Duarte Antunes

List of Publications by Year
in descending order

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42	943	687220 13	526166 27
papers	citations	h-index	g-index

42	42	42	838
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Self-triggered linear quadratic control. Automatica, 2014, 50, 1279-1287.	3.0	138
2	Intercellular Variability in Protein Levels from Stochastic Expression and Noisy Cell Cycle Processes. PLoS Computational Biology, 2016, 12, e1004972.	1.5	116
3	Stability of networked control systems with asynchronous renewal links: An impulsive systems approach. Automatica, 2013, 49, 402-413.	3.0	75
4	Periodic Event-Triggered Sampling and Dual-Rate Control for a Wireless Networked Control System With Applications to UAVs. IEEE Transactions on Industrial Electronics, 2019, 66, 3157-3166.	5.2	72
5	Output-Based Event-Triggered Control with Performance Guarantees. IEEE Transactions on Automatic Control, 2017, 62, 3646-3652.	3.6	66
6	Volterra Integral Approach to Impulsive Renewal Systems: Application to Networked Control. IEEE Transactions on Automatic Control, 2012, 57, 607-619.	3.6	60
7	Stochastic Hybrid Systems with Renewal Transitions: Moment Analysis with Application to Networked Control Systems with Delays. SIAM Journal on Control and Optimization, 2013, 51, 1481-1499.	1.1	36
8	Quantifying gene expression variability arising from randomness in cell division times. Journal of Mathematical Biology, 2015, 71, 437-463.	0.8	30
9	Stochastic thresholds in event-triggered control: A consistent policy for quadratic control. Automatica, 2018, 89, 376-381.	3.0	28
10	Lighting systems and strategies compared in an optimally controlled greenhouse. Biosystems Engineering, 2021, 202, 195-216.	1.9	27
11	Stochastic Networked Control Systems with Dynamic Protocols. Asian Journal of Control, 2015, 17, 99-110.	1.9	26
12	A Consistent Threshold-Based Policy for Event-Triggered Control. , 2018, 2, 447-452.		23
13	Consistent Dynamic Event-Triggered Policies for Linear Quadratic Control. IEEE Transactions on Control of Network Systems, 2018, 5, 1386-1398.	2.4	20
14	Consistent event-triggered methods for linear quadratic control. , 2016, , .		19
15	Beyond Performance/Cost Tradeoffs in Motion Control: A Multirate Feedforward Design With Application to a Dual-Stage Wafer System. IEEE Transactions on Control Systems Technology, 2020, 28, 448-461.	3.2	16
16	Control of impulsive renewal systems: Application to direct design in networked control. , 2009, , .		15
17	Consistent Event-Triggered Control for Discrete-Time Linear Systems With Partial State Information. , 2020, 4, 181-186.		14
18	Frequency-Domain Analysis of Networked Control Systems Modeled by Markov Jump Linear Systems. IEEE Transactions on Control of Network Systems, 2021, 8, 906-916.	2.4	13

#	Article	IF	Citations
19	On the design of multiâ€rate tracking controllers: Application to rotorcraft guidance and control. International Journal of Robust and Nonlinear Control, 2010, 20, 1879-1902.	2.1	11
20	Scheduling measurements and controls over networks — Part I: Rollout strategies for protocol design. , 2012, , .		11
21	Optimal-time quadcopter descent trajectories avoiding the vortex ring and autorotation states. Mechatronics, 2020, 68, 102362.	2.0	11
22	Frequency-Domain Analysis of Control Loops With Intermittent Data Losses. IEEE Transactions on Automatic Control, 2016, 61, 2295-2300.	3.6	10
23	Weather forecast error modelling and performance analysis of automatic greenhouse climate control. Biosystems Engineering, 2022, 214, 207-229.	1.9	10
24	Stability of impulsive systems driven by renewal processes. , 2009, , .		9
25	Opportunities for control engineering in arable precision agriculture. Annual Reviews in Control, 2021, 51, 47-55.	4.4	9
26	Output regulation for nonâ€square linear multiâ€rate systems. International Journal of Robust and Nonlinear Control, 2014, 24, 968-990.	2.1	8
27	Impulsive systems triggered by superposed renewal processes. , 2010, , .		7
28	A Decentralized Consistent Policy for Event-triggered Control over a Shared Contention - based Network. , 2018, , .		7
29	Decentralized LQ-Consistent Event-Triggered Control Over a Shared Contention-Based Network. IEEE Transactions on Automatic Control, 2022, 67, 1430-1437.	3.6	7
30	An Optimal LQG Controller for Stochastic Event-triggered Scheduling over a Lossy Communication Network. IFAC-PapersOnLine, 2018, 51, 58-63.	0.5	6
31	Switched LQG control for linear systems with multiple sensing methods. Automatica, 2019, 103, 217-229.	3.0	6
32	Embedded Learning-based Model Predictive Control for Mobile Robots using Gaussian Process Regression. , 2020, , .		6
33	An <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" id="d1e171" altimg="si10.svg"><mml:msub><mml:mrow><mml:mi>â„“</mml:mi></mml:mrow><mml:mrow><mml:mn>2</mml:mn></mml:mrow event-triggered control policy for linear systems. Automatica, 2021, 125, 109412.	3.0	6
34	Fruit development modelling and performance analysis of automatic greenhouse control. Biosystems Engineering, 2021, 208, 300-318.	1.9	5
35	Event-Driven Control With Deadline Optimization for Linear Systems With Stochastic Delays. IEEE Transactions on Control of Network Systems, 2018, 5, 1819-1829.	2.4	4
36	An L₂-Consistent Data Transmission Sequence for Linear Systems. , 2019, , .		4

#	Article	IF	Citations
37	Event- and Deadline-Driven Control of a Self-Localizing Robot With Vision-Induced Delays. IEEE Transactions on Industrial Electronics, 2020, 67, 1212-1221.	5.2	4
38	Stochastic networked control systems with dynamic protocols. , 2011, , .		3
39	Rollout strategies for output-based event-triggered control. , 2015, , .		2
40	Nyquist stability criteria for control systems with stochastic delays. , 2018, , .		2
41	Novel Bounds on the Probability of Misclassification in Majority Voting: Leveraging the Majority Size. , 2021, 5, 1513-1518.		1
42	Coverage control for outbreak dynamics. , 2017, , .		0