

# Rita Cunha

## List of Publications by Year in Descending Order

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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	Trajectory Generation for Drones in Confined Spaces Using an Ellipsoid Model of the Body <b>2022</b> , 6, 1022-1027		0
93	A Control Algorithm for Early Wildfire Detection Using Aerial Sensor Networks: Modeling and Simulation. <i>Drones</i> , <b>2022</b> , 6, 44	5.4	2
92	Relaxed bearing rigidity and bearing formation control under persistence of excitation. <i>Automatica</i> , <b>2022</b> , 141, 110289	5.7	1
91	Optimal trajectory planning for cinematography with multiple Unmanned Aerial Vehicles. <i>Robotics and Autonomous Systems</i> , <b>2021</b> , 140, 103778	3.5	7
90	Planning Parcel Relay Manoeuvres for Quadrotors <b>2021</b> ,		1
89	Formation control of a leader-follower structure in three dimensional space using bearing measurements. <i>Automatica</i> , <b>2021</b> , 128, 109567	5.7	4
88	<b>2021</b> , 5, 169-174		7
87	Quadrotor going through a window and landing: An image-based visual servo control approach. <i>Control Engineering Practice</i> , <b>2021</b> , 112, 104827	3.9	2
86	. <i>IEEE Transactions on Industrial Electronics</i> , <b>2021</b> , 1-1	8.9	7
85	Global Practical Tracking for a Hovercraft with Unmeasured Linear Velocity and Disturbances. <i>IFAC-PapersOnLine</i> , <b>2020</b> , 53, 8959-8964	0.7	1
84	Distributed Formation Control of Double-Integrator Vehicles with Disturbance Rejection. <i>IFAC-PapersOnLine</i> , <b>2020</b> , 53, 3118-3123	0.7	0
83	Real-time Trajectory Generation for Multiple Drones using Bézier Curves. <i>IFAC-PapersOnLine</i> , <b>2020</b> , 53, 9276-9281	0.7	2
82	A 3-D Trailer Approach to Leader-Following Formation Control. <i>IEEE Transactions on Control Systems Technology</i> , <b>2020</b> , 28, 2292-2308	4.8	3
81	Cooperative Path Following Control of Multiple Quadcopters With Unknown External Disturbances. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , <b>2020</b> , 1-13	7.3	0
80	. <i>IEEE Access</i> , <b>2020</b> , 8, 201300-201316	3.5	6
79	Hybrid Control for Robust and Global Tracking on Smooth Manifolds. <i>IEEE Transactions on Automatic Control</i> , <b>2020</b> , 65, 1870-1885	5.9	5
78	A trajectory tracking control law for a quadrotor with slung load. <i>Automatica</i> , <b>2019</b> , 106, 384-389	5.7	20

77	Robust Motion Control of an Underactuated Hovercraft. <i>IEEE Transactions on Control Systems Technology</i> , <b>2019</b> , 27, 2195-2208	4.8	22
76	Nonlinear Backstepping Control of a Quadrotor-Slung Load System. <i>IEEE/ASME Transactions on Mechatronics</i> , <b>2019</b> , 24, 2304-2315	5.5	35
75	Optimal Trajectory Planning for Autonomous Drone Cinematography <b>2019</b> ,		2
74	Path Following Controller Design for an Underactuated Hovercraft with External Disturbances <b>2019</b> ,		1
73	Trajectory planning and control for drone replacement for multidrone cinematography. <i>IFAC-PapersOnLine</i> , <b>2019</b> , 52, 334-339	0.7	1
72	Multi-vehicle Cooperative Control for Load Transportation. <i>IFAC-PapersOnLine</i> , <b>2019</b> , 52, 358-363	0.7	2
71	Quadrotor trajectory generation and tracking for aggressive maneuvers with attitude constraints. <i>IFAC-PapersOnLine</i> , <b>2019</b> , 52, 55-60	0.7	7
70	. <i>IEEE Transactions on Aerospace and Electronic Systems</i> , <b>2019</b> , 55, 2104-2117	3.7	3
69	Integrated Visual Servoing Solution to Quadrotor Stabilization and Attitude Estimation Using a Pan and Tilt Camera. <i>IEEE Transactions on Control Systems Technology</i> , <b>2019</b> , 27, 14-29	4.8	3
68	LiDAR-Based Control of Autonomous Rotorcraft for the Inspection of Pierlike Structures. <i>IEEE Transactions on Control Systems Technology</i> , <b>2018</b> , 26, 1430-1438	4.8	12
67	Sensor-Based 3-D Pose Estimation and Control of Rotary-Wing UAVs Using a 2-D LiDAR. <i>Advances in Intelligent Systems and Computing</i> , <b>2018</b> , 718-729	0.4	
66	A Multidrone Approach for Autonomous Cinematography Planning. <i>Advances in Intelligent Systems and Computing</i> , <b>2018</b> , 337-349	0.4	9
65	Cooperative Motion Planning with Time, Energy and Active Navigation Constraints <b>2018</b> ,		2
64	Leader following trajectory planning: A trailer-like approach. <i>Automatica</i> , <b>2017</b> , 75, 77-87	5.7	7
63	Hybrid feedback for global asymptotic stabilization on a compact manifold <b>2017</b> ,		5
62	Robust Landing and Sliding Maneuver Hybrid Controller for a Quadrotor Vehicle. <i>IEEE Transactions on Control Systems Technology</i> , <b>2016</b> , 24, 400-412	4.8	40
61	LiDAR-Based Control of Autonomous Rotorcraft for Inspection of Pole-Shaped Structures. <i>Advances in Intelligent Systems and Computing</i> , <b>2016</b> , 609-621	0.4	1
60	Landing of a Quadrotor on a Moving Target Using Dynamic Image-Based Visual Servo Control. <i>IEEE Transactions on Robotics</i> , <b>2016</b> , 32, 1524-1535	6.5	86

59	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> , <b>2015</b> , 23, 570-583	4.8	22
58	Robust global trajectory tracking for a class of underactuated vehicles. <i>Automatica</i> , <b>2015</b> , 58, 90-98	5.7	32
57	A Globally Stabilizing Path Following Controller for Rotorcraft With Wind Disturbance Rejection. <i>IEEE Transactions on Control Systems Technology</i> , <b>2015</b> , 23, 708-714	4.8	76
56	Homing on a moving dock for a quadrotor vehicle <b>2015</b> ,		1
55	A nonlinear trajectory tracking controller for helicopters: Design and experimental evaluation <b>2015</b> ,		2
54	A trajectory tracking LQR controller for a quadrotor: Design and experimental evaluation <b>2015</b> ,		3
53	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> , <b>2015</b> , 25, 3617-3640	3.6	7
52	A nonlinear quadrotor trajectory tracking controller with disturbance rejection. <i>Control Engineering Practice</i> , <b>2014</b> , 26, 1-10	3.9	105
51	A leader-following trajectory generator with application to quadrotor formation flight. <i>Robotics and Autonomous Systems</i> , <b>2014</b> , 62, 1597-1609	3.5	50
50	A nonlinear quadrotor trajectory tracking controller with disturbance rejection <b>2014</b> ,		10
49	Trajectory Tracking Nonlinear Model Predictive Control for Autonomous Surface Craft. <i>IEEE Transactions on Control Systems Technology</i> , <b>2014</b> , 22, 2160-2175	4.8	49
48	A hybrid feedback controller for robust global trajectory tracking of quadrotor-like vehicles with minimized attitude error <b>2014</b> ,		1
47	Trailer-like leader following trajectory planning <b>2014</b> ,		1
46	Landing on a moving target using image-based visual servo control <b>2014</b> ,		8
45	Three dimensional trajectory planner for real time leader following <b>2014</b> ,		1
44	A robust landing and sliding maneuver controller for a quadrotor vehicle on a sloped incline <b>2014</b> ,		3
43	Nonlinear Attitude Observer Based on Range and Inertial Measurements. <i>IEEE Transactions on Control Systems Technology</i> , <b>2013</b> , 21, 1889-1897	4.8	5
42	Global trajectory tracking for a class of underactuated vehicles <b>2013</b> ,		15

41	Experimental validation of a globally stabilizing feedback controller for a quadrotor aircraft with wind disturbance rejection <b>2013</b> ,		3
40	Gossip average consensus in a Byzantine environment using stochastic Set-Valued Observers <b>2013</b> ,		9
39	A novel leader-following strategy applied to formations of quadrotors <b>2013</b> ,		2
38	Robust Take-Off for a Quadrotor Vehicle. <i>IEEE Transactions on Robotics</i> , <b>2012</b> , 28, 734-742	6.5	32
37	Terrain Avoidance Nonlinear Model Predictive Control for Autonomous Rotorcraft. <i>Journal of Intelligent and Robotic Systems: Theory and Applications</i> , <b>2012</b> , 68, 69-85	2.9	5
36	Visual servo aircraft control for tracking parallel curves <b>2012</b> ,		8
35	A landmark-based controller for global asymptotic stabilization on SE(3) <b>2012</b> ,		1
34	Integrated solution to quadrotor stabilization and attitude estimation using a pan and tilt camera <b>2012</b> ,		2
33	A Nonlinear Attitude Observer Based on Active Vision and Inertial Measurements. <i>IEEE Transactions on Robotics</i> , <b>2011</b> , 27, 664-677	6.5	20
32	An Experimentally Validated Attitude Observer Based on Range and Inertial Measurements*. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , <b>2011</b> , 44, 13807-13812		
31	Vision-based control for rigid body stabilization. <i>Automatica</i> , <b>2011</b> , 47, 1020-1027	5.7	9
30	Vision-based quadrotor stabilization using a pan and tilt camera <b>2010</b> ,		3
29	Nonlinear IBVS controller for the flare maneuver of fixed-wing aircraft using optical flow <b>2010</b> ,		12
28	Robust take-off and landing for a quadrotor vehicle <b>2010</b> ,		20
27	A nonlinear position and attitude observer on SE(3) using landmark measurements. <i>Systems and Control Letters</i> , <b>2010</b> , 59, 155-166	2.4	82
26	On the design of multi-rate tracking controllers: Application to rotorcraft guidance and control. <i>International Journal of Robust and Nonlinear Control</i> , <b>2010</b> , 20, 1879-1902	3.6	8
25	Nonlinear trajectory tracking control of a quadrotor vehicle <b>2009</b> ,		4
24	Rotorcraft path following control for extended flight envelope coverage <b>2009</b> ,		18

23	Underwater vehicle technology in the European Research Project VENUS. <i>Underwater Technology</i> , <b>2009</b> , 28, 175-185	0.3	6
22	Almost global stabilization of fully-actuated rigid bodies. <i>Systems and Control Letters</i> , <b>2009</b> , 58, 639-645	2.4	10
21	L1 adaptive control for autonomous rotorcraft <b>2009</b> ,		3
20	A Bottom-Following Preview Controller for Autonomous Underwater Vehicles. <i>IEEE Transactions on Control Systems Technology</i> , <b>2009</b> , 17, 257-266	4.8	41
19	Cooperative Autonomous Marine Vehicle motion control in the scope of the EU GREX Project: Theory and Practice <b>2009</b> ,		22
18	Cooperative Control of Multiple Marine Vehicles Theoretical Challenges and Practical Issues. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , <b>2009</b> , 42, 412-417		16
17	Output-feedback control for almost global stabilization of fully-actuated rigid bodies <b>2008</b> ,		7
16	On the design of rotorcraft landing controllers <b>2008</b> ,		2
15	A dynamic estimator on SE(3) using range-only measurements <b>2008</b> ,		3
14	Output-feedback control for stabilization on SE(3). <i>Systems and Control Letters</i> , <b>2008</b> , 57, 1013-1022	2.4	26
13	Landmark based nonlinear observer for rigid body attitude and position estimation <b>2007</b> ,		25
12	<b>2007</b> ,		4
11	Path-Following Control for Coordinated Turn Aircraft Maneuvers <b>2007</b> ,		17
10	On the Design of Multi-Rate Tracking Controllers: An Application to Rotorcraft Guidance and Control <b>2007</b> ,		4
9	Autolanding Controller for a Fixed Wing Unmanned Air Vehicle <b>2007</b> ,		12
8	Output-feedback control for stabilization on SE(3) <b>2006</b> ,		5
7	A Bottom-Following Preview Controller for Autonomous Underwater Vehicles <b>2006</b> ,		4
6	Affine Parameter-Dependent Preview Control for Rotorcraft Terrain Following Flight. <i>Journal of Guidance, Control, and Dynamics</i> , <b>2006</b> , 29, 1350-1359	2.1	27

5	A Path-Following Preview Controller for Autonomous Air Vehicles <b>2006</b> ,	18
4	Terrain Following Controller for Affine Parameter-Dependent Systems: An Application to Model-Scale Helicopters <b>2005</b> ,	1
3	A 3D PATH-FOLLOWING VELOCITY-TRACKING CONTROLLER FOR AUTONOMOUS VEHICLES. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , <b>2005</b> , 38, 73-78	5
2	Dynamic Modeling and Stability Analysis of Model-Scale Helicopters with Bell-Hiller Stabilizing Bar <b>2003</b> ,	25
1	Geometric finite-time inner-outer loop trajectory tracking control strategy for quadrotor slung-load transportation. <i>Nonlinear Dynamics</i> ,1	5 0