Alexandre Sanfelice Bazanella

List of Publications by Year
in descending order

74 papers	1,413 citations	430442 18 h-index	395343 33 g-index
77 all docs	77 docs citations	77 times ranked	706 citing authors

#	Article	IF	Citations
1	Single-Phase Uninterruptible Power Supply Control: A Model-Free Proportional-Multiresonant Method. IEEE Transactions on Industrial Electronics, 2022, 69, 2967-2975.	5.2	7
2	Necessary and Sufficient Conditions for the Identifiability of Isolated Loops. , 2022, 6, 2276-2280.		4
3	Improving the Performance of Data-Driven Control by Discarding Data and Using Data Least Squares. Journal of Control, Automation and Electrical Systems, 2022, 33, 780-792.	1.2	3
4	Identifiability of Dynamic Networks from Structure. IFAC-PapersOnLine, 2021, 54, 55-60.	0.5	4
5	Optimal Allocation of Excitation and Measurement for Identification of Dynamic Networks. IFAC-PapersOnLine, 2021, 54, 43-48.	0.5	4
6	A Generalized Forced Oscillation Method for Tuning Proportional-Resonant Controllers. IEEE Transactions on Control Systems Technology, 2020, 28, 1108-1115.	3.2	10
7	One-shot data-driven controller certification. ISA Transactions, 2020, 99, 361-373.	3.1	12
8	Network Topology Impact on the Identification of Dynamic Network Models with Application to Autonomous Vehicle Platooning. IFAC-PapersOnLine, 2020, 53, 1031-1036.	0.5	1
9	The Constrained Total Least Squares Solution for Virtual Reference Feedback Tuning. IFAC-PapersOnLine, 2020, 53, 3983-3988.	0.5	1
10	On the Choice of an Appropriate Reference Model for Control of Multivariable Plants. IEEE Transactions on Control Systems Technology, 2019, 27, 1937-1949.	3.2	12
11	Identifiability of Dynamical Networks With Partial Node Measurements. IEEE Transactions on Automatic Control, 2019, 64, 2240-2253.	3.6	51
12	Data-Driven Control Design by Prediction Error Identification for Multivariable Systems. Journal of Control, Automation and Electrical Systems, 2019, 30, 465-478.	1.2	12
13	Identifiability of Dynamical Networks With Singular Noise Spectra. IEEE Transactions on Automatic Control, 2019, 64, 2473-2479.	3.6	11
14	Extraction of informative subsets from routine operating data for use in data-driven control. , 2019, , .		3
15	Data-Driven LQR Control Design. , 2019, 3, 180-185.		50
16	The generalized forced oscillation method for tuning PID controllers. ISA Transactions, 2019, 87, 68-87.	3.1	11
17	Multivariable Virtual Reference Feedback Tuning for Non-Minimum Phase Plants. , 2018, 2, 121-126.		13
18	Tuning PID controllers from sampled-data relay feedback experiments. IFAC-PapersOnLine, 2018, 51, 125-130.	0.5	2

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19	PID Tuning Based on Forced Oscillation for Plants Without Ultimate Frequency. IFAC-PapersOnLine, 2018, 51, 131-136.	0.5	5
20	A practical method for the consistent identification of a module in a dynamical network. IFAC-PapersOnLine, 2018, 51, 862-867.	0.5	32
21	A New Method for PID Tuning Including Plants Without Ultimate Frequency. IEEE Transactions on Control Systems Technology, 2017, 25, 637-644.	3.2	41
22	Cost function shaping of the output error criterion. Automatica, 2017, 76, 53-60.	3.0	7
23	Data-driven model reference control design by prediction error identification. Journal of the Franklin Institute, 2017, 354, 2628-2647.	1.9	48
24	On the identifiability of dynamical networks * *Work supported by the Program Science Without Borders, CNPq - Conselho Nacional de Desenvolvimento CientÃfico e Tecnologico, Brazil, and by the Belgian Programme on Interuniversity Attraction Poles, initiated by the Belgian Federal Science Policy Office.. IFAC-PapersOnLine, 2017, 50, 10580-10585.	0.5	15
25	Identifiability of dynamical networks: Which nodes need be measured?. , 2017, , .		36
26	Iterative feedback tuning for cascade systems. , 2016, , .		8
27	Evaluation of polynomial models to predict methane production in batch mode bioreactors. , 2016, , .		0
28	Limit Cycles in Sampled-Data Relay Feedback Systems. Journal of Control, Automation and Electrical Systems, 2016, 27, 237-249.	1.2	10
29	Identification of piecewise affine state-space models via expectation maximization. , 2016, , .		1
30	Multivariable VRFT: an approach for systems with non-minimum phase transmission zeros. , 2016, , .		6
31	Identifiability and excitation of linearly parametrized rational systems. Automatica, 2016, 63, 38-46.	3.0	11
32	Identification in dynamic networks: Identifiability and experiment design issues. , 2015, , .		20
33	Tuning Rules for Proportional Resonant Controllers. IEEE Transactions on Control Systems Technology, 2015, 23, 2010-2017.	3.2	61
34	Identifiability and excitation of a class of rational systems. , 2014, , .		5
35	Identifiability Analysis and Prediction Error Identification of Anaerobic Batch Bioreactors. Journal of Control, Automation and Electrical Systems, 2014, 25, 438-447.	1.2	5
36	Tuning Nonlinear Controllers with the Virtual Reference Approach. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2014, 47, 10269-10274.	0.4	6

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37	Input design as a tool to improve the convergence of PEM. Automatica, 2013, 49, 3282-3291.	3.0	12
38	Identifiability and excitation of polynomial systems. , 2013, , .		9
39	Optimizing the convergence of data-based controller tuning. Proceedings of the Institution of Mechanical Engineers Part I: Journal of Systems and Control Engineering, 2012, 226, 563-574.	0.7	6
40	Data-Driven Controller Design. Communications and Control Engineering, 2012, , .	1.0	62
41	Model Reference Control Design by Prediction Error Identification*. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2012, 45, 1478-1483.	0.4	4
42	On the convergence of the Prediction Error Method to its global minimum*. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2012, 45, 698-703.	0.4	4
43	Robust convergence of the steepest descent method for data-based control. International Journal of Systems Science, 2012, 43, 1969-1975.	3.7	11
44	Necessary and sufficient conditions for uniqueness of the minimum in Prediction Error Identification. Automatica, 2012, 48, 1621-1630.	3.0	21
45	Iterative Optimization. Communications and Control Engineering, 2012, , 69-88.	1.0	1
46	Convergence to the Globally Optimal Controller. Communications and Control Engineering, 2012, , 89-117.	1.0	0
47	One-Shot Optimizationâ€"The VRFT Method. Communications and Control Engineering, 2012, , 27-67.	1.0	0
48	On the global convergence of identification of output error models. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2011, 44, 9058-9063.	0.4	2
49	Virtual Reference Feedback Tuning for non-minimum phase plants. Automatica, 2011, 47, 1778-1784.	3.0	88
50	Data-based controller tuning: Improving the convergence rate. , 2010, , .		5
51	System unbalance effect on faulted distribution systems: A numerical study. , 2010, , .		1
52	Closed-Loop Identification of MIMO Systems: A New Look at Identifiability and Experiment Design. European Journal of Control, 2010, 16, 228-239.	1.6	41
53	Virtual Reference Feedback Tuning for non minimum phase plants. , 2009, , .		15
54	Tuning of Multivariable Decentralized Controllers Through the Ultimate-Point Method. IEEE Transactions on Control Systems Technology, 2009, 17, 1270-1281.	3.2	19

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55	Identification and the Information Matrix: How to Get Just Sufficiently Rich?. IEEE Transactions on Automatic Control, 2009, 54, 2828-2840.	3.6	109
56	Optimizing the convergence of data-based controller tuning. , 2009, , .		11
57	Iterative minimization of H_2 control performance criteria. Automatica, 2008, 44, 2549-2559.	3.0	51
58	Informative data: How to get just sufficiently rich?. , 2008, , .		26
59	Closed-loop identification of MIMO systems: a new look at identifiability and experiment design. , 2007, , .		4
60	Identifiability and Informative Experiments in Open and Closed-Loop Identification. , 2007, , 151-170.		6
61	AUTO-TUNING OF PID CONTROLLERS FOR MIMO PROCESSES BY RELAY FEEDBACK. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2006, 39, 451-456.	0.4	4
62	Tuning of multivariable PID controllers through the Ultimate Point Method. , 2006, , .		1
63	Stability analysis and control of a class of differential-algebraic nonlinear systems. International Journal of Robust and Nonlinear Control, 2004, 14, 1301-1326.	2.1	55
64	On parameter estimation for excitation control of synchronous generators. International Journal of Adaptive Control and Signal Processing, 2004, 18, 443-455.	2.3	1
65	Towards sharper Lyapunov functions for power systems. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2004, 37, 1027-1032.	0.4	0
66	An energy-shaping approach to the design of excitation control of synchronous generators. Automatica, 2003, 39, 111-119.	3.0	136
67	Robustness of global asymptotic stability in indirect field-oriented control of induction motors. IEEE Transactions on Automatic Control, 2003, 48, 1218-1222.	3.6	20
68	ELECTROMECHANICAL OSCILLATIONS IN POWER SYSTEMS. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2002, 35, 389-394.	0.4	1
69	Coordinated design of damping controllers for robustness of power systems stability. International Journal of Electrical Power and Energy Systems, 2001, 23, 69-79.	3.3	16
70	Robust tuning of the speed loop in indirect field oriented control of induction motors. Automatica, 2001, 37, 1811-1818.	3.0	32
71	Robustness margins for indirect field-oriented control of induction motors. IEEE Transactions on Automatic Control, 2000, 45, 1226-1231.	3.6	39
72	On the control of dynamic systems with unknown operating point. International Journal of Control, 2000, 73, 600-605.	1.2	24

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73	A dynamic extension for L/sub g/V controllers. IEEE Transactions on Automatic Control, 1999, 44, 588-592.	3.6	42
74	Robust Observer Design for a Class of Nonlinear Systems. , 0, , .		6