

Emmanuel Cruz-Zavala

List of Publications by Year in descending order

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docs citations

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times ranked

603
citing authors

#	ARTICLE	IF	CITATIONS
1	Trajectory-tracking in finite-time for robot manipulators with bounded torques via output-feedback. International Journal of Control, 2023, 96, 907-921.	1.2	1
2	Output-Feedback Consensus of Delayed Networks of Euler-Lagrange Agents With Bounded Controllers. , 2022, 6, 1903-1908.		2
3	Strict Lyapunov functions for finite-time control of robot manipulators. International Journal of Control, 2021, 94, 3112-3122.	1.2	2
4	High-order sliding-mode control design homogeneous in the limit. International Journal of Robust and Nonlinear Control, 2021, 31, 3380-3416.	2.1	12
5	Robust trajectory-tracking in finite-time for robot manipulators using nonlinear proportional-derivative control plus feedforward compensation. International Journal of Robust and Nonlinear Control, 2021, 31, 3878-3907.	2.1	7
6	Task Space Consensus of Heterogeneous Robots With Time-Delays and Without Velocity Measurements. , 2021, 5, 1525-1530.		8
7	Lyapunov-based finite-time control of robot manipulators. International Journal of Robust and Nonlinear Control, 2021, 31, 3090-3114.	2.1	12
8	Continuous finite-time regulation of Euler-Lagrange systems via energy shaping. International Journal of Control, 2020, 93, 2931-2940.	1.2	10
9	Further advancements on the output-feedback global continuous control for the finite-time and exponential stabilisation of bounded-input mechanical systems: desired conservative-force compensation and experiments. International Journal of Control, 2020, 93, 1521-1533.	1.2	9
10	Continuous Control for Fully Damped Mechanical Systems With Input Constraints: Finite-Time and Exponential Tracking. IEEE Transactions on Automatic Control, 2020, 65, 882-889.	3.6	17
11	Higher Order Sliding Mode Control Using Discontinuous Integral Action. IEEE Transactions on Automatic Control, 2020, 65, 4316-4323.	3.6	18
12	Discontinuous Integral Control for Systems with Arbitrary Relative Degree. Studies in Systems, Decision and Control, 2020, , 29-69.	0.8	4
13	Finite-time consensus of Euler-Lagrange agents without velocity measurements via energy shaping. International Journal of Robust and Nonlinear Control, 2019, 29, 6006-6030.	2.1	9
14	A Strict Lyapunov Function for the Finite-Time Regulation of Robot Manipulators with Bounded Inputs. , 2019, , .		0
15	Pose Consensus of Multiple Robots with Time-Delays Using Neural Networks. Robotica, 2019, 37, 883-905.	1.3	6
16	Levant's Arbitrary-Order Exact Differentiator: A Lyapunov Approach. IEEE Transactions on Automatic Control, 2019, 64, 3034-3039.	3.6	81
17	On the Finite-Time Regulation of Euler-Lagrange Systems Without Velocity Measurements. IEEE Transactions on Automatic Control, 2018, 63, 4309-4316.	3.6	10
18	An SOS method for the design of continuous and discontinuous differentiators. International Journal of Control, 2018, 91, 2597-2614.	1.2	21

#	ARTICLE	IF	CITATIONS
19	Strict Lyapunov functions for homogeneous finite-time second-order systems. , 2018, , .		16
20	Leaderless and Leader-Follower Consensus of Euler-Lagrange Agents: Finite-Time Convergence Without Velocity Measurements. , 2018, , .		1
21	Finite-Time Regulation of Robots: a Strict Lyapunov Function Approach. IFAC-PapersOnLine, 2018, 51, 279-284.	0.5	6
22	An output-feedback global continuous control scheme with desired gravity compensation for the finite-time and exponential regulation of bounded-input robotic systems. IFAC-PapersOnLine, 2018, 51, 108-114.	0.5	3
23	Lyapunov-based design for a class of variable-gain 2nd-order sliding controllers with the desired convergence rate. International Journal of Robust and Nonlinear Control, 2018, 28, 5279-5296.	2.1	15
24	Homogeneous High Order Sliding Mode design: A Lyapunov approach. Automatica, 2017, 80, 232-238.	3.0	114
25	Finite-time regulation of fully-actuated euler-lagrange systems without velocity measurements. , 2017, , .		1
26	Finite-Time Regulation of Robot Manipulators: an Energy Shaping Approach * *The authors thank the financial support from PAPIIT-UNAM, project IN113614; Fondo de Colaboracin II-FI UNAM, Project IISGBAS-100-2015; CONACyT, project 241171; and the financial support of the Mexican CONACyT through the postdoctoral scholarship CVU 267513.. IFAC-PapersOnLine, 2017, 50, 9583-9588.	0.5	2
27	Lyapunov Functions for Continuous and Discontinuous Differentiators. IFAC-PapersOnLine, 2016, 49, 660-665.	0.5	51
28	A new class of fast finite-time discontinuous controllers. , 2014, , .		10
29	Improved Convergence Rate of Discontinuous Finite-Time Controllers. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2014, 47, 8636-8641.	0.4	9
30	Fast second-order Sliding Mode Control design based on Lyapunov function. , 2013, , .		8
31	Asymptotic stabilization in fixed time via sliding mode control. , 2012, , .		4
32	Uniform Robust Exact Differentiator. IEEE Transactions on Automatic Control, 2011, 56, 2727-2733.	3.6	410
33	Adaptive Gains Super-Twisting Algorithm for Systems with Growing Perturbations. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2011, 44, 3039-3044.	0.4	11
34	Second-order uniform exact sliding mode control with uniform sliding surface. , 2011, , .		6
35	Uniform Second-Order Sliding Mode Observer for mechanical systems. , 2010, , .		65
36	Uniform Robust Exact Differentiator. , 2010, , .		11