

Sergio Galeani

List of Publications by Year in descending order

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100
papers

1,540
citations

471509

17
h-index

395702

33
g-index

101
all docs

101
docs citations

101
times ranked

838
citing authors

#	ARTICLE	IF	CITATIONS
1	A Tutorial on Modern Anti-windup Design. <i>European Journal of Control</i> , 2009, 15, 418-440.	2.6	225
2	Event-triggered transmission for linear control over communication channels. <i>Automatica</i> , 2014, 50, 490-498.	5.0	93
3	Active vibration control of an elastic plate using multiple piezoelectric sensors and actuators. <i>Simulation Modelling Practice and Theory</i> , 2003, 11, 403-419.	3.8	72
4	A magnitude and rate saturation model and its use in the solution of a static anti-windup problem. <i>Systems and Control Letters</i> , 2008, 57, 1-9.	2.3	66
5	Robust Trajectory Tracking for a Class of Hybrid Systems: An Internal Model Principle Approach. <i>IEEE Transactions on Automatic Control</i> , 2012, 57, 344-359.	5.7	57
6	Hybrid Output Regulation for Linear Systems With Periodic Jumps: Solvability Conditions, Structural Implications and Semi-Classical Solutions. <i>IEEE Transactions on Automatic Control</i> , 2016, 61, 2416-2431.	5.7	53
7	Constructive nonlinear anti-windup design for exponentially unstable linear plants. <i>Systems and Control Letters</i> , 2007, 56, 357-365.	2.3	51
8	Trajectory tracking for a particle in elliptical billiards. <i>International Journal of Control</i> , 2008, 81, 189-213.	1.9	49
9	Output regulation for a class of linear hybrid systems. Part 1: trajectory generation. , 2012, , .		45
10	Output regulation for a class of linear hybrid systems. Part 2: stabilization. , 2012, , .		42
11	On input allocation-based regulation for linear over-actuated systems. <i>Automatica</i> , 2015, 52, 346-354.	5.0	38
12	Necessary and sufficient conditions for output regulation in a class of hybrid linear systems. , 2013, , .		35
13	Nonlinear dynamic allocator for optimal input/output performance trade-off: Application to the JET tokamak shape controller. <i>Automatica</i> , 2011, 47, 981-987.	5.0	32
14	A linear quadratic approach to linear time invariant stabilization for a class of hybrid systems. , 2014, , .		28
15	Gain-scheduled, model-based anti-windup for LPV systems. <i>Automatica</i> , 2010, 46, 222-225.	5.0	26
16	Non-linear anti-windup for manual flight control. <i>International Journal of Control</i> , 2005, 78, 1111-1129.	1.9	25
17	Model recovery anti-windup for continuous-time rate and magnitude saturated linear plants. <i>Automatica</i> , 2012, 48, 1502-1513.	5.0	23
18	Robust Hybrid Output Regulation for Linear Systems With Periodic Jumps: Semiclassical Internal Model Design. <i>IEEE Transactions on Automatic Control</i> , 2017, 62, 6649-6656.	5.7	23

#	ARTICLE	IF	CITATIONS
19	A Family of Global Stabilizers for Quasi-Optimal Control of Planar Linear Saturated Systems. IEEE Transactions on Automatic Control, 2010, 55, 1175-1180.	5.7	22
20	On linear over-actuated regulation using input allocation. , 2011, , .		22
21	On a performance-robustness trade-off intrinsic to the natural anti-windup problem. Automatica, 2006, 42, 1849-1861.	5.0	21
22	Reduced order linear anti-windup augmentation for stable linear systems. International Journal of Systems Science, 2006, 37, 115-127.	5.5	21
23	On semiclassical solutions of hybrid regulator equations. , 2013, , .		21
24	Output invisible control allocation with steady-state input optimization for weakly redundant plants. , 2014, , .		21
25	Further results on static linear anti-windup design for control systems subject to magnitude and rate saturation. , 2006, , .		19
26	Trajectory tracking in linear hybrid systems: An internal model principle approach. , 2008, , .		19
27	A case study for hybrid regulation: Output tracking for a spinning and bouncing disk. , 2013, , .		17
28	Torque Setpoint Tracking for Parallel Hybrid Electric Vehicles Using Dynamic Input Allocation. IEEE Transactions on Control Systems Technology, 2014, 22, 2007-2015.	5.2	17
29	Lazy sensors for the scheduling of measurement samples transmission in linear closed loops over networks. , 2010, , .		16
30	Nonlinear scheduled control for linear systems subject to saturation with application to anti-windup control. , 2007, , .		15
31	Plasma Position and Elongation Regulation at FTU Using Dynamic Input Allocation. IEEE Transactions on Control Systems Technology, 2012, 20, 641-651.	5.2	15
32	A switched and scheduled design for model recovery anti-windup of linear plants. European Journal of Control, 2019, 46, 23-35.	2.6	14
33	A control theory approach on the design of a Marx generator network. , 2009, , .		11
34	On dynamic input allocation for fat plants subject to multi-sinusoidal exogenous inputs. , 2014, , .		11
35	Shape Control with the eXtreme Shape Controller During Plasma Current Ramp-Up and Ramp-Down at the JET Tokamak. Journal of Fusion Energy, 2014, 33, 149-157.	1.2	11
36	Strong stabilization with infinite multivariable gain margin through linear periodic control. International Journal of Control, 2004, 77, 441-460.	1.9	10

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37	Finite Time Stability Design via Feedback Linearization. , 0, , .		10
38	Nonlinear regulation for linear fat plants: The constant reference/disturbance case. , 2013, , .		10
39	Robustified Anti-Windup via Switching Adaptation. IEEE Transactions on Automatic Control, 2013, 58, 731-737.	5.7	10
40	Robust Antiwindup for Manual Flight Control of an Unstable Aircraft. Journal of Guidance, Control, and Dynamics, 2005, 28, 1275-1282.	2.8	8
41	Dynamic input allocation of torque references for a parallel HEV. , 2010, , .		8
42	Nonlinear output regulation for over-actuated linear systems. , 2013, , .		8
43	External Models for Output Regulation based on Moment Estimation from Input-Output Data. IFAC-PapersOnLine, 2017, 50, 7777-7782.	0.9	8
44	Semi-active damping and energy harvesting using an electromagnetic transducer. JVC/Journal of Vibration and Control, 2018, 24, 2542-2561.	2.6	8
45	Asymptotic Tracking for Nonminimum Phase Linear Systems via Steady-State Compensation. IEEE Transactions on Automatic Control, 2021, 66, 4176-4183.	5.7	8
46	<title>Semi-active control of a thin piezoactuated structure</title>. , 2000, , .		7
47	A parameterization of exponentially stabilizing controllers for linear mechanical systems subject to non-smooth impacts. Annual Reviews in Control, 2004, 28, 13-21.	7.9	7
48	Constructive nonlinear anti-windup design for exponentially unstable linear plants. , 2004, , .		7
49	Constructive design of output feedback weakened anti-windup compensators for linear systems with additive/multiplicative perturbations. , 0, , .		7
50	Data-Driven Dynamic Control Allocation for Uncertain Redundant Plants. , 2018, , .		7
51	Robust Hybrid Output Regulation for Linear Systems With Periodic Jumps: The Non-Semiclassical Case. , 2020, 4, 25-30.		7
52	Regional, semiglobal, global nonlinear anti-windup via switching design. , 2007, , .		6
53	A high gain observer for the estimation of velocity and coefficient of restitution in non-smooth mechanical systems. International Journal of Modelling, Identification and Control, 2008, 4, 44.	0.2	6
54	Model recovery anti-windup for plants with rate and magnitude saturation. , 2009, , .		6

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55	Hybrid Observer for multi-frequency signals. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2010, 43, 43-48.	0.4	6
56	Using dynamic input allocation for elongation control at FTU. Fusion Engineering and Design, 2010, 85, 443-446.	1.9	6
57	Francis equations vs invariant subspace algorithm for hybrid output regulation. , 2014, , .		6
58	Modal consensus, synchronization and formation control with distributed endogenous internal models. Automatica, 2018, 95, 163-171.	5.0	6
59	Trading output performance for input allocation: application to the JET tokamak shape controller. , 2009, , .		5
60	An almost Anti-Windup scheme for plants with magnitude, rate and curvature saturation. , 2010, , .		5
61	Performance assessment of a dynamic current allocator for the JET eXtreme Shape Controller. Fusion Engineering and Design, 2011, 86, 1057-1060.	1.9	5
62	On the tuning of a hybrid observer for multiple frequency estimation. , 2011, , .		5
63	A Software Tool for the Design of the Current Limit Avoidance System at the JET Tokamak. IEEE Transactions on Plasma Science, 2012, 40, 2056-2064.	1.3	5
64	Design of Marx generators as a structured eigenvalue assignment. Automatica, 2014, 50, 2709-2717.	5.0	5
65	Data-driven output regulation by external models of linear hybrid systems with periodic jumps. , 2016, , .		5
66	The linear quadratic regulator for periodic hybrid systems. Automatica, 2020, 113, 108772.	5.0	5
67	Adaptive hybrid observer of the plasma horizontal position at FTU. , 2014, , .		4
68	Optimal semi-active energy harvesting from a mechanical oscillator with variable electromechanical damping coefficient: Some preliminary properties and numerical results. , 2015, , .		4
69	Dynamic stabilising controllers for linear time-invariant systems and multirate control. IET Control Theory and Applications, 2004, 151, 739-744.	1.7	3
70	Switching adaptive robustified anti-windup *. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2010, 43, 1169-1174.	0.4	3
71	Results on plasma position and elongation regulation at FTU using dynamic input allocation. , 2010, , .		3
72	An adaptive hybrid robust regulator. , 2011, , .		3

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73	First experimental results with the Current Limit Avoidance System at the JET tokamak. Fusion Engineering and Design, 2013, 88, 400-407.	1.9	3
74	Shape control with the XSC during plasma current ramp-up and ramp-down at the JET tokamak. , 2013, , .		3
75	Hybrid output regulation for nonlinear systems: Steady-state vs receding horizon formulation. Nonlinear Analysis: Hybrid Systems, 2018, 29, 1-19.	3.5	3
76	Robust asymptotic tracking of periodic trajectories in elliptical billiards. , 2007, , .		2
77	An alternative solution to the weakened anti-windup problem for LFT perturbed plants. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2011, 44, 13420-13425.	0.4	2
78	Nonlinear observer design techniques with observability functions. , 2013, , .		2
79	Output invisible control allocation with asymptotic optimization for nonlinear systems in normal form. , 2017, , .		2
80	Asymptotic tracking for linear and nonlinear systems: a two-point boundary value formulation. IFAC-PapersOnLine, 2019, 52, 598-603.	0.9	2
81	Model based, gain-scheduled anti-windup control for LPV systems. , 2007, , .		1
82	Asymptotic tracking of periodic trajectories for a particle in an elliptical billiards. Proceedings of the American Control Conference, 2007, , .	0.0	1
83	Globally stabilizing quasi time-optimal control of planar saturated linear systems. , 2008, , .		1
84	Switching adaptive realization of a weakened anti-windup compensator. , 2010, , .		1
85	Experimental results on elongation control using dynamic input allocation at FTU. Fusion Engineering and Design, 2011, 86, 1014-1017.	1.9	1
86	On dynamic input allocation for set-point regulation of the JET tokamak plasma shape. , 2011, , .		1
87	An Extremum Seeking Algorithm for Message Batching in Total Order Protocols. , 2012, , .		1
88	Time optimal semiactive vibration damping of a mechanical oscillator with variable damping coefficient. , 2014, , .		1
89	Transient Optimization in Output Regulation via Feedforward Selection and Regulator State Initialization. IFAC-PapersOnLine, 2017, 50, 3069-3074.	0.9	1
90	Output Regulation of Hybrid Linear Systems: Solvability Conditions and Structural Implications. Lecture Notes in Control and Information Sciences, 2020, , 115-151.	1.0	1

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91	Frequency-domain analysis of linear systems with periodic jumps: Definition of hybrid transfer function, pole and zero. Automatica, 2020, 112, 108690.	5.0	1
92	Steady-state, harmonic response and moments of linear systems with periodic jumps. European Journal of Control, 2021, 57, 157-162.	2.6	1
93	Output tracking for a class of non-minimum phase nonlinear systems: A two-point boundary value problem formulation with a hybrid regulator. European Journal of Control, 2021, 58, 43-52.	2.6	1
94	Discussion on "Effectiveness of Multirate Input Control in Dead-beat Servomechanism" by H. Ito. European Journal of Control, 2002, 8, 341-342.	2.6	0
95	Regulation of 1DOF linear mechanical systems to a contact configuration for smooth or non-smooth impacts. , 0, , .		0
96	A multirate approach to input or output augmentation for sampled-data static output feedback. , 0, , .		0
97	ON THE USE OF BACKSTEPPING TO ACHIEVE FINITE TIME STABILITY. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2005, 38, 664-669.	0.4	0
98	Output Regulation Problems in Hybrid Systems. , 2021, , 1651-1660.		0
99	Discussion on: Computation of Kalman Decompositions of Periodic Systems. European Journal of Control, 2004, 10, 9-14.	2.6	0
100	Output Regulation Problems in Hybrid Systems. , 2020, , 1-10.		0