Manuel Mera

List of Publications by Year
in descending order

34 papers	231 citations	9 h-index	13 g-index
34 all docs	34 docs citations	34 times ranked	139 citing authors

#	Article	IF	Citations
1	Trajectory tracking for uncertain Unicycle Mobile Robots: A Super-Twisting approach. Control Engineering Practice, 2022, 122, 105078.	3.2	11
2	Continuous state observability and mode reconstructability of switched nonlinear systems with unknown switching function. International Journal of Robust and Nonlinear Control, 2021, 31, 3827-3840.	2.1	4
3	Robust tracking control design for Unicycle Mobile Robots with input saturation. Control Engineering Practice, 2021, 107, 104676.	3.2	14
4	Robust output-based controller design for enlarging the region of attraction of input saturated linear systems. Asian Journal of Control, 2021, 23, 178-189.	1.9	2
5	Twisting Controller of Trajectory for a 6DOF Base Motion: Application to Quadrotor Flight Simulation Training Device. Mechanisms and Machine Science, 2021, , 229-236.	0.3	0
6	Robust observer-based controller design for state constrained uncertain systems: attractive ellipsoid method. International Journal of Control, 2020, 93, 1397-1407.	1.2	6
7	Attractive Ellipsoid-Based Robust Control for Quadrotor Tracking. IEEE Transactions on Industrial Electronics, 2020, 67, 7851-7860.	5.2	11
8	Robust Luenberger-like observer for control of linear switched systems under arbitrary unknown switched function. Asian Journal of Control, 2020, , .	1.9	3
9	Robust control for state constrained systems based on composite barrier Lyapunov functions. International Journal of Robust and Nonlinear Control, 2020, 30, 7238-7254.	2.1	5
10	On mode reconstructability and reconstructability sets of piecewise linear systems. International Journal of Control, 2020, , 1-9.	1.2	2
11	A sliding-mode based controller for trajectory tracking of perturbed Unicycle Mobile Robots. Control Engineering Practice, 2020, 102, 104548.	3.2	17
12	Differential neural network identifier with composite learning laws for uncertain nonlinear systems. IFAC-PapersOnLine, 2020, 53, 7897-7902.	0.5	2
13	Robust output-regulation for uncertain linear systems with input saturation. IET Control Theory and Applications, 2020, 14, 2372-2384.	1.2	6
14	State and Mode Estimation for Piecewise Linear Systems. , 2019, , .		1
15	Impedance Adaptive Controller for a Prototype of a Whiplash Syndrome Rehabilitation Device. Mathematical Problems in Engineering, 2019, 2019, 1-21.	0.6	2
16	A Robust Tracking Control for Unicycle Mobile Robots: An Attractive Ellipsoid Approach. , 2019, , .		3
17	Advances in attractive ellipsoid method for robust control design. International Journal of Robust and Nonlinear Control, 2019, 29, 1418-1436.	2.1	8
18	Robust control of linear systems under input saturation using Barrier Lyapunov functions. International Journal of Dynamics and Control, 2018, 6, 1231-1238.	1.5	5

#	Article	IF	Citations
19	Differential neural networks observer for second order systems with sampled and quantized output. IFAC-PapersOnLine, 2018, 51, 490-495.	0.5	10
20	Output-based Robust Control for Quad-Rotor Tracking: An Attractive Ellipsoid Approach. , 2018, , .		1
21	Suboptimal adaptive control of dynamic systems with state constraints based on Barrier Lyapunov functions. IET Control Theory and Applications, 2018, 12, 1116-1124.	1.2	11
22	Quasi-minimal active disturbance rejection control of MIMO perturbed linear systems based on differential neural networks and the attractive ellipsoid method. ISA Transactions, 2017, 71, 304-316.	3.1	2
23	Active disturbance rejection control based on differential neural networks. , 2017, , .		1
24	Robust output‐control for uncertain linear systems: Homogeneous differentiator‐based observer approach. International Journal of Robust and Nonlinear Control, 2017, 27, 1895-1914.	2.1	14
25	On Necessary and Sufficient Conditions for Mode Observability of a Class of State Dependant Switched Systems. IFAC-PapersOnLine, 2017, 50, 9485-9489.	0.5	1
26	Robust Control for State Constrained Uncertain Systems: Attractive Ellipsoid Method Approach. IFAC-PapersOnLine, 2016, 49, 19-23.	0.5	4
27	Finite-time attractive ellipsoid method: implicit Lyapunov function approach. International Journal of Control, 2016, 89, 1079-1090.	1.2	11
28	Finite-time Attractive Ellipsoid Method using Implicit Lyapunov Functions. , 2015, , .		5
29	Quantised and sampled output feedback for nonlinear systems. International Journal of Control, 2014, 87, 2475-2487.	1.2	9
30	A robust dynamic controller for a class of nonlinear systems with sample-data outputs. , 2012, , .		3
31	Practical output feedback stabilisation for a class of continuous-time dynamic systems under sample-data outputs. International Journal of Control, 2011, 84, 1408-1416.	1.2	36
32	On the Robust Control Design for a Class of Continuous-Time Dynamical Systems with a Sample-Data Output. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2011, 44, 5819-5824.	0.4	9
33	Robust control for a class of continuous-time dynamical systems with sample-data outputs. , 2009, , .		12
34	Robust observer-based control of switched nonlinear systems with quantized and sample output. Kybernetika, 0, , 59-80.	0.0	0