Iván de Jesús Salgado

List of Publications by Year
in descending order

51 papers	**452** citations	840119 **11** h-index	794141 **19** g-index
51 all docs	**51** docs citations	**51** times ranked	**449** citing authors

#	Article	IF	Citations
1	Control of discrete time systems based on recurrent Super-Twisting-like algorithm. ISA Transactions, 2016, 64, 47-55.	3.1	45
2	Fast Estimation of Phase and Frequency for Single-Phase Grid Signal. IEEE Transactions on Industrial Electronics, 2019, 66, 6408-6411.	5.2	45
3	Discrete‐time non‐linear state observer based on a super twisting‐like algorithm. IET Control Theory and Applications, 2014, 8, 803-812.	1.2	35
4	Output feedback control of a skid-steered mobile robot based on the super-twisting algorithm. Control Engineering Practice, 2017, 58, 193-203.	3.2	29
5	Super-twisting sliding mode differentiation for improving PD controllers performance of second order systems. ISA Transactions, 2014, 53, 1096-1106.	3.1	26
6	Adaptive sliding-mode controller of a lower limb mobile exoskeleton for active rehabilitation. ISA Transactions, 2021, 109, 218-228.	3.1	21
7	Proportional derivative fuzzy control supplied with second order sliding mode differentiation. Engineering Applications of Artificial Intelligence, 2014, 35, 84-94.	4.3	20
8	Robust synchronization of master-slave chaotic systems using approximate model: An experimental study. ISA Transactions, 2018, 73, 141-146.	3.1	19
9	Nonlinear discrete time neural network observer. Neurocomputing, 2013, 101, 73-81.	3.5	17
10	Generalized Super-Twisting Observer for Nonlinear Systems. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2011, 44, 14353-14358.	0.4	15
11	Robust Gradient Estimator for Unknown Frequency Estimation in Noisy Environment: Application to Grid-Synchronization. IEEE Access, 2020, 8, 70693-70702.	2.6	15
12	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
13	Event driven sliding mode control of a lower limb exoskeleton based on a continuous neural network electromyographic signal classifier. Mechatronics, 2020, 72, 102451.	2.0	11
14	Differential neural networks observer for second order systems with sampled and quantized output. IFAC-PapersOnLine, 2018, 51, 490-495.	0.5	10
15	Discrete time recurrent neural network observer. , 2009, , .		9
16	Adaptive sliding-mode observer for second order discrete-time MIMO nonlinear systems based on recurrent neural-networks. International Journal of Machine Learning and Cybernetics, 2019, 10, 2851-2866.	2.3	9
17	Adaptive Unknown Input Estimation by Sliding Modes and Differential Neural Network Observer. IEEE Transactions on Neural Networks and Learning Systems, 2018, 29, 3499-3509.	7.2	8
18	Hybrid State Constraint Adaptive Disturbance Rejection Controller for a Mobile Worm Bio-Inspired Robot. Mathematical and Computational Applications, 2020, 25, 13.	0.7	8

#	Article	IF	Citations
19	Sampled output based continuous second order sliding mode observer. , 2010, , .		7
20	Adaptive Proportional Derivative Controller of Cooperative Manipulators. IFAC-PapersOnLine, 2018, 51, 232-237.	0.5	7
21	Hybrid position/force output feedback second-order sliding mode control for a prototype of an active orthosis used in back-assisted mobilization. Medical and Biological Engineering and Computing, 2019, 57, 1843-1860.	1.6	7
22	Robust observer-based controller design for state constrained uncertain systems: attractive ellipsoid method. International Journal of Control, 2020, 93, 1397-1407.	1.2	6
23	Adaptive control of discrete‐time nonlinear systems by recurrent neural networks in quasi‐sliding mode like regime. International Journal of Adaptive Control and Signal Processing, 2017, 31, 83-96.	2.3	5
24	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
25	Hybrid position–admittance realization of an adaptive output super-twisting controller for a robotic scalpel. Control Engineering Practice, 2019, 93, 104161.	3.2	5
26	Enhanced Naproxen Elimination in Water by Catalytic Ozonation Based on NiO Films. Catalysts, 2020, 10, 884.	1.6	5
27	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
28	Active Disturbance Rejection Controller for a Flexible Walking Bioinspired Inchworm Mobile Robot Actuated With Shape Memory Alloy Devices. IEEE Transactions on Control Systems Technology, 2022, 30, 1790-1797.	3.2	5
29	Output feedback robust control for teleoperated manipulator robots with different workspace. Expert Systems With Applications, 2022, 206, 117838.	4.4	5
30	Robust Control for State Constrained Uncertain Systems: Attractive Ellipsoid Method Approach. IFAC-PapersOnLine, 2016, 49, 19-23.	0.5	4
31	Adaptive identifier for uncertain complex-valued discrete-time nonlinear systems based on recurrent neural networks. Neural Processing Letters, 2016, 43, 133-153.	2.0	4
32	Terminal Sliding-Mode Control of Virtual Humanoid Robot with Joint Restrictions Walking on stepping objects. Cybernetics and Systems, 2020, 51, 402-425.	1.6	4
33	Lyapunov stable learning laws for multilayer recurrent neural networks. Neurocomputing, 2022, 491, 644-657.	3.5	4
34	Design of mixed Luenberger and sliding continuous mode observer using sampled output information. , 2010, , .		3
35	Terminal sliding mode control of a virtual humanoid robot. , 2019, , .		3
36	Design of variable gain super-twisting observer for nonlinear systems with sampled output. , 2010, , .		2

#	Article	IF	Citations
37	Discrete time supper-twisting observer for 2n dimensional systems. , 2011, , .		2
38	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
39	Robust outputâ€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
40	PD Controller Based on Second Order Sliding Mode Differentiation. , 2012, , .		1
41	Active disturbance rejection control based on differential neural networks. , 2017, , .		1
42	Robust Synchronization of Master Slave Chaotic Systems: A Continuous Sliding-Mode Control Approach With Experimental Study. , 2019, , 261-275.		1
43	Robust identification of unknown inputs in electrical stimulation of ex-vivo animal models. Biomedical Signal Processing and Control, 2019, 52, 103-110.	3.5	1
44	Assisted Rehabilitation by Robotic Orthosis of Spinal Cord and Back Injuries. IFMBE Proceedings, 2015, , 242-245.	0.2	1
45	Stable learning laws design for long short-term memory identifier for uncertain discrete systems via control Lyapunov functions. Neurocomputing, 2022, 491, 144-159.	3.5	1
46	Brain Computer Interface for Speech Synthesis Based on Multilayer Differential Neural Networks. Cybernetics and Systems, 2022, 53, 126-140.	1.6	1
47	Discrete time recurrent neural network sliding mode observer. , 2010, , .		0
48	Adaptive control of discrete-time nonlinear systems by recurrent neural networks in a Quasi Sliding mode regime. , 2013, , .		0
49	Two-layer dynamic neural field learning law basec on controlled Lyapunov functions. , 2017, , .		0
50	Discrete event-driven control of an active orthosis regulated by electromyographic signals for Canis lupus familiaris. Intelligent Service Robotics, 2021, 14, 485-499.	1.6	0
51	Prototype of a Surgical Robot with Contact Force Feedback. IFMBE Proceedings, 2020, , 993-1001.	0.2	0