

Roberto Sanchis-Llopis

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/8801546/publications.pdf>

Version: 2024-02-01

52
papers

414
citations

933264

10
h-index

794469

19
g-index

52
all docs

52
docs citations

52
times ranked

266
citing authors

#	ARTICLE	IF	CITATIONS
1	Output prediction under scarce data operation: control applications. <i>Automatica</i> , 1999, 35, 1671-1681.	3.0	51
2	Recursive identification under scarce measurements " convergence analysis. <i>Automatica</i> , 2002, 38, 535-544.	3.0	43
3	PI and PID auto-tuning procedure based on simplified single parameter optimization. <i>Journal of Process Control</i> , 2011, 21, 840-851.	1.7	42
4	Tuning of PID controllers based on simplified single parameter optimisation. <i>International Journal of Control</i> , 2010, 83, 1785-1798.	1.2	34
5	A new method for tuning PI controllers with symmetric send-on-delta sampling strategy. <i>ISA Transactions</i> , 2016, 64, 161-173.	3.1	22
6	State estimator for multisensor systems with irregular sampling and time-varying delays. <i>International Journal of Systems Science</i> , 2012, 43, 1441-1453.	3.7	21
7	Estimation in multisensor networked systems with scarce measurements and time varying delays. <i>Systems and Control Letters</i> , 2012, 61, 555-562.	1.3	18
8	Design of robust output predictors under scarce measurements with time-varying delays. <i>Automatica</i> , 2007, 43, 281-289.	3.0	17
9	LK stability analysis of predictor-based controllers for discrete-time systems with time-varying actuator delay. <i>Systems and Control Letters</i> , 2013, 62, 764-769.	1.3	13
10	H \hat{z} Observer Design for a Class of Nonlinear Discrete Systems. <i>European Journal of Control</i> , 2009, 15, 157-165.	1.6	12
11	Tuning and robustness analysis of event-based PID controllers under different event-generation strategies. <i>International Journal of Control</i> , 2018, 91, 1567-1587.	1.2	10
12	Tuning PID controllers with symmetric send-on-delta sampling strategy. <i>Journal of the Franklin Institute</i> , 2020, 357, 832-862.	1.9	10
13	A simple rule for tuning Event-Based PID controllers with Symmetric Send-On-Delta sampling strategy. , 2014, , .		9
14	Performance Tradeoffs for Networked Jump Observer-Based Fault Diagnosis. <i>IEEE Transactions on Signal Processing</i> , 2015, 63, 2692-2703.	3.2	9
15	Co-design of jump estimators and transmission policies for wireless multi-hop networks with fading channels. <i>Automatica</i> , 2017, 81, 68-74.	3.0	9
16	A simple procedure to design PID controllers in the frequency domain. , 2009, , .		7
17	Networked gain-scheduled fault diagnosis under control input dropouts without data delivery acknowledgment. <i>International Journal of Robust and Nonlinear Control</i> , 2016, 26, 737-758.	2.1	7
18	Jump state estimation with multiple sensors with packet dropping and delaying channels. <i>International Journal of Systems Science</i> , 2016, 47, 982-993.	3.7	7

#	ARTICLE	IF	CITATIONS
19	A new approach to averaging level control. <i>Control Engineering Practice</i> , 2011, 19, 1037-1043.	3.2	6
20	Experimental study of event based PID controllers with different sampling strategies. Application to brushless DC motor networked control system. , 2015, , .		6
21	Control of a ceramic tiles cooling process based on water spraying. <i>Journal of Process Control</i> , 2009, 19, 1073-1081.	1.7	5
22	Event-based PI controller with adaptive thresholds. , 2012, , .		5
23	New robustness measure for a kind of event-based PID. <i>IFAC-PapersOnLine</i> , 2018, 51, 781-786.	0.5	5
24	Inferential networked control with accessibility constraints in both the sensor and actuator channels. <i>International Journal of Systems Science</i> , 2014, 45, 1180-1195.	3.7	4
25	Synthesis of nonlinear controller for wind turbines stability when providing grid support. <i>International Journal of Robust and Nonlinear Control</i> , 2014, 24, 2261-2284.	2.1	4
26	A new method for experimental tuning of PI controllers based on the step response. <i>ISA Transactions</i> , 2022, 128, 329-342.	3.1	4
27	Closed loop analysis of control systems under scarce measurements. , 0, , .		3
28	Modeling and control of ceramic tile glazing using dimensional analysis. , 2009, , .		3
29	A polynomial approach for observer design in networked control systems with unknown packet dropout rate. , 2013, , .		3
30	Performance vs complexity trade-offs for Markovian networked jump estimators. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2014, 47, 7412-7417.	0.4	3
31	Economic model predictive control of wastewater treatment plants based on BSM1 using linear prediction models. , 2019, , .		3
32	MetodologÃa para la EvaluaciÃn de Algoritmos de Auto-ajuste de Controladores PID. <i>RIAI - Revista Iberoamericana De Automatica E Informatica Industrial</i> , 2011, 8, 112-117.	0.6	3
33	Fault Detection in the Blade and Pitch System of a Wind Turbine with H_2 PI Observers. <i>Journal of Physics: Conference Series</i> , 2015, 659, 012033.	0.3	2
34	Performance-based design of PI observers for fault diagnosis in LTI systems under Gaussian noises. , 2016, , .		2
35	Evaluation of closed loop control applications using different event management strategies under IEC 61499. , 2016, , .		2
36	Co-design of H_∞ jump observers for event-based measurements over networks. <i>International Journal of Systems Science</i> , 2016, 47, 283-299.	3.7	2

#	ARTICLE	IF	CITATIONS
37	A PID tuning approach to find the optimal compromise among robustness, performance and control effort. Implementation in a free software tool. International Journal of Control, 0, , 1-27.	1.2	2
38	Design of Low Cost Virtual Sensors. , 2006, , .		1
39	Adaptive extended Kalman filter for recursive identification under missing data. , 2010, , .		1
40	A software tool for the design and simulation of PID with event based sampling. , 2017, , .		1
41	Modelling and Optimization of the Operation of a Multiple Tank Water Pumping System. , 2017, , .		1
42	Ammonium Sensor Fault Detection in Wastewater Treatment Plants. , 2020, , .		1
43	Performance, robustness and noise amplification trade-offs in Disturbance Observer Control design. European Journal of Control, 2022, 65, 100630.	1.6	1
44	Inferential networked control with variable accessibility constraints. , 2009, , .		0
45	State observer design for networked control systems with unknown disturbances. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2011, 44, 8805-8810.	0.4	0
46	Virtual torque control in wind generation with doubly fed induction generator. , 2012, , .		0
47	Codesign strategy of inferential controllers for wireless sensor networks. , 2012, , .		0
48	Experimental test of power saving strategies in a networked based control over a wireless platform. , 2013, , .		0
49	A gain-scheduled observer under transmissions without delivery acknowledgment. Journal of Physics: Conference Series, 2015, 659, 012020.	0.3	0
50	Analysis of a simple rule for tuning SSOD based PIDs. , 2016, , .		0
51	Observer-based controllers with data dropout rate adaptation. International Journal of Robust and Nonlinear Control, 2017, 27, 3904-3920.	2.1	0
52	Modelling and Minimum Cost Control of Multiple Tank Pumping Systems. Lecture Notes in Electrical Engineering, 2020, , 252-271.	0.3	0