

Joao Manoel Gomes da Silva Junior

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/5399040/publications.pdf>

Version: 2024-02-01

125
papers

3,290
citations

279487

23
h-index

189595

50
g-index

125
all docs

125
docs citations

125
times ranked

1431
citing authors

#	ARTICLE	IF	CITATIONS
1	Stability and Stabilization of Aperiodic Sampled-Data Systems Subject to Control Input Saturation: A Set Invariant Approach. IEEE Transactions on Automatic Control, 2022, 67, 1423-1429.	3.6	17
2	Aperiodic sampled-data MPC strategy for LPV systems. Journal of the Franklin Institute, 2022, 359, 786-815.	1.9	4
3	Polyhedral Regions of Stability for Aperiodic Sampled-Data Linear Control Systems With Saturating Inputs. , 2022, 6, 241-246.		3
4	Disturbance Rejection for Uncertain Discrete-Time Linear Systems Through Event-Triggered Control. Journal of Control, Automation and Electrical Systems, 2022, 33, 103-114.	1.2	2
5	Regional Stability of Nonlinear Sampled-Data Controlled Systems Under Actuator Saturation: A Quasi-LPV Approach. Advances in Delays and Dynamics, 2022, , 189-207.	0.4	0
6	Necessary and Sufficient Convex Condition for the Stabilization of Linear Sampled-Data Systems Under Poisson Sampling Process. , 2022, 6, 3403-3408.		3
7	Periodic Event-Triggered Control for Linear Systems in the Presence of Cone-Bounded Nonlinear Inputs: A Discrete-Time Approach. Journal of Control, Automation and Electrical Systems, 2021, 32, 42-56.	1.2	4
8	Regional stabilization of nonlinear sampled-data control systems: A quasi-LPV approach. European Journal of Control, 2021, 59, 301-312.	1.6	10
9	Tuning of Proportional-Resonant Controllers Combined with Phase-Lead Compensators Based on the Frequency Response. Journal of Control, Automation and Electrical Systems, 2021, 32, 910-926.	1.2	3
10	Controller and anti-windup co-design for the output regulation of rational systems subject to control saturation. International Journal of Robust and Nonlinear Control, 2021, 31, 1395-1417.	2.1	5
11	Event-Triggered Synchronization of Saturated Lur ^e -type Systems. , 2021, , .		0
12	Stabilization of Discrete-Time Piecewise Affine Systems in Implicit Representation. , 2021, , .		1
13	Stabilization of Sampled-Data Lure Systems with Slope-Restricted Nonlinearities. , 2021, , .		1
14	Stabilization of Aperiodic Sampled-data Linear Systems with Input Constraints: a Low Complexity Polyhedral Approach. , 2021, , .		0
15	Regional Stabilization of Input-Delayed Uncertain Nonlinear Polynomial Systems. IEEE Transactions on Automatic Control, 2020, 65, 2300-2307.	3.6	8
16	Observer-based event-triggered control for systems with slope-restricted nonlinearities. International Journal of Robust and Nonlinear Control, 2020, 30, 7409-7428.	2.1	7
17	Guest Editorial Introduction to the Special Issue of the IEEE L-CSS on Learning and Control. , 2020, 4, 710-712.		1
18	Event-Triggered Tracking Control: a Discrete-Time Approach. IFAC-PapersOnLine, 2020, 53, 4565-4570.	0.5	3

#	ARTICLE	IF	CITATIONS
19	Event-triggered control co-design for rational systems. IFAC-PapersOnLine, 2020, 53, 2720-2725.	0.5	0
20	Observer-based event-triggered control in the presence of cone-bounded nonlinear inputs. Nonlinear Analysis: Hybrid Systems, 2019, 33, 17-32.	2.1	16
21	Robust Control for Boost Converters with Anti-Windup Compensation. , 2019, , .		0
22	Stability analysis of rational nonlinear sampled-data control systems: a looped-functional approach. , 2019, , .		2
23	PI event-triggered control under saturating actuators. International Journal of Control, 2019, 92, 1634-1644.	1.2	21
24	Stabilisation of discrete-time systems with finite-level uniform and logarithmic quantisers. IET Control Theory and Applications, 2018, 12, 1125-1132.	1.2	12
25	Stability of Sampled-Data Control Systems Under Aperiodic Sampling and Input Saturation. , 2018, , .		5
26	Synchronization of discrete-time Lur ^e systems under saturating control. , 2018, , .		2
27	Synchronization Analysis of Piecewise-Linear Lur ^e Systems under Sampled-Data Control. IFAC-PapersOnLine, 2018, 51, 234-239.	0.5	0
28	Aperiodic sampled-data control for LPV systems under input saturation. IFAC-PapersOnLine, 2018, 51, 130-136.	0.5	6
29	Regional stability analysis of nonlinear sampled-data control systems: a quasi-LPV approach. , 2018, , .		6
30	Disturbance attenuation for LPV systems under sampled-data control. International Journal of Robust and Nonlinear Control, 2018, 28, 5019-5032.	2.1	13
31	Saturation-aware control design for micro/nano positioning systems. IET Control Theory and Applications, 2017, 11, 2559-2566.	1.2	5
32	Dynamic controller design for synchronization of Lur ^e type systems subject to control saturation. IFAC-PapersOnLine, 2017, 50, 11853-11858.	0.5	6
33	Event-triggered Control for Nonlinear Rational Systems * *This work was supported by CAPES (PhD) Tj ETQq1 1 0.784314 rgBT /Overlaid Brazil.. IFAC-PapersOnLine, 2017, 50, 15307-15312.	0.5	6
34	Observer-based event-triggered control for linear systems subject to cone-bounded nonlinearities. IFAC-PapersOnLine, 2017, 50, 7893-7898.	0.5	14
35	Sampled-data control under magnitude and rate saturating actuators. International Journal of Robust and Nonlinear Control, 2016, 26, 3232-3252.	2.1	20
36	Stability of Discrete-time Control Systems with Uniform and Logarithmic Quantizers. IFAC-PapersOnLine, 2016, 49, 132-137.	0.5	3

#	ARTICLE	IF	CITATIONS
37	A discrete-time framework for proximate time-optimal performance of damped servomechanisms. <i>Mechatronics</i> , 2016, 36, 27-35.	2.0	7
38	Regional Stability Analysis of Discrete-Time Dynamic Output Feedback Under Aperiodic Sampling and Input Saturation. <i>IEEE Transactions on Automatic Control</i> , 2016, 61, 4176-4182.	3.6	37
39	Event-Triggered State-Feedback Control for Continuous-Time Plants Subject to Input Saturation. <i>Journal of Control, Automation and Electrical Systems</i> , 2016, 27, 473-484.	1.2	30
40	Observer-based event-triggered control co-design for linear systems. <i>IET Control Theory and Applications</i> , 2016, 10, 2466-2473.	1.2	54
41	Observer-based event-triggered control: A discrete-time approach. , 2016, , .		13
42	Event-triggered PI control for continuous plants with input saturation. , 2016, , .		5
43	Event-triggered control co-design for discrete-time systems subject to actuator saturation. , 2016, , .		8
44	A systematic approach for robust repetitive controller design. <i>Control Engineering Practice</i> , 2016, 54, 214-222.	3.2	20
45	Wave Equation With Cone-Bounded Control Laws. <i>IEEE Transactions on Automatic Control</i> , 2016, 61, 3452-3463.	3.6	50
46	Dynamic anti-windup design for a class of nonlinear systems. <i>International Journal of Control</i> , 2016, 89, 2406-2419.	1.2	11
47	Sampled-data LPV Control: a Looped Functional Approach**. V. Flores and J. M. Gomes da Silva, Jr. are supported by the Brazilian National Council for Research (CNPq) under Grant Nos. 443979/2014-6, 480638/2012-8 and 306210/2009-6. V.M. Moraes and A.H.K. Palmeira are supported by CAPES scholarships, Brazil.. <i>IFAC-PapersOnLine</i> , 2015, 48, 19-24.	0.5	2
48	Stability analysis of sampled-data control systems under magnitude and rate saturating actuators. , 2015, , .		3
49	Antiwindup Design for Zero-Phase Repetitive Controllers. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME</i> , 2015, 137, .	0.9	2
50	Local input-to-state stabilization and H_2 -induced norm control of discrete-time quadratic systems. <i>International Journal of Robust and Nonlinear Control</i> , 2015, 25, 2420-2442.	2.1	6
51	A state feedback input constrained control design for a 4-semi-active damper suspension system: a quasi-LPV approach. <i>IFAC-PapersOnLine</i> , 2015, 48, 259-264.	0.5	15
52	Semi-active suspension control problem: Some new results using an LPV/ H_2 state feedback input constrained control. , 2015, , .		12
53	Stability analysis of nonlinear rational sampled-data control systems over communication networks. , 2015, , .		3
54	Well-posedness and stability of a 1D wave equation with saturating distributed input. , 2014, , .		7

#	ARTICLE	IF	CITATIONS
55	Static anti-windup design for a class of nonlinear systems. International Journal of Robust and Nonlinear Control, 2014, 24, 793-810.	2.1	44
56	Multiple Resonant Controllers for Uninterruptible Power Supplies—A Systematic Robust Control Design Approach. IEEE Transactions on Industrial Electronics, 2014, 61, 1528-1538.	5.2	139
57	Event-triggered PI control design.. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2014, 47, 6947-6952.	0.4	15
58	An event-triggered observer based control strategy for SISO systems. , 2014, , .		6
59	Design of Anti-Windup Compensators for a Class of Nonlinear Control Systems with Actuator Saturation. Journal of Control, Automation and Electrical Systems, 2013, 24, 212-222.	1.2	4
60	Dynamic output feedback stabilization for systems with sector-bounded nonlinearities and saturating actuators. Journal of the Franklin Institute, 2013, 350, 464-484.	1.9	41
61	Regional stabilization of rational discrete-time systems with magnitude control constraints. , 2013, , .		3
62	Tracking and rejection of periodic signals for discrete-time linear systems subject to control saturation. IET Control Theory and Applications, 2013, 7, 363-371.	1.2	4
63	Stability analysis for a class of nonlinear discrete-time control systems subject to disturbances and to actuator saturation. International Journal of Control, 2013, 86, 869-882.	1.2	8
64	Acceleration enhancement factor for damped systems subject to the discrete Proximate Time-Optimal Servomechanism. , 2013, , .		2
65	Anti-windup design with guaranteed stability regions for resonant and repetitive controllers. * *The authors are supported in part by CNPq, Brazil.. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2013, 46, 935-940.	0.4	0
66	State feedback design for rational nonlinear control systems with saturating inputs. , 2012, , .		5
67	Static anti-windup for systems with sector-bounded nonlinearities. , 2012, , .		2
68	Taking into account period variations and actuator saturation in sampled-data systems. Systems and Control Letters, 2012, 61, 1286-1293.	1.3	90
69	Discussion on: “Stabilization Under Constrained States and Controls of Positive Systems with Time Delays” European Journal of Control, 2012, 18, 191-193.	1.6	0
70	Repetitive Control Design for MIMO Systems With Saturating Actuators. IEEE Transactions on Automatic Control, 2012, 57, 192-198.	3.6	25
71	Output Feedback Controller Design for systems with Amplitude and Rate Control Constraints. Asian Journal of Control, 2012, 14, 1113-1117.	1.9	15
72	Anti-windup design for a class of multivariable nonlinear control systems: An LMI-based approach. , 2011, , .		7

#	ARTICLE	IF	CITATIONS
73	Repetitive controller design for uninterruptible power supplies: An LMI approach. , 2011, , .		13
74	Stability and Stabilization of Linear Systems with Saturating Actuators. , 2011, , .		464
75	Stabilisation of neutral systems with saturating control inputs. International Journal of Systems Science, 2011, 42, 1093-1103.	3.7	43
76	Static anti-windup synthesis for linear systems with time-varying input delays. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2011, 44, 14483-14488.	0.4	4
77	Anti-windup Design for a Class of Nonlinear Control Systems. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2011, 44, 13432-13437.	0.4	8
78	Networked control: taking into account sample period variations and actuators saturation. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2011, 44, 14501-14506.	0.4	2
79	Convex framework for the design of dynamic anti-windup for state-delayed systems. IET Control Theory and Applications, 2011, 5, 1388-1396.	1.2	15
80	Control design for LPV systems with input saturation and state constraints: An application to a semi-active suspension. , 2011, , .		22
81	Computing estimates of the region of attraction for rational control systems with saturating actuators. IET Control Theory and Applications, 2010, 4, 315-325.	1.2	49
82	Robust repetitive control with saturating actuators: a LMI approach. , 2010, , .		10
83	Asymptotic and L_2 stability analysis for a class of nonlinear discrete-time control systems subject to actuator saturation. , 2010, , .		4
84	A convex framework for the design of dynamic anti-windup for state-delayed systems. , 2010, , .		2
85	Robust periodic reference tracking for uncertain linear systems subject to control saturations. , 2009, , .		7
86	Dynamic periodic observer for a combustion engine test bench. , 2009, , .		2
87	Dynamic anti-windup synthesis for state delayed systems: an LMI approach. , 2009, , .		6
88	Finite H_2 gain and internal stabilisation of linear systems subject to actuator and sensor saturations. IET Control Theory and Applications, 2009, 3, 799-812.	1.2	21
89	Dynamic Output Feedback for Discrete-Time Systems Under Amplitude and Rate Actuator Constraints. IEEE Transactions on Automatic Control, 2008, 53, 2367-2372.	3.6	47
90	Non-rational dynamic output feedback for time-delay systems with saturating inputs. International Journal of Control, 2008, 81, 557-570.	1.2	18

#	ARTICLE	IF	CITATIONS
91	Acceleration-Bounded Control Design for Actuator Fault Prevention. Proceedings of the American Control Conference, 2007, , .	0.0	1
92	Correction to "Antiwindup Design With Guaranteed Regions of Stability: An LMI-Based Approach". IEEE Transactions on Automatic Control, 2007, 52, 144-144.	3.6	6
93	Estimating the Region of Attraction of Nonlinear Control Systems with Saturating Actuators. Proceedings of the American Control Conference, 2007, , .	0.0	21
94	Design of time-varying controllers for discrete-time linear systems with input saturation. IET Control Theory and Applications, 2007, 1, 155-162.	1.2	17
95	Dynamic output controller design for linear systems with actuator and sensor saturation. Proceedings of the American Control Conference, 2007, , .	0.0	19
96	Anti-windup Design for Time-delay Systems Subject to Input Saturation An LMI-based Approach. European Journal of Control, 2006, 12, 622-634.	1.6	33
97	Stability Analysis and Stabilization of Systems Presenting Nested Saturations. IEEE Transactions on Automatic Control, 2006, 51, 1364-1371.	3.6	226
98	H_2 -Stabilization of continuous-time linear systems with saturating actuators. International Journal of Robust and Nonlinear Control, 2006, 16, 935-944.	2.1	39
99	Anti-windup design with guaranteed regions of stability for discrete-time linear systems. Systems and Control Letters, 2006, 55, 184-192.	1.3	111
100	Antiwindup design with guaranteed regions of stability: an LMI-based approach. IEEE Transactions on Automatic Control, 2005, 50, 106-111.	3.6	431
101	Improved MPC Design based on Saturating Control Laws*. European Journal of Control, 2005, 11, 112-122.	1.6	13
102	Anti-windup design with guaranteed regions of stability for discrete-time linear systems with saturating controls. Controle and Automacao, 2004, 15, 3-9.	0.2	6
103	Application of hybrid and polytopic modeling to the stability analysis of linear systems with saturating inputs. Controle and Automacao, 2004, 15, 401-412.	0.2	1
104	Pole assignment in a disk for linear systems by static output feedback. IET Control Theory and Applications, 2004, 151, 706-712.	1.7	7
105	Delay-dependent anti-windup strategy for linear systems with saturating inputs and delayed outputs. International Journal of Robust and Nonlinear Control, 2004, 14, 665-682.	2.1	70
106	Stability analysis and stabilization of systems presenting nested saturations. , 2004, , .		7
107	LMI approach for L_2 -Control of linear systems with saturating actuators. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2004, 37, 267-272.	0.4	3
108	Local stabilization of linear systems under amplitude and rate saturating actuators. IEEE Transactions on Automatic Control, 2003, 48, 842-847.	3.6	75

#	ARTICLE	IF	CITATIONS
109	Improving the stability region of saturated linear systems controlled by dynamic delayed output feedback through anti-windup strategy. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2003, 36, 41-46.	0.4	0
110	A web-based remote laboratory for control education. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2003, 36, 43-48.	0.4	2
111	Web-based control experiments on a foundation Fieldbus pilot plant. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2003, 36, 323-328.	0.4	8
112	Delay-Dependent Anti-Windup Loops for Enlarging the Stability Region of Time Delay Systems With Saturating Inputs. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2003, 125, 265-267.	0.9	37
113	Synthesis of anti-windup loops for enlarging the stability region of time-delay systems with saturating inputs. , 2003, , .		3
114	Robust stability of uncertain polytopic linear time-delay systems with saturating inputs: an LMI approach. Computers and Electrical Engineering, 2002, 28, 157-169.	3.0	21
115	Local stabilization of discrete-time linear systems with saturating controls: an LMI-based approach. IEEE Transactions on Automatic Control, 2001, 46, 119-125.	3.6	188
116	Stability and disturbance tolerance for linear systems with bounded controls. , 2001, , .		3
117	Synthesis of controllers for continuous-time delay systems with saturating controls via LMIs. IEEE Transactions on Automatic Control, 2000, 45, 105-111.	3.6	190
118	Stability regions for linear systems with saturating controls. , 1999, , .		17
119	Polyhedral regions of local stability for linear discrete-time systems with saturating controls. IEEE Transactions on Automatic Control, 1999, 44, 2081-2085.	3.6	49
120	Local stabilization of discrete-time linear systems with saturating controls: an LMI-based approach. , 1998, , .		10
121	Dynamic output feedback under state and control constraints. , 1997, , .		4
122	A reduced-order framework applied to linear systems with constrained controls. IEEE Transactions on Automatic Control, 1996, 41, 249-255.	3.6	22
123	L>inf<2>/inf<performance design problem for systems presenting nested saturations. , 0, , .		0
124	Dynamic Output Feedback for Discrete-Time Systems under Amplitude and Rate Actuator Constraints. , 0, , .		8
125	SÃntese de parÃmetros de controladores Proporcionalis-Ressonantes atravÃs do mÃtodo da resposta em frequÃncia. , 0, , .		1