Ignacio PeÃ±arrocha-AlÃ³s

List of Publications by Year
in descending order

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76	271	1163117 8	1058476 14
papers	citations	h-index	g-index

76	76	76	234
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	A new approach to optimize the energy efficiency of CO2 transcritical refrigeration plants. Applied Thermal Engineering, 2014, 67, 137-146.	6.0	43
2	State estimator for multisensor systems with irregular sampling and time-varying delays. International Journal of Systems Science, 2012, 43, 1441-1453.	5.5	21
3	Estimation in multisensor networked systems with scarce measurements and time varying delays. Systems and Control Letters, 2012, 61, 555-562.	2.3	18
4	Design of robust output predictors under scarce measurements with time-varying delays. Automatica, 2007, 43, 281-289.	5.0	17
5	Hâˆž Observer Design for a Class of Nonlinear Discrete Systems. European Journal of Control, 2009, 15, 157-165.	2.6	12
6	A simple rule for tuning Event-Based PID controllers with Symmetric Send-On-Delta sampling strategy. , 2014, , .		9
7	Performance Tradeoffs for Networked Jump Observer-Based Fault Diagnosis. IEEE Transactions on Signal Processing, 2015, 63, 2692-2703.	5.3	9
8	Co-design of jump estimators and transmission policies for wireless multi-hop networks with fading channels. Automatica, 2017, 81, 68-74.	5.0	9
9	Multiobjective performance-based designs in fault estimation and isolation for discrete-time systems and its application to wind turbines. International Journal of Systems Science, 2019, 50, 1252-1274.	5.5	9
10	Robust estimation and diagnosis of wind turbine pitch misalignments at a wind farm level. Renewable Energy, 2020, 146, 1746-1765.	8.9	8
11	Model-based tool condition prognosis using power consumption and scarce surface roughness measurements. Journal of Manufacturing Systems, 2021, 61, 311-325.	13.9	8
12	Networked gainâ€scheduled fault diagnosis under control input dropouts without data delivery acknowledgment. International Journal of Robust and Nonlinear Control, 2016, 26, 737-758.	3.7	7
13	Jump state estimation with multiple sensors with packet dropping and delaying channels. International Journal of Systems Science, 2016, 47, 982-993.	5.5	7
14	Estimation of Nonstationary Process Variance in Multistage Manufacturing Processes Using a Model-Based Observer. IEEE Transactions on Automation Science and Engineering, 2019, 16, 741-754.	5.2	7
15	Control of a ceramic tiles cooling process based on water spraying. Journal of Process Control, 2009, 19, 1073-1081.	3.3	5
16	Event-based PI controller with adaptive thresholds. , 2012, , .		5
17	Multivariable phase-locked loop free strategy for power control of grid-connected voltage source converters. Electric Power Systems Research, 2022, 210, 108084.	3.6	5
18	Inferential networked control with accessibility constraints in both the sensor and actuator channels. International Journal of Systems Science, 2014, 45, 1180-1195.	5.5	4

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19	Synthesis of nonlinear controller for wind turbines stability when providing grid support. International Journal of Robust and Nonlinear Control, 2014, 24, 2261-2284.	3.7	4
20	Optimal inspection/actuator placement for robust dimensional compensation in multistage manufacturing processes. , 2017, , 31-50.		4
21	Tradeâ€offs on fault estimation via proportional multipleâ€integral and multipleâ€resonant observers for discreteâ€time systems. IET Control Theory and Applications, 2019, 13, 659-671.	2.1	4
22	A simple procedure for fault detectors design in SISO systems. Control Engineering Practice, 2020, 96, 104302.	5.5	4
23	A new method for experimental tuning of PI controllers based on the step response. ISA Transactions, 2022, 128, 329-342.	5.7	4
24	Cooperative Project-based Learning for Machine Design in the Industrial Engineering Program: Methodologies and Experiences. , 0, , .		4
25	Closed loop analysis of control systems under scarce measurements. , 0, , .		3
26	Modeling and control of ceramic tile glazing using dimensional analysis. , 2009, , .		3
27	A polynomial approach for observer design in networked control systems with unknown packet dropout rate. , 2013, , .		3
28	Performance vs complexity trade-offs for Markovian networked jump estimators. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2014, 47, 7412-7417.	0.4	3
29	Markovian jump system approach for the estimation and adaptive diagnosis of decreased power generation in wind farms. IET Control Theory and Applications, 2019, 13, 3006-3018.	2.1	3
30	Economic model predictive control of wastewater treatment plants based on BSM1 using linear prediction models. , 2019, , .		3
31	Virtual Sensors Under Delayed Scarce Measurements. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2004, 37, 85-90.	0.4	2
32	Fault Detection in the Blade and Pitch System of a Wind Turbine withH₂PI Observers. Journal of Physics: Conference Series, 2015, 659, 012033.	0.4	2
33	Performance-based design of PI observers for fault diagnosis in LTI systems under Gaussian noises. , 2016, , .		2
34	Co-design ofH_{â^ž}jump observers for event-based measurements over networks. International Journal of Systems Science, 2016, 47, 283-299.	5.5	2
35	Actuator Fault Tolerant Control Proposal for PI Controlled SISO Systems. IFAC-PapersOnLine, 2018, 51, 680-687.	0.9	2
36	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.	1.9	2

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37	A Sequential Inspection Procedure for Fault Detection in Multistage Manufacturing Processes. Sensors, 2021, 21, 7524.	3.8	2
38	Initializing Parameter Estimation Algorithms Under Scarce Measurements. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2003, 36, 1897-1902.	0.4	1
39	OUTPUT PREDICTION UNDER RANDOM MEASUREMENTS. AN LMI APPROACH. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2005, 38, 303-308.	0.4	1
40	Design of Low Cost Virtual Sensors. , 2006, , .		1
41	Fault detection and estimation in systems with scarce measurement. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2009, 42, 113-118.	0.4	1
42	Adaptive extended Kalman filter for recursive identification under missing data. , 2010, , .		1
43	Power analysis in wind generation with doubly fed induction generator with polynomial optimization tools. , 2012, , .		1
44	Banks of estimators and decision mechanisms for pitch actuator and sensor FE in wind turbines. IFAC-PapersOnLine, 2018, 51, 1141-1148.	0.9	1
45	Model-based observer proposal for surface roughness monitoring. Procedia Manufacturing, 2019, 41, 618-625.	1.9	1
46	Modelling and Optimization of the Operation of a Multiple Tank Water Pumping System. , 2017, , .		1
47	State Estimation and Send on Delta Strategy Codesign for Networked Control Systems. , 2012, , .		1
48	Ammonium Sensor Fault Detection in Wastewater Treatment Plants. , 2020, , .		1
49	Performance, robustness and noise amplification trade-offs in Disturbance Observer Control design. European Journal of Control, 2022, 65, 100630.	2.6	1
50	Inferential networked control with variable accessibility constraints. , 2009, , .		0
51	Control system and fault detection algorithm for a restored teeth fatigue assay machine. , 2009, , .		0
52	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
53	Guaranteed Performance Level Iterative Control with Input Constraints: an LMI Approach. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2011, 44, 3451-3456.	0.4	0
54	Virtual torque control in wind generation with doubly fed induction generator. , 2012, , .		0

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55	Codesign strategy of inferential controllers for wireless sensor networks. , 2012, , .		0
56	Experimental test of power saving strategies in a networked based control over a wireless platform. , 2013, , .		0
57	A jump filter for uncertain dynamic systems with dropouts. , 2014, , .		0
58	A gain-scheduled observer under transmissions without delivery acknowledgment. Journal of Physics: Conference Series, 2015, 659, 012020.	0.4	0
59	Observerâ€based controllers with data dropout rate adaptation. International Journal of Robust and Nonlinear Control, 2017, 27, 3904-3920.	3.7	0
60	Comparison of leakage estimation strategies in a real industrial pipe network * *This work has been supported by grant FPU14/01592 from MECD and by projects P11B2015-42 from Universitat Jaume I de CastellÃ³ and MINECO project number TEC2015-69155-R. IFAC-PapersOnLine, 2017, 50, 13550-13555.	0.9	0
61	Alternative control approach for the offshore grid of wind power plants. , 2019, , .		0
62	Modelling and Minimum Cost Control of Multiple Tank Pumping Systems. Lecture Notes in Electrical Engineering, 2020, , 252-271.	0.4	0
63	Extension of the Stream-of-Variation Model for General-Purpose Workholding Devices: Vices and Three-Jaw Chucks. IEEE Transactions on Automation Science and Engineering, 2022, 19, 2216-2228.	5.2	0
64	Problemes d'electrÃ²nica analÃ²gica. , 0, , .		0
65	PROMOTING SELF-STUDY IN CONTROL SYSTEMS THROUGH AUTO-ASSESSMENT TOOLS. INTED Proceedings, 2016, , .	0.0	0
66	MOODLE QUESTIONNAIRES AS A SELF-ASSESSMENT TOOL FOR MEETING THE CHALLENGES OF DIVERSITY IN STUDENTSâ€™ BACKGROUND KNOWLEDGE. , 2018, , .		0
67	Modelado y optimizaciÃ³n de la operaciÃ³n de un sistema de bombeo de mÃºltiples depÃ³sitos. , 0, , .		0
68	EstimaciÃ³n de fugas en un sistema industrial mediante modelado por seÃ±ales aditivas. , 0, , .		0
69	Alternativas para el control de la red elÃ©ctrica aislada en parques eÃ³licos marinos. , 0, , .		0
70	Testing minimum cost strategies of pumping systems with scheduled electric tariffs in a lab scale plant. IFAC-PapersOnLine, 2020, 53, 11583-11588.	0.9	0
71	Robust local controllers design for the AC grid voltage control of an offshore wind farm. IFAC-PapersOnLine, 2020, 53, 12751-12756.	0.9	0
72	ADAPTATIONS IN ENGINEERING TEACHING DUE TO COVID-19: A TRANSITION TOWARDS BLENDED LEARNING. , 2021, , .		0

#	Article	IF	Citations
73	IMPLEMENTATION OF A METHODOLOGY BASED ON AUTOMATIC ASSESSMENT OF PARAMETERIZED PROBLEMS FOR A MORE EFFICIENT LEARNING. , 2020, , .		0
74	Predictores robustos de estructura fija. , 0, , .		0
75	DiseÃ±o basado en prestaciones de observadores PI para el diagnÃ³stico de fallos en sistemas lineales con perturbaciones gaussianas. , 0, , .		0
76	Experiencias de evaluaciÃ³n automatizada en identificaciÃ³n y ajuste de PID. , 0, , .		0