion Control of an Underactuated Hovercraft. <i>IEEE Transactions on Control Systems Technology</i> , 2019 , 27, 2195-2208	4.8	22

77	Cooperative Autonomous Marine Vehicle motion control in the scope of the EU GREX Project: Theory and Practice 2009 ,		22
76	A trajectory tracking control law for a quadrotor with slung load. <i>Automatica</i> , 2019 , 106, 384-389	5.7	20
75	A Nonlinear Attitude Observer Based on Active Vision and Inertial Measurements. <i>IEEE Transactions on Robotics</i> , 2011 , 27, 664-677	6.5	20
74	Robust take-off and landing for a quadrotor vehicle 2010 ,		20
73	Rotorcraft path following control for extended flight envelope coverage 2009 ,		18
72	A Path-Following Preview Controller for Autonomous Air Vehicles 2006 ,		18
71	Path-Following Control for Coordinated Turn Aircraft Maneuvers 2007 ,		17
70	Cooperative Control of Multiple Marine Vehicles Theoretical Challenges and Practical Issues. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2009 , 42, 412-417		16
69	Global trajectory tracking for a class of underactuated vehicles 2013 ,		15
68	LiDAR-Based Control of Autonomous Rotorcraft for the Inspection of Pierlike Structures. <i>IEEE Transactions on Control Systems Technology</i> , 2018 , 26, 1430-1438	4.8	12
67	Nonlinear IBVS controller for the flare maneuver of fixed-wing aircraft using optical flow 2010 ,		12
66	Autolanding Controller for a Fixed Wing Unmanned Air Vehicle 2007 ,		12
65	A nonlinear quadrotor trajectory tracking controller with disturbance rejection 2014 ,		10
64	Almost global stabilization of fully-actuated rigid bodies. <i>Systems and Control Letters</i> , 2009 , 58, 639-645	2.4	10
63	Gossip average consensus in a Byzantine environment using stochastic Set-Valued Observers 2013 ,		9
62	Vision-based control for rigid body stabilization. <i>Automatica</i> , 2011 , 47, 1020-1027	5.7	9
61	A Multidrone Approach for Autonomous Cinematography Planning. <i>Advances in Intelligent Systems and Computing</i> , 2018 , 337-349	0.4	9
60	Landing on a moving target using image-based visual servo control 2014 ,		8

59	Visual servo aircraft control for tracking parallel curves 2012 ,		8
58	On the design of multi-rate tracking controllers: Application to rotorcraft guidance and control. <i>International Journal of Robust and Nonlinear Control</i> , 2010 , 20, 1879-1902	3.6	8
57	Leader following trajectory planning: A trailer-like approach. <i>Automatica</i> , 2017 , 75, 77-87	5.7	7
56	A globally asymptotically stabilizing trajectory tracking controller for fully actuated rigid bodies using landmark-based information. <i>International Journal of Robust and Nonlinear Control</i> , 2015 , 25, 3617-3640	3.6	7
55	Output-feedback control for almost global stabilization of fully-actuated rigid bodies 2008 ,		7
54	Optimal trajectory planning for cinematography with multiple Unmanned Aerial Vehicles. <i>Robotics and Autonomous Systems</i> , 2021 , 140, 103778	3.5	7
53	Quadrotor trajectory generation and tracking for aggressive maneuvers with attitude constraints. <i>IFAC-PapersOnLine</i> , 2019 , 52, 55-60	0.7	7
52	2021 , 5, 169-174		7
51	. <i>IEEE Transactions on Industrial Electronics</i> , 2021 , 1-1	8.9	7
50	Underwater vehicle technology in the European Research Project VENUS. <i>Underwater Technology</i> , 2009 , 28, 175-185	0.3	6
49	. <i>IEEE Access</i> , 2020 , 8, 201300-201316	3.5	6
48	Nonlinear Attitude Observer Based on Range and Inertial Measurements. <i>IEEE Transactions on Control Systems Technology</i> , 2013 , 21, 1889-1897	4.8	5
47	Hybrid feedback for global asymptotic stabilization on a compact manifold 2017 ,		5
46	Terrain Avoidance Nonlinear Model Predictive Control for Autonomous Rotorcraft. <i>Journal of Intelligent and Robotic Systems: Theory and Applications</i> , 2012 , 68, 69-85	2.9	5
45	Output-feedback control for stabilization on SE(3) 2006 ,		5
44	A 3D PATH-FOLLOWING VELOCITY-TRACKING CONTROLLER FOR AUTONOMOUS VEHICLES. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2005 , 38, 73-78		5
43	Hybrid Control for Robust and Global Tracking on Smooth Manifolds. <i>IEEE Transactions on Automatic Control</i> , 2020 , 65, 1870-1885	5.9	5
42	Nonlinear trajectory tracking control of a quadrotor vehicle 2009 ,		4

41	A Bottom-Following Preview Controller for Autonomous Underwater Vehicles 2006,		4
40	2007,		4
39	On the Design of Multi-Rate Tracking Controllers: An Application to Rotorcraft Guidance and Control 2007,		4
38	Formation control of a leader-follower structure in three dimensional space using bearing measurements. <i>Automatica</i> , 2021 , 128, 109567	5-7	4
37	A trajectory tracking LQR controller for a quadrotor: Design and experimental evaluation 2015,		3
36	A robust landing and sliding maneuver controller for a quadrotor vehicle on a sloped incline 2014,		3
35	Experimental validation of a globally stabilizing feedback controller for a quadrotor aircraft with wind disturbance rejection 2013,		3
34	Vision-based quadrotor stabilization using a pan and tilt camera 2010,		3
33	L1 adaptive control for autonomous rotorcraft 2009,		3
32	A dynamic estimator on SE(3) using range-only measurements 2008,		3
31	A 3-D Trailer Approach to Leader-Following Formation Control. <i>IEEE Transactions on Control Systems Technology</i> , 2020 , 28, 2292-2308	4.8	3
30	. <i>IEEE Transactions on Aerospace and Electronic Systems</i> , 2019 , 55, 2104-2117	3-7	3
29	Integrated Visual Servoing Solution to Quadrotor Stabilization and Attitude Estimation Using a Pan and Tilt Camera. <i>IEEE Transactions on Control Systems Technology</i> , 2019 , 27, 14-29	4.8	3
28	Optimal Trajectory Planning for Autonomous Drone Cinematography 2019,		2
27	A nonlinear trajectory tracking controller for helicopters: Design and experimental evaluation 2015		2
26	A novel leader-following strategy applied to formations of quadrotors 2013,		2
25	Integrated solution to quadrotor stabilization and attitude estimation using a pan and tilt camera 2012,		2
24	On the design of rotorcraft landing controllers 2008,		2

23	Real-time Trajectory Generation for Multiple Drones using Bézier Curves. <i>IFAC-PapersOnLine</i> , 2020 , 53, 9276-9281	0.7	2
22	Multi-vehicle Cooperative Control for Load Transportation. <i>IFAC-PapersOnLine</i> , 2019 , 52, 358-363	0.7	2
21	Cooperative Motion Planning with Time, Energy and Active Navigation Constraints 2018 ,		2
20	Quadrotor going through a window and landing: An image-based visual servo control approach. <i>Control Engineering Practice</i> , 2021 , 112, 104827	3.9	2
19	A Control Algorithm for Early Wildfire Detection Using Aerial Sensor Networks: Modeling and Simulation. <i>Drones</i> , 2022 , 6, 44	5.4	2
18	LiDAR-Based Control of Autonomous Rotorcraft for Inspection of Pole-Shaped Structures. <i>Advances in Intelligent Systems and Computing</i> , 2016 , 609-621	0.4	1
17	Homing on a moving dock for a quadrotor vehicle 2015 ,		1
16	A hybrid feedback controller for robust global trajectory tracking of quadrotor-like vehicles with minimized attitude error 2014 ,		1
15	Trailer-like leader following trajectory planning 2014 ,		1
14	Three dimensional trajectory planner for real time leader following 2014 ,		1
13	A landmark-based controller for global asymptotic stabilization on SE(3) 2012 ,		1
12	Terrain Following Controller for Affine Parameter-Dependent Systems: An Application to Model-Scale Helicopters 2005 ,		1
11	Global Practical Tracking for a Hovercraft with Unmeasured Linear Velocity and Disturbances. <i>IFAC-PapersOnLine</i> , 2020 , 53, 8959-8964	0.7	1
10	Planning Parcel Relay Manoeuvres for Quadrotors 2021 ,		1
9	Path Following Controller Design for an Underactuated Hovercraft with External Disturbances 2019 ,		1
8	Trajectory planning and control for drone replacement for multidrone cinematography. <i>IFAC-PapersOnLine</i> , 2019 , 52, 334-339	0.7	1
7	Relaxed bearing rigidity and bearing formation control under persistence of excitation. <i>Automatica</i> , 2022 , 141, 110289	5.7	1
6	Distributed Formation Control of Double-Integrator Vehicles with Disturbance Rejection. <i>IFAC-PapersOnLine</i> , 2020 , 53, 3118-3123	0.7	0

- 5 Geometric finite-time inner-outer loop trajectory tracking control strategy for quadrotor slung-load transportation. *Nonlinear Dynamics*, 1 5 0
- 4 Cooperative Path Following Control of Multiple Quadcopters With Unknown External Disturbances. *IEEE Transactions on Systems, Man, and Cybernetics: Systems*, 2020, 1-13 7.3 0
- 3 Trajectory Generation for Drones in Confined Spaces Using an Ellipsoid Model of the Body 2022, 6, 1022-1027 0
- 2 An Experimentally Validated Attitude Observer Based on Range and Inertial Measurements*. *IFAC Postprint Volumes IPPV / International Federation of Automatic Control*, 2011, 44, 13807-13812
- 1 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 0.4