

Julio Hernan Braslavsky

List of Publications by Year in descending order

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72
papers

2,687
citations

346980

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h-index

286692

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73
all docs

73
docs citations

73
times ranked

1953
citing authors

#	ARTICLE	IF	CITATIONS
1	Lyapunov stability of grid-connected wind turbines with permanent magnet synchronous generator. European Journal of Control, 2022, 65, 100615.	1.6	6
2	Modelling and Control of Ensembles of Variable-Speed Air Conditioning Loads for Demand Response. IEEE Transactions on Smart Grid, 2020, 11, 4249-4260.	6.2	38
3	Analysis of Robust Feedback Linearisation Control for Wind Turbines based on Permanent Magnet Synchronous Generator. , 2019, , .		0
4	Voltage Stability in a Grid-Connected Inverter With Automatic Volt-Watt and Volt-VAR Functions. IEEE Transactions on Smart Grid, 2019, 10, 84-94.	6.2	33
5	Mapping the Effect of Ambient Temperature on the Power Demand of Populations of Air Conditioners. IEEE Transactions on Smart Grid, 2018, 9, 1540-1550.	6.2	51
6	Stability of Grid-Connected Permanent Magnet Synchronous Generator-Based Wind Turbines. , 2018, , .		4
7	An Analytical Model for Demand Response of Variable-Speed Air Conditioners. IFAC-PapersOnLine, 2018, 51, 426-431.	0.5	5
8	A Decentralised Adaptive Voltage Droop Control for Inverters in Power Distribution Networks. , 2018, , .		2
9	Ultimate boundedness and regions of attraction of frequency droop controlled microgrids with secondary control loops. Automatica, 2017, 81, 416-428.	3.0	11
10	Model Predictive Control of Distributed Air-Conditioning Loads to Compensate Fluctuations in Solar Power. IEEE Transactions on Smart Grid, 2017, 8, 3055-3065.	6.2	105
11	Hybrid model predictive control of a residential HVAC system with on-site thermal energy generation and storage. Applied Energy, 2017, 187, 465-479.	5.1	108
12	Analysis of voltage bounds in grid-connected inverters with automatic reactive power control under persistent load variations. , 2017, , .		2
13	Quantifying maximum controllable energy demand in ensembles of air conditioning loads. , 2017, , .		2
14	Non-local approximation of power flow equations with guaranteed error bounds. , 2017, , .		4
15	Model predictive control of distributed air-conditioning loads for mitigation of solar variability. , 2016, , .		1
16	Ultimate bound minimisation by state feedback in discrete-time switched linear systems under arbitrary switching. Nonlinear Analysis: Hybrid Systems, 2016, 21, 84-102.	2.1	4
17	Eigenstructure Assignment for Componentwise Ultimate Bound Minimization in Discrete-Time Linear Systems. IEEE Transactions on Automatic Control, 2016, 61, 3669-3675.	3.6	2
18	Ultimate bounds and regions of attraction for two-inverter microgrids with primary and secondary frequency control loops. , 2015, , .		1

#	ARTICLE	IF	CITATIONS
19	Modelling the aggregate demand response of a population of air conditioners to changes in ambient temperature. , 2015, , .		1
20	A stability vulnerability in the interaction between Volt-VAR and Volt-Watt response functions for smart inverters. , 2015, , .		10
21	Sizing and grid impact of PV battery systems - a comparative analysis for Australia and Germany. , 2015, , .		16
22	Optimal distributed energy resources and the cost of reduced greenhouse gas emissions in a large retail shopping centre. Applied Energy, 2015, 155, 120-130.	5.1	48
23	Ultimate boundedness of droop controlled microgrids with secondary loops. , 2014, , .		2
24	Model-Based Estimation of Energy Savings in Load Control Events for Thermostatically Controlled Loads. IEEE Transactions on Smart Grid, 2014, 5, 1410-1420.	6.2	48
25	Bayesian parameter estimation for direct load control of populations of air conditioners. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2014, 47, 9924-9929.	0.4	5
26	Towards load control of populations of air conditioners with guaranteed comfort margins. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2014, 47, 9930-9935.	0.4	3
27	On componentwise ultimate bound minimisation for switched linear systems via closed-loop Lie-algebraic solvability. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2014, 47, 4085-4090.	0.4	1
28	DESIGN AND APPLICATION OF A MODEL-BASED PID CONTROLLER FOR AGGREGATIONS OF THERMOSTATICALLY CONTROLLED LOADS1. International Journal of Power and Energy Systems, 2014, 34, .	0.2	0
29	Sufficient Conditions for Generic Feedback Stabilizability of Switching Systems via Lie-Algebraic Solvability. IEEE Transactions on Automatic Control, 2013, 58, 814-820.	3.6	16
30	An analytical characterisation of cold-load pickup oscillations in thermostatically controlled loads. , 2013, , .		10
31	On eigenvalue-eigenvector assignment for componentwise ultimate bound minimisation in MIMO LTI discrete-time systems. , 2013, , .		4
32	Model-based feedback control of distributed air-conditioning loads for fast demand-side ancillary services. , 2013, , .		29
33	A sensitivity analysis of the dynamics of a population of thermostatically-controlled loads. , 2013, , .		14
34	Eigenvalue assignment for componentwise ultimate bound minimisation in LTI discrete-time systems. , 2013, , .		0
35	Load management: Model-based control of aggregate power for populations of thermostatically controlled loads. Energy Conversion and Management, 2012, 55, 36-48.	4.4	220
36	Feedback Stabilization of Switching Discrete-Time Systems via Lie-Algebraic Techniques. IEEE Transactions on Automatic Control, 2011, 56, 1129-1135.	3.6	19

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37	Minimum Variance Control Over a Gaussian Communication Channel. IEEE Transactions on Automatic Control, 2011, 56, 1751-1765.	3.6	51
38	On Lie-algebraic-solvability-based feedback stabilization of systems with controller-driven sampling. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2011, 44, 8731-8736.	0.4	2
39	Reducing energy use and operational cost of air conditioning systems with multi-objective evolutionary algorithms. , 2010, , .		5
40	Feedback stabilisation of switched systems via iterative approximate eigenvector assignment. , 2010, , .		9
41	String Instability in Classes of Linear Time Invariant Formation Control With Limited Communication Range. IEEE Transactions on Automatic Control, 2010, 55, 1519-1530.	3.6	231
42	On feedback stabilisation of switched discrete-time systems via Lie-algebraic techniques. , 2009, , .		8
43	An errors-in-variables method for non-stationary data with application to mineral exploration. Automatica, 2009, 45, 2971-2976.	3.0	7
44	Feedback Stabilization Over a First Order Moving Average Gaussian Noise Channel. IEEE Transactions on Automatic Control, 2009, 54, 163-167.	3.6	41
45	Fundamental limitations in control over a communication channel. Automatica, 2008, 44, 3147-3151.	3.0	78
46	Channel signal-to-noise ratio constrained feedback control: performance and robustness. IET Control Theory and Applications, 2008, 2, 595-605.	1.2	23
47	Minimum variance control over a Gaussian communication channel. , 2008, , .		14
48	Input disturbance rejection in channel signal-to-noise ratio constrained feedback control. , 2008, , .		7
49	A Simulation Study on Model Predictive Control and Extremum Seeking Control for Heap Bioleaching Processes. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2008, 41, 9368-9373.	0.4	4
50	Stabilization with disturbance attenuation over a Gaussian channel. , 2007, , .		31
51	Errors-in-variables problems in transient electromagnetic mineral exploration. , 2007, , .		7
52	A model-based feedback control strategy for heap bioleaching processes. , 2007, , .		3
53	Output Feedback Sensitivity Functions Under Signal to Noise Ratio Constraint. Proceedings of the American Control Conference, 2007, , .	0.0	5
54	Feedback Stabilization Over Signal-to-Noise Ratio Constrained Channels. IEEE Transactions on Automatic Control, 2007, 52, 1391-1403.	3.6	343

#	ARTICLE	IF	CITATIONS
55	Level Crossing Sampling in Feedback Stabilization under Data-Rate Constraints. , 2006, , .		130
56	EFFECTS OF TIME DELAY ON FEEDBACK STABILISATION OVER SIGNAL-TO-NOISE RATIO CONSTRAINED CHANNELS. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2005, 38, 219-224.	0.4	7
57	Undershoot and settling time tradeoffs for nonminimum phase systems. IEEE Transactions on Automatic Control, 2003, 48, 1389-1393.	3.6	33
58	Cheap control performance of a class of nonright-invertible nonlinear systems. IEEE Transactions on Automatic Control, 2002, 47, 1314-1319.	3.6	16
59	A RIPPLE MINIMIZATION STRATEGY FOR DIRECT TORQUE AND FLUX CONTROL OF INDUCTION MOTORS USING SLIDING MODES. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2002, 35, 7-12.	0.4	2
60	Non-stationary stochastic embedding for transfer function estimation. Automatica, 2002, 38, 47-62.	3.0	28
61	Robustification of backstepping against input unmodeled dynamics. IEEE Transactions on Automatic Control, 2000, 45, 1358-1363.	3.6	31
62	Limiting performance of optimal linear filters. Automatica, 1999, 35, 189-199.	3.0	42
63	Feedback limitations in nonlinear systems: from Bode integrals to cheap control. IEEE Transactions on Automatic Control, 1999, 44, 829-833.	3.6	134
64	L_2 -induced norms and frequency gains of sampled-data sensitivity operators. IEEE Transactions on Automatic Control, 1998, 43, 252-258.	3.6	12
65	Near-optimal cheap control of nonlinear systems. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 1998, 31, 107-112.	0.4	6
66	Robustness of zero shifting via generalized sampled-data hold functions. IEEE Transactions on Automatic Control, 1997, 42, 1681-1692.	3.6	34
67	On a key sampling formula relating the Laplace and transforms. Systems and Control Letters, 1997, 29, 181-190.	1.3	12
68	Fundamental Limitations in Filtering and Control. Communications and Control Engineering, 1997, , .	1.0	389
69	Global and semi-global stabilizability in certain cascade nonlinear systems. IEEE Transactions on Automatic Control, 1996, 41, 876-881.	3.6	22
70	Inherent design limitations for linear sampled-data feedback systems. International Journal of Control, 1995, 61, 1387-1421.	1.2	61
71	Control over a Bandwidth Limited Signal to Noise Ratio constrained Communication Channel. , 0, , .		17
72	Control over Signal-to-Noise Ratio Constrained Channels: Stabilization and Performance. , 0, , .		17