David Cabecinhas

List of Publications by Citations

52 papers	757 citations	15 h-index	26 g-index
57 ext. papers	1,029 ext. citations	4.2 avg, IF	4.51 L-index

#	Paper	IF	Citations
52	A nonlinear quadrotor trajectory tracking controller with disturbance rejection. *Control Engineering Practice*, **2014**, 26, 1-10	3.9	105
51	Landing of a Quadrotor on a Moving Target Using Dynamic Image-Based Visual Servo Control. *IEEE Transactions on Robotics*, **2016**, 32, 1524-1535	6.5	86
50	A Globally Stabilizing Path Following Controller for Rotorcraft With Wind Disturbance Rejection. *IEEE Transactions on Control Systems Technology*, **2015**, 23, 708-714	4.8	76
49	A leader-following trajectory generator with application to quadrotor formation flight. *Robotics and Autonomous Systems*, **2014**, 62, 1597-1609	3.5	50
48	Robust Landing and Sliding Maneuver Hybrid Controller for a Quadrotor Vehicle. *IEEE Transactions on Control Systems Technology*, **2016**, 24, 400-412	4.8	40
47	Nonlinear Backstepping Control of a Quadrotor-Slung Load System. *IEEE/ASME Transactions on Mechatronics*, **2019**, 24, 2304-2315	5.5	35
46	Robust global trajectory tracking for a class of underactuated vehicles. *Automatica*, **2015**, 58, 90-98	5.7	32
45	Robust Take-Off for a Quadrotor Vehicle. *IEEE Transactions on Robotics*, **2012**, 28, 734-742	6.5	32
44	Robust Motion Control of an Underactuated Hovercraft. *IEEE Transactions on Control Systems Technology*, **2019**, 27, 2195-2208	4.8	22
43	A trajectory tracking control law for a quadrotor with slung load. *Automatica*, **2019**, 106, 384-389	5.7	20
42	Robust take-off and landing for a quadrotor vehicle **2010**,		20
41	Rotorcraft path following control for extended flight envelope coverage **2009**,		18
40	Path-Following Control for Coordinated Turn Aircraft Maneuvers **2007**,		17
39	Hovercraft Control With Dynamic Parameters Identification. *IEEE Transactions on Control Systems Technology*, **2018**, 26, 785-796	4.8	15
38	Hybrid Control Strategy for the Autonomous Transition Flight of a Fixed-Wing Aircraft. *IEEE Transactions on Control Systems Technology*, **2013**, 21, 2194-2211	4.8	15
37	Global trajectory tracking for a class of underactuated vehicles **2013**,		15
36	. *IEEE Access*, **2019**, 7, 59185-59199	3.5	13

35	LiDAR-Based Control of Autonomous Rotorcraft for the Inspection of Pierlike Structures. *IEEE Transactions on Control Systems Technology*, **2018**, 26, 1430-1438	4.8	12
34	Autolanding Controller for a Fixed Wing Unmanned Air Vehicle **2007**,		12
33	A nonlinear quadrotor trajectory tracking controller with disturbance rejection **2014**,		10
32	Almost global stabilization of fully-actuated rigid bodies. *Systems and Control Letters*, **2009**, 58, 639-645	2.4	10
31	Autonomous Transition Flight for a Vertical Take-Off and Landing aircraft **2011**,		9
30	Landing on a moving target using image-based visual servo control **2014**,		8
29	Leader following trajectory planning: A trailer-like approach. *Automatica*, **2017**, 75, 77-87	5.7	7
28	Output-feedback control for almost global stabilization of fully-actuated rigid bodies **2008**,		7
27	Quadrotor trajectory generation and tracking for aggressive maneuvers with attitude constraints. *IFAC-PapersOnLine*, **2019**, 52, 55-60	0.7	7
26	**2021**, 5, 169-174		7
25	. *IEEE Transactions on Industrial Electronics*, **2021**, 1-1	8.9	7
24	Adaptive vehicle posture and height synchronization control of active air suspension systems with multiple uncertainties. *Nonlinear Dynamics*, **2020**, 99, 2109-2127	5	5
23	Design and experimental validation of a nonlinear controller for underactuated surface vessels. *Nonlinear Dynamics*, **2020**, 102, 2563-2581	5	4
22	Nonlinear trajectory tracking control of a quadrotor vehicle **2009**,		4
21	A trajectory tracking LQR controller for a quadrotor: Design and experimental evaluation **2015**,		3
20	A robust landing and sliding maneuver controller for a quadrotor vehicle on a sloped incline **2014**,		3
19	Experimental validation of a globally stabilizing feedback controller for a quadrotor aircraft with wind disturbance rejection **2013**,		3
18	Vision-based quadrotor stabilization using a pan and tilt camera **2010**,		3

17	A 3-D Trailer Approach to Leader-Following Formation Control. *IEEE Transactions on Control Systems Technology*, **2020**, 28, 2292-2308	4.8	3
16	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	4.8	3
15	A nonlinear trajectory tracking controller for helicopters: Design and experimental evaluation **2015** ,		2
14	A novel leader-following strategy applied to formations of quadrotors **2013**,		2
13	Integrated solution to quadrotor stabilization and attitude estimation using a pan and tilt camera **2012**,		2
12	Trajectory Tracking Control of a nonlinear Autonomous Surface Vessel **2019**,		2
11	Multi-vehicle Cooperative Control for Load Transportation. *IFAC-PapersOnLine*, **2019**, 52, 358-363	0.7	2
10	Quadrotor going through a window and landing: An image-based visual servo control approach. *Control Engineering Practice*, **2021**, 112, 104827	3.9	2
9	Homing on a moving dock for a quadrotor vehicle **2015**,		1
8	A hybrid feedback controller for robust global trajectory tracking of quadrotor-like vehicles with minimized attitude error **2014**,		1
7	Trailer-like leader following trajectory planning **2014**,		1
6	Three dimensional trajectory planner for real time leader following **2014**,		1
5	Transition Control for a fixed-wing Vertical Take-Off and Landing Aircraft*. *IFAC Postprint Volumes IPPV / International Federation of Automatic Control*, **2011**, 44, 7250-7255		1
4	Global Practical Tracking for a Hovercraft with Unmeasured Linear Velocity and Disturbances. *IFAC-PapersOnLine*, **2020**, 53, 8959-8964	0.7	1
3	Path Following Controller Design for an Underactuated Hovercraft with External Disturbances **2019**,		1
2	Geometric finite-time inner-outer loop trajectory tracking control strategy for quadrotor slung-load transportation. *Nonlinear Dynamics*,1	5	0
1	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