

# Sophie Tarbouriech

## List of Publications by Year in descending order

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165  
papers

4,764  
citations

147566

31  
h-index

128067

60  
g-index

168  
all docs

168  
docs citations

168  
times ranked

1877  
citing authors

#	ARTICLE	IF	CITATIONS
1	Anti-windup design: an overview of some recent advances and open problems. IET Control Theory and Applications, 2009, 3, 1-19.	1.2	508
2	Stability and Stabilization of Linear Systems with Saturating Actuators. , 2011, , .		464
3	Antiwindup design with guaranteed regions of stability: an LMI-based approach. IEEE Transactions on Automatic Control, 2005, 50, 106-111.	3.6	431
4	Stability Analysis and Stabilization of Systems Presenting Nested Saturations. IEEE Transactions on Automatic Control, 2006, 51, 1364-1371.	3.6	226
5	A Tutorial on Modern Anti-windup Design. European Journal of Control, 2009, 15, 418-440.	1.6	225
6	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
7	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
8	Stability regions for linear systems with saturating controls via circle and Popov criteria. , 0, , .		126
9	Anti-windup design with guaranteed regions of stability for discrete-time linear systems. Systems and Control Letters, 2006, 55, 184-192.	1.3	111
10	Control design for a class of nonlinear continuous-time systems. Automatica, 2008, 44, 2034-2039.	3.0	99
11	Local stabilization of linear systems under amplitude and rate saturating actuators. IEEE Transactions on Automatic Control, 2003, 48, 842-847.	3.6	75
12	State estimation of linear systems in the presence of sporadic measurements. Automatica, 2016, 73, 101-109.	3.0	72
13	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
14	LQ-based event-triggered controller co-design for saturated linear systems. Automatica, 2016, 74, 47-54.	3.0	68
15	Stabilization of linear impulsive systems through a nearly-periodic reset. Nonlinear Analysis: Hybrid Systems, 2013, 7, 4-15.	2.1	67
16	Optimization and implementation of dynamic anti-windup compensators with multiple saturations in flight control systems. Control Engineering Practice, 2009, 17, 703-713.	3.2	65
17	State feedback design for input-saturating quadratic systems. Automatica, 2010, 46, 1196-1202.	3.0	62
18	LMI relaxations for robust stability of linear systems with saturating controls. Automatica, 1999, 35, 1599-1604.	3.0	55

#	ARTICLE	IF	CITATIONS
19	Observer-based event-triggered control co-design for linear systems. IET Control Theory and Applications, 2016, 10, 2466-2473.	1.2	54
20	Design of Polynomial Control Laws for Polynomial Systems Subject to Actuator Saturation. IEEE Transactions on Automatic Control, 2013, 58, 1758-1770.	3.6	52
21	Wave Equation With Cone-Bounded Control Laws. IEEE Transactions on Automatic Control, 2016, 61, 3452-3463.	3.6	50
22	Lyapunov-based hybrid loops for stability and performance of continuous-time control systems. Automatica, 2013, 49, 577-584.	3.0	49
23	Stabilization of continuous-time linear systems subject to input quantization. Automatica, 2015, 58, 167-172.	3.0	44
24	On-ground aircraft control design using a parameter-varying anti-windup approach. Aerospace Science and Technology, 2010, 14, 459-471.	2.5	43
25	Analysis of regions of stability for linear systems with saturating inputs through an anti-windup scheme. , 0, , .		42
26	Control Design for Quantized Linear Systems With Saturations. IEEE Transactions on Automatic Control, 2012, 57, 1883-1889.	3.6	41
27	$H_2$ -Stabilization of continuous-time linear systems with saturating actuators. International Journal of Robust and Nonlinear Control, 2006, 16, 935-944.	2.1	39
28	Time-Varying Sampled-Data Observer With Asynchronous Measurements. IEEE Transactions on Automatic Control, 2019, 64, 869-876.	3.6	39
29	Rank-one LMI approach to simultaneous stabilization of linear systems. Systems and Control Letters, 1999, 38, 79-89.	1.3	38
30	Stability Analysis and Stabilization of Systems With Input Backlash. IEEE Transactions on Automatic Control, 2014, 59, 488-494.	3.6	38
31	Intelligent anti-windup for systems with input magnitude saturation. International Journal of Robust and Nonlinear Control, 1998, 8, 1085-1100.	2.1	37
32	Regional Stability Analysis of Discrete-Time Dynamic Output Feedback Under Aperiodic Sampling and Input Saturation. IEEE Transactions on Automatic Control, 2016, 61, 4176-4182.	3.6	37
33	Stability analysis for linear systems with input backlash through sufficient LMI conditions. Automatica, 2010, 46, 1911-1915.	3.0	35
34	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
35	Output tracking problem for systems with input saturations via nonlinear integrating actions. International Journal of Robust and Nonlinear Control, 2000, 10, 489-512.	2.1	30
36	LMI Approximations for the Radius of the Intersection of Ellipsoids: Survey. Journal of Optimization Theory and Applications, 2001, 108, 1-28.	0.8	29

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37	Stability region enlargement through anti-windup strategy for linear systems with dynamics restricted actuator. International Journal of Systems Science, 2006, 37, 79-90.	3.7	29
38	A Nonsmooth Hybrid Invariance Principle Applied to Robust Event-Triggered Design. IEEE Transactions on Automatic Control, 2019, 64, 2061-2068.	3.6	29
39	Stability and stabilization of delay differential systems. Automatica, 1997, 33, 347-354.	3.0	27
40	Anti-windup strategy for reset control systems. International Journal of Robust and Nonlinear Control, 2011, 21, 1159-1177.	2.1	26
41	Using Luenberger observers and dwell-time logic for feedback hybrid loops in continuous-time control systems. International Journal of Robust and Nonlinear Control, 2013, 23, 1065-1086.	2.1	25
42	Continuous-time saturated state feedback regulators: theory and design. International Journal of Systems Science, 1994, 25, 315-336.	3.7	22
43	Quadratic Stability for Hybrid Systems With Nested Saturations. IEEE Transactions on Automatic Control, 2012, 57, 1832-1838.	3.6	22
44	A hybrid scheme for reducing peaking in high-gain observers for a class of nonlinear systems. Automatica, 2016, 72, 138-146.	3.0	22
45	A PRACTICAL APPROACH TO PERFORMANCE ANALYSIS OF SATURATED SYSTEMS WITH APPLICATION TO FIGHTER AIRCRAFT FLIGHT CONTROLLERS. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2006, 39, 35-40.	0.4	21
46	Finite $\gamma$ -induced gain and $\gamma$ -contractivity of discrete-time switching systems including modal nonlinearities and actuator saturations. Nonlinear Analysis: Hybrid Systems, 2011, 5, 289-300.	2.1	21
47	PI event-triggered control under saturating actuators. International Journal of Control, 2019, 92, 1634-1644.	1.2	21
48	$L_2$ State Estimation With Guaranteed Convergence Speed in the Presence of Sporadic Measurements. IEEE Transactions on Automatic Control, 2019, 64, 3362-3369.	3.6	20
49	Ultimate bounded stability and stabilization of linear systems interconnected with generalized saturated functions. Automatica, 2011, 47, 1473-1481.	3.0	19
50	Event-triggered control with LQ optimality guarantees for saturated linear systems. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2013, 46, 341-346.	0.4	19
51	Anti-windup strategies for discrete-time switched systems subject to input saturation. International Journal of Control, 2016, 89, 919-937.	1.2	19
52	Analysis and Synthesis of Reset Control Systems. Foundations and Trends in Systems and Control, 2018, 6, 117-338.	3.8	19
53	Non-rational dynamic output feedback for time-delay systems with saturating inputs. International Journal of Control, 2008, 81, 557-570.	1.2	18
54	Stability regions for linear systems with saturating controls. , 1999, , .		17

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55	Observer-based event-triggered control in the presence of cone-bounded nonlinear inputs. Nonlinear Analysis: Hybrid Systems, 2019, 33, 17-32.	2.1	16
56	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
57	Anti-windup design for saturating quadratic systems. Systems and Control Letters, 2013, 62, 367-376.	1.3	15
58	Control design for synchronisation of identical linear multi-agent systems. International Journal of Control, 2018, 91, 2214-2229.	1.2	15
59	STABILITY AND STABILIZATION OF A CLASS OF NONLINEAR SYSTEMS WITH SATURATING ACTUATORS. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2005, 38, 729-734.	0.4	14
60	Observer-based event-triggered control for linear systems subject to cone-bounded nonlinearities. IFAC-PapersOnLine, 2017, 50, 7893-7898.	0.5	14
61	Some Results on Exponential Synchronization of Nonlinear Systems. IEEE Transactions on Automatic Control, 2018, 63, 1213-1219.	3.6	14
62	Regional Synchronization of Identical Linear Multiagent Systems Under Input Saturation. IEEE Transactions on Control of Network Systems, 2019, 6, 789-799.	2.4	14
63	Robust Kalman filtering for uncertain discrete-time linear systems. International Journal of Robust and Nonlinear Control, 2003, 13, 1225-1238.	2.1	13
64	Guaranteed stability for nonlinear systems by means of a hybrid loop. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2010, 43, 72-77.	0.4	13
65	High-Gain Dead-Zone Observers for Linear and Nonlinear Plants. , 2019, 3, 356-361.		13
66	Hybrid high-gain observers without peaking for planar nonlinear systems. , 2012, , .		12
67	Stabilisation of discrete-time systems with finite-level uniform and logarithmic quantisers. IET Control Theory and Applications, 2018, 12, 1125-1132.	1.2	12
68	New approach for the control of anesthesia based on dynamics decoupling. IFAC-PapersOnLine, 2015, 48, 511-516.	0.5	11
69	Event-triggered damping of a linear wave equation. IFAC-PapersOnLine, 2019, 52, 58-63.	0.5	11
70	LMI conditions for contraction and synchronization. IFAC-PapersOnLine, 2019, 52, 616-621.	0.5	11
71	Output-reference tracking problem for discrete-time systems with input saturations. IET Control Theory and Applications, 2000, 147, 447-455.	1.7	10
72	Improved Estimation of Stability Regions for Uncertain Linear Systems with Saturating Actuators: an LMI-based Approach. , 2006, , .		10

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73	Co-design of an event-triggered dynamic output feedback controller for discrete-time LPV systems with constraints. <i>Journal of the Franklin Institute</i> , 2022, 359, 697-718.	1.9	10
74	Event-triggered policy for dynamic output stabilization of discrete-time LPV systems under input constraints. <i>Systems and Control Letters</i> , 2021, 153, 104950.	1.3	10
75	LMI approximations for the radius of the intersection of ellipsoids. , 0, , .		9
76	A PRACTICAL METHOD FOR FIXED-ORDER ANTI-WINDUP DESIGN. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2007, 40, 675-680.	0.4	9
77	Infinite gain margin, contraction and optimality: An LMI-based design. <i>European Journal of Control</i> , 2022, 68, 100685.	1.6	9
78	Stabilization with eigenvalues placement of a norm bounded uncertain system by bounded inputs. <i>International Journal of Robust and Nonlinear Control</i> , 1999, 9, 599-615.	2.1	8
79	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
80	Event-triggered control via reset control systems framework. <i>IFAC-PapersOnLine</i> , 2016, 49, 170-175.	0.5	8
81	CONSERVATIVITY OF ELLIPSOIDAL STABILITY REGIONS ESTIMATES FOR INPUT SATURATED LINEAR SYSTEMS. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2002, 35, 61-66.	0.4	7
82	Anti-windup for NDI quadratic systems. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2010, 43, 1175-1180.	0.4	7
83	Anti-windup design for a class of multivariable nonlinear control systems: An LMI-based approach. , 2011, , .		7
84	On dynamic inversion with rate limitations. , 2012, , .		7
85	A hybrid observer with a continuous intersample injection in the presence of sporadic measurements. , 2015, , .		7
86	Observer-based event-triggered control for systems with slope-restricted nonlinearities. <i>International Journal of Robust and Nonlinear Control</i> , 2020, 30, 7409-7428.	2.1	7
87	Design of Saturating State Feedback With Sign-Indefinite Quadratic Forms. <i>IEEE Transactions on Automatic Control</i> , 2022, 67, 3507-3520.	3.6	7
88	(A, B)-stabilizability conditions with respect to certain Lyapunov functions. , 0, , .		6
89	Advanced Control Strategy for the Visual Servoing Scheme. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2000, 33, 201-206.	0.4	6
90	Dynamic anti-windup synthesis for state delayed systems: an LMI approach. , 2009, , .		6

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91	Multi-saturation anti-windup structure for satellite control. , 2010, , .		6
92	An event-triggered observer based control strategy for SISO systems. , 2014, , .		6
93	On sensor quantization in linear control systems: Krasovskii solutions meet semidefinite programming. IMA Journal of Mathematical Control and Information, 2020, 37, 395-417.	1.1	6
94	State observer with Round-Robin aperiodic sampled measurements with jitter. Automatica, 2021, 129, 109573.	3.0	6
95	Large-signal stability in high-order switching converters. , 2004, , .		6
96	H 2 Guaranteed Cost Control for Uncertain Systems Under State and Control Constraints. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 1997, 30, 341-346.	0.4	5
97	Local stabilization for linear discrete-time systems with bounded controls and norm-bounded time-varying uncertainty. International Journal of Robust and Nonlinear Control, 1998, 8, 831-844.	2.1	5
98	Algebraic approach to robust controller design: a geometric interpretation. , 1998, , .		5
99	Global asymptotic stabilization of systems satisfying two different sector conditions. Systems and Control Letters, 2011, 60, 570-578.	1.3	5
100	A linear consensus approach to quality-fair video delivery. , 2014, , .		5
101	LMI-based design of dynamic event-triggering mechanism for linear systems. , 2018, , .		5
102	Nonstandard use of anti-windup loop for systems with input backlash. IFAC Journal of Systems and Control, 2018, 6, 33-42.	1.1	5
103	Anti-windup strategy for linear systems with amplitude and dynamics restricted actuator. , 2003, , .		4
104	Anti-windup strategy with guaranteed stability for linear systems with amplitude and dynamics restricted actuator. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2004, 37, 1093-1098.	0.4	4
105	STABILITY AND PERFORMANCE ENHANCEMENT OF A FIGHTER AIRCRAFT FLIGHT CONTROL SYSTEM BY A NEW ANTI-WINDUP APPROACH. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2007, 40, 177-182.	0.4	4
106	Invariance of symmetric convex sets for discrete-time saturated systems. , 2011, , .		4
107	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
108	On the use of generalized holding devices in event-triggered observer-based controllers. Nonlinear Analysis: Hybrid Systems, 2021, 42, 101078.	2.1	4

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109	Pilot-Induced-Oscillations Alleviation Through Anti-windup Based Approach. Springer Optimization and Its Applications, 2016, , 401-423.	0.6	4
110	Stability analysis for systems with nested backlash and saturation operators. , 2007, , .		3
111	Stabilization of discrete-time switching systems including modal nonlinearities and saturating actuators. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2009, 42, 174-179.	0.4	3
112	Stabilization of quantized linear systems with saturations. , 2010, , .		3
113	Stability analysis for systems with saturation and backlash in the loop. , 2013, , .		3
114	Stability of Discrete-time Control Systems with Uniform and Logarithmic Quantizers. IFAC-PapersOnLine, 2016, 49, 132-137.	0.5	3
115	A consensus approach to PI gains tuning for qualityâ€fair video delivery. International Journal of Robust and Nonlinear Control, 2017, 27, 1547-1565.	2.1	3
116	Invariant set analysis for SISO discreteâ€time polynomial systems with dynamic quantizers. International Journal of Robust and Nonlinear Control, 2018, 28, 5495-5508.	2.1	3
117	Reference tracking controller design for anesthesia. IFAC-PapersOnLine, 2018, 51, 158-163.	0.5	3
118	Insights on Event-Triggered Control forâ€Linear Systems Subject to Norm-Bounded Uncertainty. Lecture Notes in Control and Information Sciences, 2018, , 181-196.	0.6	3
119	Discontinuous model recovery anti-windup for image based visual servoing. Automatica, 2019, 104, 41-47.	3.0	3
120	Emulation-Based Dynamic Output-Feedback Control of Saturating Discrete-Time LPV Systems. , 2021, 5, 1549-1554.		3
121	Lyapunov stability analysis of a massâ€spring system subject to friction. Systems and Control Letters, 2021, 150, 104910.	1.3	3
122	Image-based Visual Servo Control Design with Multi-Constraint Satisfaction. Lecture Notes in Control and Information Sciences, 2010, , 275-294.	0.6	3
123	Static Linear Anti-Windup Design With Sign-Indefinite Quadratic Forms. , 2022, 6, 3158-3163.		3
124	Synthesis of a global asymptotic stabilizing feedback law for a system satisfying two different sector conditions. , 2009, , .		2
125	Extended Model Recovery Anti-windup for Satellite Control1. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2010, 43, 205-210.	0.4	2
126	L2 stability for quantized linear systems with saturations. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2011, 44, 2338-2343.	0.4	2



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127	Static anti-windup design for discrete-time large-scale cross-directional saturated linear control systems. , 2015, , .		2
128	Invariant based control of induction and maintenance phases for anesthesia. IFAC-PapersOnLine, 2016, 49, 50-55.	0.5	2
129	Event-triggered Dynamic Output Feedback Controller for Discrete-time LPV Systems with Constraints. IFAC-PapersOnLine, 2021, 54, 213-218.	0.5	2
130	Co-Design of Dynamic Allocation Functions and Anti-Windup. , 2021, 5, 2198-2203.		2
131	Event-Triggered Control for Extended Plants of Discrete-Time Linear Systems. IFAC-PapersOnLine, 2020, 53, 2714-2719.	0.5	2
132	Analysis of Local Stability of Linear Systems with Saturating Controls: A Polyhedral Approach. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 1997, 30, 155-160.	0.4	1
133	Robust Stability of Uncertain Linear Delay Systems with Saturating Inputs : An LMIS Approach. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 1998, 31, 363-368.	0.4	1
134	Local stabilization of linear systems with position and rate bounded actuators. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 1999, 32, 3120-3125.	0.4	1
135	Less conservative time-delay independent LMI conditions for continuous-time polytopic systems. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2003, 36, 263-268.	0.4	1
136	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
137	Delay-dependent stability of reset control systems with anticipative reset conditions. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2012, 45, 219-224.	0.4	1
138	A Hybrid Model of Opinion Dynamics with Limited Confidence. IFAC-PapersOnLine, 2016, 49, 351-355.	0.5	1
139	Switched control strategy including time optimal control and robust dynamic output feedback for anaesthesia. IET Control Theory and Applications, 2019, 13, 960-969.	1.2	1
140	Energy-based design of dynamic allocation in the presence of saturating actuators. IFAC-PapersOnLine, 2021, 54, 304-309.	0.5	1
141	Stability of Load Balancing Control. Lecture Notes in Control and Information Sciences, 2007, , 77-95.	0.6	1
142	An Overview of Anti-windup Techniques. , 2011, , 267-281.		1
143	Preliminaries on Nonlinear Bounded Control for Time-Delay Systems. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 1998, 31, 81-86.	0.4	0
144	Globally Stabilizing Controllers Synthesis for Linear Systems with Saturating Inputs. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 1998, 31, 375-380.	0.4	0

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145	Stabilization of Linear Discrete Time Delay Systems with Additive Disturbance and Saturating Actuators. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2000, 33, 261-266.	0.4	0
146	Discussion on: "Stability and Tracking of Linear System Control in Presence of Magnitude and Rate Constraints". European Journal of Control, 2000, 6, 194-199.	1.6	0
147	Letter to the Editor on the Paper "Output Feedback Control with Input Saturations: LMI Design Approach" by G. Scorletti, J.-P. Folcher, and L. El Ghaoui. European Journal of Control, 2002, 8, 76-83.	1.6	0
148	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
149	Preliminaries on Output Tracking Problem for Systems with Saturating Controls Through Nonlinear Integrating Actions. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2003, 36, 73-78.	0.4	0
150	Call for Papers: "New Directions on Hybrid Control Systems". International Journal of Robust and Nonlinear Control, 2009, 19, 1293-1294.	2.1	0
151	Stability Analysis and Stabilization "Polytopic Representation Approach. , 2011, , 51-121.		0
152	Linear Systems Subject to Control Saturation "Problems and Modeling. , 2011, , 3-48.		0
153	Dynamic output-feedback controller design for continuous-time linear systems with actuator and sensor quantization. , 2015, , .		0
154	Controller design for analgesia with quantized pupil size variation output and saturating infusion rate. IFAC-PapersOnLine, 2016, 49, 748-753.	0.5	0
155	Control of Anesthesia Based on Singularly Perturbed Model. Lecture Notes in Control and Information Sciences, 2017, , 17-29.	0.6	0
156	Finite-Time LPV Analysis of a Vision Based Landing System with Anti-Windup Augmentation. IFAC-PapersOnLine, 2018, 51, 37-42.	0.5	0
157	Stability analysis of systems with nested saturation and backlash in the loop via nonstandard anti-windup compensation. , 2019, , .		0
158	Beam equation with saturating piezoelectric controls. IFAC-PapersOnLine, 2019, 52, 66-71.	0.5	0
159	Synthesis via a Parameterized ARE Approach or a Parameterized LMI Approach. , 2011, , 209-264.		0
160	Stability Analysis and Stabilization "Sector Nonlinearity Model Approach. , 2011, , 123-183.		0
161	Applications of Anti-windup Techniques. , 2011, , 311-352.		0
162	Anti-windup Compensator Synthesis. , 2011, , 283-309.		0

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163	Rank-one LMI approach to simultaneous stabilization of linear systems. , 1999, , .		0
164	Event-triggered control co-design for rational systems. IFAC-PapersOnLine, 2020, 53, 2720-2725.	0.5	0
165	Dead-zone observer-based control for anesthesia subject to noisy BIS measurement. IFAC-PapersOnLine, 2020, 53, 16191-16196.	0.5	0