David Cruz-Ortiz

List of Publications by Year
in descending order

25 papers	190 citations	1307366 7 h-index	1125617 13 g-index
25 all docs	25 docs citations	25 times ranked	180 citing authors

#	Article	IF	Citations
1	Non-singular terminal sliding-mode control for a manipulator robot using a barrier Lyapunov function. ISA Transactions, 2022, 121, 268-283.	3.1	43
2	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
3	Adaptive output control of a mobile manipulator hanging from a quadcopter unmanned vehicle. ISA Transactions, 2019, 94, 200-217.	3.1	17
4	Integrated wearable and self-carrying active upper limb orthosis. Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine, 2018, 232, 172-184.	1.0	11
5	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
6	Control of a hybrid upper-limb orthosis device based on a data-driven artificial neural network classifier of electromyography signals. Biomedical Signal Processing and Control, 2021, 68, 102624.	3.5	10
7	Output Second-order Sliding-mode Control for a Gecko Biomimetic Climbing Robot. Journal of Bionic Engineering, 2019, 16, 633-646.	2.7	8
8	Hybrid State Constraint Adaptive Disturbance Rejection Controller for a Mobile Worm Bio-Inspired Robot. Mathematical and Computational Applications, 2020, 25, 13.	0.7	8
9	Adaptive Proportional Derivative Controller of Cooperative Manipulators. IFAC-PapersOnLine, 2018, 51, 232-237.	0.5	7
10	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
11	Robust control for masterâ€“slave manipulator system avoiding obstacle collision under restricted working space. IET Control Theory and Applications, 2020, 14, 1375-1386.	1.2	6
12	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
13	Output feedback robust control for teleoperated manipulator robots with different workspace. Expert Systems With Applications, 2022, 206, 117838.	4.4	5
14	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
15	Adaptive sliding-mode trajectory tracking control for state constraint masterâ€“slave manipulator systems. ISA Transactions, 2022, 127, 273-282.	3.1	4
16	Adaptive sliding-mode control with integral compensation for robotic devices with state constraints. IFAC-PapersOnLine, 2018, 51, 506-511.	0.5	3
17	Decentralized sliding-mode control of robotic manipulator with constraint workspace: a finite-convergent barrier Lyapunov approach. , 2019, , .		3
18	Terminal sliding mode control of a virtual humanoid robot. , 2019, , .		3

#	Article	IF	Citations
19	Practical Realization of Implicit Homogeneous Controllers for Linearized Systems. IEEE Transactions on Industrial Electronics, 2022, 69, 5142-5151.	5.2	3
20	Robust Control of a Master-Slave Manipulator Under Restricted Task-Space. Mechanisms and Machine Science, 2020, , 240-248.	0.3	1
21	Musculoskeletal Neural Network path generator for a virtual upper-limb active controlled orthosis. , 2021, 2021, 6491-6495.		1
22	Adaptive terminal sliding mode control of a regulated multidimensional electrospinning device for polymeric structures. Proceedings of the Institution of Mechanical Engineers Part I: Journal of Systems and Control Engineering, 2022, 236, 1503-1522.	0.7	1
23	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
24	Prototype of a Surgical Robot with Contact Force Feedback. IFMBE Proceedings, 2020, , 993-1001.	0.2	0
25	Robust Control of a Virtual Back-Assisted Orthosis Under Position Constraints. Lecture Notes in Networks and Systems, 2022, , 63-70.	0.5	0