

Guilherme V Raffo

List of Publications by Year in descending order

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Version: 2024-02-01

31
papers

1,493
citations

623734

14
h-index

752698

20
g-index

31
all docs

31
docs citations

31
times ranked

1248
citing authors

#	ARTICLE	IF	CITATIONS
1	An integral predictive/nonlinear H_{∞} control structure for a quadrotor helicopter. Automatica, 2010, 46, 29-39.	5.0	666
2	A Predictive Controller for Autonomous Vehicle Path Tracking. IEEE Transactions on Intelligent Transportation Systems, 2009, 10, 92-102.	8.0	253
3	Backstepping/nonlinear H_{∞} control for path tracking of a quadrotor unmanned aerial vehicle. , 2008, , .		83
4	Path Tracking of a UAV via an Underactuated Control Strategy. European Journal of Control, 2011, 17, 194-213.	2.6	54
5	Robust Nonlinear Control for Path Tracking of a Quad-Rotor Helicopter. Asian Journal of Control, 2015, 17, 142-156.	3.0	42
6	Nonlinear robust control of a quadrotor UAV for load transportation with swing improvement. , 2016, , .		40
7	Guaranteed methods based on constrained zonotopes for set-valued state estimation of nonlinear discrete-time systems. Automatica, 2020, 111, 108614.	5.0	40
8	Nonlinear H_{∞} Controller for the Quad-Rotor Helicopter with Input Coupling*. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2011, 44, 13834-13839.	0.4	38
9	A new robust adaptive mixing control for trajectory tracking with improved forward flight of a tilt-rotor UAV. ISA Transactions, 2021, 110, 86-104.	5.7	32
10	Two-wheeled self-balanced pendulum workspace improvement via underactuated robust nonlinear control. Control Engineering Practice, 2015, 44, 231-242.	5.5	30
11	MPC with Nonlinear H_{∞} Control for Path Tracking of a Quad-Rotor Helicopter. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2008, 41, 8564-8569.	0.4	29
12	Suspended load path tracking control using a tilt-rotor UAV based on zonotopic state estimation. Journal of the Franklin Institute, 2019, 356, 1695-1729.	3.4	23
13	Set-valued state estimation of nonlinear discrete-time systems with nonlinear invariants based on constrained zonotopes. Automatica, 2021, 129, 109638.	5.0	20
14	Nonlinear Model Predictive Path Following Controller with Obstacle Avoidance. Journal of Intelligent and Robotic Systems: Theory and Applications, 2021, 102, 1.	3.4	17
15	Nonlinear Model Predictive Control on SE(3) for Quadrotor Aggressive Maneuvers. Journal of Intelligent and Robotic Systems: Theory and Applications, 2021, 101, 1.	3.4	16
16	Input-Output Linearizing Control of the Underactuated Hovercraft Using the Derivative-Free Nonlinear Kalman Filter. Unmanned Systems, 2015, 03, 127-142.	3.6	15
17	Set-based state estimation of nonlinear systems using constrained zonotopes and interval arithmetic. , 2018, , .		13
18	A Load Transportation Nonlinear Control Strategy Using a Tilt-Rotor UAV. Journal of Advanced Transportation, 2018, 2018, 1-20.	1.7	13

#	ARTICLE	IF	CITATIONS
19	Autonomous Navigation of Multiple Robots using Supervisory Control Theory. , 2019, , .		10
20	A robust optimal control approach in the weighted Sobolev space for underactuated mechanical systems. Automatica, 2021, 125, 109474.	5.0	10
21	Path Tracking Control with State Estimation based on Constrained Zonotopes for Aerial Load Transportation. , 2018, , .		8
22	Nonlinear Model Predictive Control on SE(3) for Quadrotor Trajectory Tracking and Obstacle Avoidance. , 2019, , .		8
23	Path tracking Model Predictive Control of a Tilt-rotor UAV carrying a suspended load. , 2016, , .		7
24	Nonlinear $\hat{\infty}$ control applied to the Personal Pendulum Car. , 2007, , .		6
25	Collision-free vector field guidance and MPC for a fixed-wing UAV. , 2021, , .		5
26	Zonotopic Filtering for Uncertain Nonlinear Systems: Fundamentals, Implementation Aspects, and Extensions [Applications of Control]. IEEE Control Systems, 2022, 42, 19-51.	0.8	4
27	Joint state and parameter estimation based on constrained zonotopes. Automatica, 2022, 142, 110425.	5.0	4
28	Nonlinear H_2 and H_∞ control formulated in the Weighted Sobolev space for underactuated mechanical systems with input coupling. , 2018, , .		2
29	Approximated solutions to the nonlinear H_2 and H_∞ control approaches formulated in the Sobolev space [*] . , 2018, , .		2
30	Distributed supervisory control for multiple robot autonomous navigation performing single-robot tasks. Mechatronics, 2022, 86, 102848.	3.3	2
31	Set-based state estimation and fault diagnosis of linear discrete-time descriptor systems using constrained zonotopes. IFAC-PapersOnLine, 2020, 53, 4291-4296.	0.9	1