

Elisabetta Punta

List of Publications by Year in descending order

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63
papers

1,333
citations

566801

15
h-index

454577

30
g-index

64
all docs

64
docs citations

64
times ranked

890
citing authors

#	ARTICLE	IF	CITATIONS
1	A survey of applications of second-order sliding mode control to mechanical systems. International Journal of Control, 2003, 76, 875-892.	1.2	624
2	Optimal control of freeways via speed signalling and ramp metering. Control Engineering Practice, 1998, 6, 771-780.	3.2	85
3	Nonlinear optimization for freeway control using variable-speed signaling. IEEE Transactions on Vehicular Technology, 1999, 48, 2042-2052.	3.9	71
4	Simplex Methods for Nonlinear Uncertain Sliding-Mode Control. IEEE Transactions on Automatic Control, 2004, 49, 922-933.	3.6	63
5	Adaptation of sliding modes. IMA Journal of Mathematical Control and Information, 2013, 30, 285-300.	1.1	58
6	Sliding-Mode Control Strategies for Rendezvous and Docking Maneuvers. Journal of Guidance, Control, and Dynamics, 2017, 40, 1481-1487.	1.6	43
7	Multi-Input Second-Order Sliding-Mode Hybrid Control of Constrained Manipulators. Journal of Dynamical and Control Systems, 2000, 10, 277-296.	0.4	37
8	Approximability Properties for Second-Order Sliding Mode Control Systems. IEEE Transactions on Automatic Control, 2007, 52, 1813-1825.	3.6	31
9	Reduced-Order Observer in the Sliding-Mode Control of Nonlinear Nonaffine Systems. IEEE Transactions on Automatic Control, 2010, 55, 2368-2373.	3.6	30
10	Simplex sliding mode methods for the chattering reduction control of multi-input nonlinear uncertain systems. Automatica, 2009, 45, 1923-1928.	3.0	29
11	Sliding Mode Control Techniques and Artificial Potential Field for Dynamic Collision Avoidance in Rendezvous Maneuvers. , 2020, 4, 313-318.		25
12	Analysis of a Second-Order Sliding-Mode Algorithm in Presence of Input Delays. IEEE Transactions on Automatic Control, 2006, 51, 1325-1332.	3.6	21
13	Simplex sliding mode control of multi-input systems with chattering reduction and mono-directional actuators. Automatica, 2011, 47, 2433-2437.	3.0	19
14	Sliding mode output-feedback stabilization of uncertain nonlinear nonaffine systems. Automatica, 2012, 48, 3106-3113.	3.0	18
15	Multi-Input Sliding Mode Control of Nonlinear Uncertain Non-Affine Systems With Mono-Directional Actuation. IEEE Transactions on Automatic Control, 2015, 60, 393-403.	3.6	17
16	Nested backward compensation of unmatched perturbations via HOSM observation. Journal of the Franklin Institute, 2014, 351, 2397-2410.	1.9	16
17	Obstacle Avoidance with Potential Field Applied to a Rendezvous Maneuver. Applied Sciences (Switzerland), 2017, 7, 1042.	1.3	15
18	A combined first-/second-order sliding-mode technique in the control of a jet-propelled vehicle. International Journal of Robust and Nonlinear Control, 2008, 18, 570-585.	2.1	11

#	ARTICLE	IF	CITATIONS
19	Torque Vectoring in Hybrid Vehicles with In-Wheel Electric Motors: Comparing SMC and PID control. , 2021, , .		11
20	Title is missing!. Journal of Dynamical and Control Systems, 1999, 9, 99-124.	0.4	10
21	Multi-input sliding mode control of nonlinear uncertain affine systems. International Journal of Control, 2011, 84, 867-875.	1.2	9
22	Fault-Tolerant Tracking Control for A 3-DOF Helicopter with Actuator Faults and Saturation. IFAC-PapersOnLine, 2017, 50, 5250-5255.	0.5	9
23	Regularization of Second Order Sliding Mode Control Systems. , 2008, , 3-21.		9
24	Multivariable Second Order Sliding Mode Control of Mechanical Systems. , 2006, , .		8
25	On the sliding mode control of mechanical systems. Comptes Rendus Mecanique, 2001, 329, 835-842.	0.2	6
26	Regular simplex method and chattering elimination for nonlinear sliding mode control of uncertain systems. , 2007, , .		6
27	Adaptive tracking of sinusoids with unknown frequencies for some classes of SISO nonâ€minimum phase systems. International Journal of Adaptive Control and Signal Processing, 2016, 30, 1163-1183.	2.3	6
28	Strategies for control, fault detection and isolation via sliding mode techniques for a 3-DOF helicopter. , 2016, , .		6
29	MIMO Second Order Sliding Mode Control. , 0, , .		4
30	â€œFlyableâ€ Guidance and Control Algorithms for Orbital Rendezvous Maneuver. SICE Journal of Control Measurement and System Integration, 2018, 11, 14-24.	0.4	4
31	Simplex sliding mode control for autonomous sixâ€DOF vehicles with monoâ€directional actuators: Robustness, stability, and implementation issues. International Journal of Robust and Nonlinear Control, 2019, 29, 529-549.	2.1	4
32	Sliding-Mode State Observers for a Class of Nonlinear Continuous-Time Systems. Proceedings of the American Control Conference, 2007, , .	0.0	3
33	Output nested backward compensation of unmatched effects of unknown inputs. , 2010, , .		3
34	State observers with first-/second-order sliding-mode for nonlinear systems with bounded noises. , 2010, , .		3
35	Minimax Optimization of Fatigue Loads in a Wind Farm and its Realization Via Sliding Mode Controller of Wind Turbines. , 2018, , .		3
36	Tradeâ€off between power extraction maximisation and fatigue reduction in wind farms via secondâ€order sliding mode control and minâ€max optimisation. IET Control Theory and Applications, 2020, 14, 2535-2547.	1.2	3

#	ARTICLE	IF	CITATIONS
37	Reduced-order observer for sliding mode control of nonlinear non-affine systems. , 2008, , .		2
38	A switched second-order sliding mode control algorithm for non-affine systems with saturations. , 2012, , .		2
39	Simplex Sliding Mode Control Strategies for Spacecraft Rendezvous Maneuvers. IFAC-PapersOnLine, 2017, 50, 8496-8501.	0.5	2
40	Stabilization of a second-order variable-structure system with unknown input delay. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2003, 36, 105-110.	0.4	1
41	VARIABLE STRUCTURE CONTROL WITH UNKNOWN INPUT-DELAY AND NONLINEAR DISSIPATIVE DISTURBANCE. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2005, 38, 723-728.	0.4	1
42	Sliding mode control based on observers for uncertain nonlinear systems. , 2012, , .		1
43	Fault detection for nonlinear non-affine systems via sliding-mode output-feedback and HOSM differentiator. , 2014, , .		1
44	Rendez-vous and docking position tracking via sliding mode control. , 2015, , .		1
45	Integral Sliding Mode Control of Multi-input Nonlinear Uncertain Non-affine Systems. Studies in Systems, Decision and Control, 2015, , 57-75.	0.8	1
46	Decoupling force and position control in constrained motion with friction. , 0, , .		0
47	Chattering Free Simplex Sliding Mode Control for Systems with Mono-directional Actuators. , 0, , .		0
48	Simplex Sliding Mode Control and Chattering Elimination for Systems with Mono-Directional Actuators. , 2006, , .		0
49	Reduced-order observer for dynamic output feedback of variable-structure control systems. , 2008, , .		0
50	Sliding-mode state observers for multi-output nonlinear systems with bounded noises on dynamics and measurements. , 2009, , .		0
51	Reduced-order observer and chattering reduction for sliding mode control of nonlinear systems. , 2009, , .		0
52	Reduced order observers for the sliding mode control of mechanical systems with elastic joints. International Journal of Control, 2010, 83, 1364-1373.	1.2	0
53	Multi-input sliding mode control of nonlinear systems with uncertain affine dependence on the control. , 2010, , .		0
54	Nested backward compensation of unmatched effects of unknown inputs based on HOSM identification. , 2010, , .		0

#	ARTICLE	IF	CITATIONS
55	Multi-Input Sliding Mode Control of Uncertain Systems. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2011, 44, 1917-1921.	0.4	0
56	Observers in the Sliding Mode Control of Uncertain Nonlinear Nonaffine Systems*. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2011, 44, 1832-1836.	0.4	0
57	Observers with discrete-time measurements in the sliding mode control of nonlinear systems. , 2012, , .		0
58	Observers in the sliding mode control of uncertain nonlinear nonaffine systems with matched and unmatched uncertainties. , 2012, , .		0
59	Observers with Discrete-Time Measurements in the Sliding Mode Output-Feedback Stabilization of Nonlinear Systems. Lecture Notes in Control and Information Sciences, 2013, , 283-297.	0.6	0
60	Output regulation of some classes of SISO non-minimum phase non-affine systems. , 2013, , .		0
61	Multi-input sliding mode control of nonlinear uncertain non-affine systems with mono-directional actuation. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2013, 46, 409-414.	0.4	0
62	Finite time control of multi-input nonlinear uncertain systems. , 2017, , .		0
63	Performance Comparison of Sliding Mode Techniques for LISA Mission. , 2021, , .		0