Carlos Aguilar-Avelar

List of Publications by Year
in descending order

22 papers	338 citations	932766 10 h-index	839053 18 g-index
27 all docs	27 docs citations	27 times ranked	375 citing authors

#	Article	IF	Citations
1	Automated ELISA On-Chip for the Detection of Anti-SARS-CoV-2 Antibodies. Sensors, 2021, 21, 6785.	2.1	12
2	Characterization of a novel automated microfiltration device for the efficient isolation and analysis of circulating tumor cells from clinical blood samples. Scientific Reports, 2020, 10, 7543.	1.6	9
3	Fully Embedded Flow Control Device for Microfluidic Applications. IEEE Latin America Transactions, 2020, 18, 446-454.	1.2	0
4	Observer based nonlinear control design for glucose regulation in type 1 diabetic patients: An LMI approach. Biomedical Signal Processing and Control, 2019, 47, 7-15.	3.5	42
5	High-Throughput Automated Microscopy of Circulating Tumor Cells. Scientific Reports, 2019, 9, 13766.	1.6	14
6	Fully Embedded Flow Control Device for Microfluidic Applications. IEEE Latin America Transactions, 2019, 18, 446-454.	1.2	1
7	Tracking of periodic oscillations in an underactuated system via adaptive neural networks. Journal of Low Frequency Noise Vibration and Active Control, 2018, 37, 128-143.	1.3	4
8	Motion Control of Underactuated Mechanical Systems. Intelligent Systems, Control and Automation: Science and Engineering, 2018, , .	0.3	59
9	Discussion on Generalizations and Further Research. Intelligent Systems, Control and Automation: Science and Engineering, 2018, , 177-187.	0.3	1
10	Identification of Underactuated Mechanical Systems. Intelligent Systems, Control and Automation: Science and Engineering, 2018, , 27-49.	0.3	5
11	Composite Control of the Furuta Pendulum. Intelligent Systems, Control and Automation: Science and Engineering, 2018, , 51-68.	0.3	1
12	Feedback Linearization Control of the Furuta Pendulum. Intelligent Systems, Control and Automation: Science and Engineering, 2018, , 69-92.	0.3	5
13	Adaptive Control of the IWP. Intelligent Systems, Control and Automation: Science and Engineering, 2018, , 159-176.	0.3	1
14	Two adaptive control strategies for trajectory tracking of the inertia wheel pendulum: neural networks vis Ã vis model regressor. Intelligent Automation and Soft Computing, 2017, 23, 63-73.	1.6	18
15	A <scp>matlab</scp>-based identification procedure applied to a two-degrees-of-freedom robot manipulator for engineering students. International Journal of Electrical Engineering and Education, 2017, 54, 319-340.	0.4	16
16	Effects of nonlinear friction compensation in the inertia wheel pendulum. Journal of Mechanical Science and Technology, 2017, 31, 4425-4433.	0.7	12
17	A MRAC Principle for a Single-Link Electrically Driven Robot with Parameter Uncertainties. Complexity, 2017, 2017, 1-13.	0.9	3
18	Adaptive Neural Network Control for the Trajectory Tracking of the Furuta Pendulum. IEEE Transactions on Cybernetics, 2016, 46, 3439-3452.	6.2	49

#	Article	IF	Citations
19	New Feedback Linearization-Based Control for Arm Trajectory Tracking of the Furuta Pendulum. IEEE/ASME Transactions on Mechatronics, 2016, 21, 638-648.	3.7	34
20	A composite controller for trajectory tracking applied to the Furuta pendulum. ISA Transactions, 2015, 57, 286-294.	3.1	33
21	On trajectory tracking control of the inertia wheel pendulum. , 2014, , .		5
22	A feedback linearization controller for trajectory tracking of the Furuta pendulum. , 2014, , .		6