Fernando CastaÃ±os

List of Publications by Year
in descending order

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34	896	840119 11	525886 27
papers	citations	h-index	g-index

35	35	35	764
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Robust finite-time stabilisation of an arbitrary-order nonholonomic system in chained form. Automatica, 2022, 135, 109956.	3.0	10
2	Observerâ€based predictor for a susceptibleâ€infectiousâ€recovered model with delays: An optimalâ€control case study. International Journal of Robust and Nonlinear Control, 2021, 31, 5118-5133.	2.1	6
3	A simple criterion to design optimal non-pharmaceutical interventions for mitigating epidemic outbreaks. Journal of the Royal Society Interface, 2021, 18, 20200803.	1.5	26
4	Limit Cycles in Locally Hamiltonian Systems with Dissipation. IFAC-PapersOnLine, 2021, 54, 192-197.	0.5	0
5	A notion of equivalence for linear complementarity problems Applications to the design of nonsmooth bifurcations. IFAC-PapersOnLine, 2020, 53, 5435-5440.	0.5	0
6	Continuous and discrete-time stability of a robust set-valued nested controller. Automatica, 2019, 107, 406-417.	3.0	8
7	Sliding Motions on SO(3), Sliding Subgroups. , 2019, , .		3
8	Implicit IDA-PBC for Underactuated Mechanical Systems: An LMI-based Approach. , 2019, , .		1
9	Passivity-based PI control of first-order systems with I/O communication delays: aÂfrequency domain analysis. International Journal of Control, 2018, 91, 2549-2562.	1.2	7
10	Homogeneous Generalisation of the Lurâ€™e Problem and the Circle Criterion. IFAC-PapersOnLine, 2018, 51, 514-519.	0.5	1
11	Errata to â€œMultivalued Robust Tracking Control of Lagrange Systems: Continuous and Discrete-Time Algorithmsâ€•[Sep 17 4436-4450]. IEEE Transactions on Automatic Control, 2018, 63, 2750-2750.	3.6	2
12	Multivalued Robust Tracking Control of Lagrange Systems: Continuous and Discrete-Time Algorithms. IEEE Transactions on Automatic Control, 2017, 62, 4436-4450.	3.6	39
13	Implementing robust neuromodulation in neuromorphic circuits. Neurocomputing, 2017, 233, 3-13.	3.5	7
14	The geometric structure of interconnected thermo-mechanical systems. * *The first author acknowledges the research grant 17-11-01093 from the Russian Science Foundation.. IFAC-PapersOnLine, 2017, 50, 582-587.	0.5	4
15	Set-valued discrete-time sliding-mode control of uncertain linear systems. IFAC-PapersOnLine, 2017, 50, 9607-9612.	0.5	1
16	A set-valued nested sliding-mode controller. IFAC-PapersOnLine, 2017, 50, 2971-2976.	0.5	2
17	Output feedback slidingâ€mode control with unmatched disturbances, an ISS approach. International Journal of Robust and Nonlinear Control, 2016, 26, 4056-4071.	2.1	6
18	Zero-dynamics design and its application to the stabilization of implicit systems. Systems and Control Letters, 2016, 98, 74-78.	1.3	9

#	Article	IF	Citations
19	Passivity-based control of implicit port-Hamiltonian systems with holonomic constraints. Systems and Control Letters, 2016, 94, 11-18.	1.3	12
20	Minâ€“max piecewise constant optimal control for multi-model linear systems. IMA Journal of Mathematical Control and Information, 2016, 33, 1157-1176.	1.1	4
21	Interconnection and damping assignment for implicit port-Hamiltonian systemsâˆ—â€—The work of the second author was supported by the research grant 9.50.1197.2014 from the St. Petersburg State University.. IFAC-PapersOnLine, 2015, 48, 1006-1011.	0.5	0
22	Ditherless Extremum Seeking for Hydrogen Minimization in PEM Fuel Cells. IEEE Transactions on Industrial Electronics, 2015, 62, 5218-5226.	5.2	11
23	ISS-Lyapunov functions for output feedback sliding modes. , 2014, , .		1
24	Quantised and sampled output feedback for nonlinear systems. International Journal of Control, 2014, 87, 2475-2487.	1.2	9
25	Integral sliding-mode control for linear time-invariant implicit systems. Automatica, 2014, 50, 971-975.	3.0	51
26	Pole-Placement in Higher-Order Sliding-Mode Control. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2014, 47, 1386-1391.	0.4	11
27	Implicit and explicit representations of continuous-time port-Hamiltonian systems. Systems and Control Letters, 2013, 62, 324-330.	1.3	11
28	Integral Sliding Mode Control for Nonlinear Systems With Matched and Unmatched Perturbations. IEEE Transactions on Automatic Control, 2011, 56, 2699-2704.	3.6	229
29	"Dynamic switching surfaces for output sliding mode control: An <mml:math altimg="si8.gif" display="inline" overflow="scroll" xmlns:xocs="http://www.elsevier.com/xml/xocs/dtd" xmlns:xs="http://www.w3.org/2001/XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns="http://www.elsevier.com/xml/ja/dtd" xmlns:ja="http://www.elsevier.com/xml/ja/dtd" xmlns:mml="http://www.w3.org/1998/Math/MathML" xmlns:tb="http://www.elsevier.com/xml/common/table/dtd" xmlns:sb="http://www.elsevier.com/xml/com	3.0	23
30	Discussion on: â€œEnergy Shaping of Port-Hamiltonian Systems by Using Alternate Passive Input-Output Pairsâ€• European Journal of Control, 2010, 16, 678-679.	1.6	0
31	Energy-balancing passivity-based control is equivalent to dissipation and output invariance. Systems and Control Letters, 2009, 58, 553-560.	1.3	19
32	Asymptotic stabilization via control by interconnection of port-Hamiltonian systems. Automatica, 2009, 45, 1611-1618.	3.0	26
33	Control by Interconnection and Standard Passivity-Based Control of Port-Hamiltonian Systems. IEEE Transactions on Automatic Control, 2008, 53, 2527-2542.	3.6	255
34	Passivity of nonlinear incremental systems: Application to PI stabilization of nonlinear RLC circuits. Systems and Control Letters, 2007, 56, 618-622.	1.3	96