

# Pedro Albertos

## List of Publications by Year in descending order

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159  
papers

2,443  
citations

172457

29  
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265206

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163  
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163  
docs citations

163  
times ranked

1563  
citing authors

#	ARTICLE	IF	CITATIONS
1	Mixed Event-Triggered Output Regulation for Networked Switched Systems With Unstable Switching Dynamics Under Long-Duration DoS Attacks. IEEE Transactions on Cybernetics, 2023, 53, 7150-7161.	9.5	2
2	Trajectory Control in Non-Minimum Phase Plants. , 2021, , .		0
3	Output regulation for networked switched systems with alternate event-triggered control under transmission delays and packet losses. Automatica, 2021, 131, 109716.	5.0	32
4	Neuro-Fuzzy System for Compensating Slow Disturbances in Adaptive Mold Level Control. Metals, 2021, 11, 56.	2.3	6
5	Plant model frequency scale decomposition for identification and control design. , 2021, , .		0
6	Robust predictive extended state observer for a class of nonlinear systems with time-varying input delay. International Journal of Control, 2020, 93, 217-225.	1.9	18
7	Linear Algebra Based Controllers. , 2020, , .		9
8	Discrete Time Control of a Mobile Robot. , 2020, , 33-53.		0
9	Linear Algebra-Based Controller Implementation Issues. , 2020, , 117-127.		0
10	Application to a Mobile Robot. , 2020, , 23-32.		0
11	Control de trayectorias basado en Álgebra lineal. RIAI - Revista Iberoamericana De Automatica E Informatica Industrial, 2020, 17, 344.	1.0	6
12	Some issues about conditional stability in LTI plants. IFAC Journal of Systems and Control, 2020, 13, 100107.	1.7	0
13	Tracking Control Design in Nonlinear Multivariable Systems: Robotic Applications. Mathematical Problems in Engineering, 2019, 2019, 1-15.	1.1	9
14	Event based distributed kalman filter for limited resource multirobot cooperative localization. Asian Journal of Control, 2019, 21, 1531-1546.	3.0	10
15	Robust stabilization of time-varying delay systems with predictor-observer based controller. IFAC-PapersOnLine, 2019, 52, 213-218.	0.9	5
16	Extended state observer-based control for systems with locally Lipschitz uncertainties: LMI-based stability conditions. Systems and Control Letters, 2019, 134, 104526.	2.3	11
17	Networked Control of Unstable Resonant Systems. , 2019, , .		1
18	New Predictor and 2DOF Control Scheme for Industrial Processes With Long Time Delay. IEEE Transactions on Industrial Electronics, 2018, 65, 4247-4256.	7.9	43

#	ARTICLE	IF	CITATIONS
19	Rejection of mismatched disturbances for systems with input delay via a predictive extended state observer. International Journal of Robust and Nonlinear Control, 2018, 28, 2457-2467.	3.7	28
20	Enhanced extended state observer-based control for systems with mismatched uncertainties and disturbances. ISA Transactions, 2018, 73, 1-10.	5.7	54
21	Conversion of SISO processes with multiple time-delays to single time-delay processes. Journal of Process Control, 2018, 65, 84-90.	3.3	6
22	A generalized smith predictor for unstable time-delay SISO systems. ISA Transactions, 2018, 72, 197-204.	5.7	65
23	Robust nonlinear adaptive mould level control for steel continuous casting. IFAC-PapersOnLine, 2018, 51, 164-170.	0.9	6
24	Dead-Time Compensator for State-delay Stable Systems. IFAC-PapersOnLine, 2018, 51, 672-677.	0.9	2
25	Two-Degree-of-Freedom PID Tuning Based on an Uncertainty and Disturbance Estimator *. , 2018, , .		3
26	Coordinated control strategy for a rotating flywheel pendulum. , 2018, , .		0
27	Feed Furnace Temperature Control Based on the Distributed Deviations. Industrial & Engineering Chemistry Research, 2017, 56, 6035-6042.	3.7	2
28	Compensator design based on inverted decoupling for non-square processes. IET Control Theory and Applications, 2017, 11, 996-1005.	2.1	7
29	Predictor-Based Control of a Class of Time-Delay Systems and Its Application to Quadrotors. IEEE Transactions on Industrial Electronics, 2017, 64, 459-469.	7.9	110
30	Robust controller design for input-delayed systems using predictive feedback and an uncertainty estimator. International Journal of Robust and Nonlinear Control, 2017, 27, 1826-1840.	3.7	16
31	Robust Design of the Uncertainty and Disturbance Estimator. IFAC-PapersOnLine, 2017, 50, 8262-8267.	0.9	7
32	Partial control of systems in series. , 2017, , .		0
33	A predictive extended state observer for a class of nonlinear systems with input delay subject to external disturbances. , 2017, , .		5
34	Corrigendum to "Stabilizing Parametric Region of Multiloop PID Controllers for Multivariable Systems Based on Equivalent Transfer Function". Mathematical Problems in Engineering, 2017, 2017, 1-1.	1.1	0
35	Dead-time compensator for multi time-delay systems: The scalar case. , 2017, , .		2
36	Stabilizing Parametric Region of Multiloop PID Controllers for Multivariable Systems Based on Equivalent Transfer Function. Mathematical Problems in Engineering, 2016, 2016, 1-7.	1.1	3

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37	A quaternion-based and active disturbance rejection attitude control for quadrotor. , 2016, , .		6
38	Some contributions to the design of dead-time compensators. , 2016, , .		2
39	Robust Control of Quadrotors Based on an Uncertainty and Disturbance Estimator. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2016, 138, .	1.6	52
40	Analytical design of a generalised predictor-based control scheme for low-order integrating and unstable systems with long time delay. IET Control Theory and Applications, 2016, 10, 884-893.	2.1	13
41	Enhanced disturbance rejection for a predictor-based control of LTI systems with input delay. Automatica, 2016, 72, 205-208.	5.0	60
42	Control of disturbed systems with measurement delays: Application to quadrotor vehicles. , 2015, , .		0
43	Linear interpolation based controller design for trajectory tracking under uncertainties: Application to mobile robots. Control Engineering Practice, 2015, 45, 123-132.	5.5	26
44	Control of input/output delayed and disturbed unstable plants. , 2015, , .		2
45	Disturbance rejection: A central issue in process control. , 2015, , .		4
46	Stability analysis of linear systems with time-varying state and measurement delays. , 2014, , .		0
47	A switched swing-up and stabilization control strategy for the rotating flywheel pendulum. , 2014, , .		1
48	Disturbance rejection in process control. , 2014, , .		5
49	Event-Based Localization in Ackermann Steering Limited Resource Mobile Robots. IEEE/ASME Transactions on Mechatronics, 2014, 19, 1171-1182.	5.8	34
50	Linear control of the flywheel inverted pendulum. ISA Transactions, 2014, 53, 1396-1403.	5.7	32
51	Robust tuning of a generalized predictor-based controller for integrating and unstable systems with long time-delay. Journal of Process Control, 2013, 23, 1205-1216.	3.3	57
52	On the linear control of underactuated systems: The flywheel inverted pendulum. , 2013, , .		20
53	Control kernel based adaptive control implementation. ACM SIGBED Review, 2013, 10, 24-28.	1.8	1
54	Multi Sensor Fusion Framework for Indoor-Outdoor Localization of Limited Resource Mobile Robots. Sensors, 2013, 13, 14133-14160.	3.8	35

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55	Robustness analysis of discrete predictor-based controllers for input-delay systems. International Journal of Systems Science, 2013, 44, 232-239.	5.5	23
56	Control of Multi Delayed Plants: Recycling CSTR. , 2012, , .		3
57	Predictorâ€“observer-based control of systems with multiple input/output delays. Journal of Process Control, 2012, 22, 1350-1357.	3.3	29
58	Robustness of a discrete-time predictor-based controller for time-varying measurement delay. Control Engineering Practice, 2012, 20, 102-110.	5.5	40
59	Predictor-based stabilization of discrete time-varying input-delay systems. Automatica, 2012, 48, 454-457.	5.0	38
60	Estimation in multisensor networked systems with scarce measurements and time varying delays. Systems and Control Letters, 2012, 61, 555-562.	2.3	18
61	Optimal control of unstable input/output timeâ€“delayed systems. Optimal Control Applications and Methods, 2012, 33, 445-460.	2.1	2
62	A Transfer-Function Approach to Dual-Rate Controller Design for Unstable and Non-Minimum-Phase Plants. IEEE Transactions on Control Systems Technology, 2011, 19, 1186-1194.	5.2	13
63	Design and Implementation of Kalman Filters applied to Lego NXT based Robots. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2011, 44, 9830-9835.	0.4	5
64	Development of a test-bed to implement and validate real-time control strategies for aerial vehicles*. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2011, 44, 7660-7665.	0.4	2
65	Neural networks in virtual reference tuning. Engineering Applications of Artificial Intelligence, 2011, 24, 983-995.	8.1	28
66	A Non-Uniform Predictor-Observer for a Networked Control System. International Journal of Control, Automation and Systems, 2011, 9, 1194-1202.	2.7	16
67	Non-uniform sampled-data control of MIMO systems. Annual Reviews in Control, 2011, 35, 65-76.	7.9	20
68	Sliding mode speed auto-regulation technique for robotic tracking. Robotics and Autonomous Systems, 2011, 59, 519-529.	5.1	22
69	Perspectives of Multivariable Fuzzy Control. , 2011, , 283-314.		0
70	Robustness of a discrete-time predictor-based controller for time-varying measurement delay. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2010, 43, 367-372.	0.4	14
71	Dead-time-compensator for unstable MIMO systems with multiple time delays. Journal of Process Control, 2010, 20, 877-884.	3.3	34
72	Time invariant control of MIMO systems under random transient failures. , 2010, , .		0

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73	Decoupling MIMO systems with multiple input/output time delays. , 2010, , .		1
74	Smith Predictor-Based Control Schemes for Dead-Time Unstable Cascade Processes. Industrial & Engineering Chemistry Research, 2010, 49, 11471-11481.	3.7	29
75	Feedback and Control for Everyone. , 2010, , .		35
76	A proposal for dual-rate controller design for unstable plants. , 2010, , .		3
77	Switching algorithm for fast robotic tracking under joint speed constraints. , 2010, , .		1
78	Implementation of a bug algorithm in the e-puck from a hybrid control viewpoint. , 2010, , .		3
79	Control Co-design: Algorithms and Their Implementation. Lecture Notes in Computer Science, 2010, , 19-40.	1.3	0
80	Control and society. , 2009, , .		19
81	Robust control design for long time-delay systems. Journal of Process Control, 2009, 19, 1640-1648.	3.3	80
82	Platform for the development of mechatronic practical works based on LEGO Mindstorms NXT robots. , 2009, , .		3
83	H $\hat{a}$ Observer Design for a Class of Nonlinear Discrete Systems. European Journal of Control, 2009, 15, 157-165.	2.6	12
84	A predictor-observer for a Networked Control System with time-varying delays and non-uniform sampling. , 2009, , .		2
85	A new dead-time compensator to control stable and integrating processes with long dead-time. Automatica, 2008, 44, 1062-1071.	5.0	51
86	Interactive tool for analysis of time-delay systems with dead-time compensators. Control Engineering Practice, 2008, 16, 824-835.	5.5	39
87	Tuning of a PID controlled gyro by using the bifurcation theory. Systems and Control Letters, 2008, 57, 10-17.	2.3	17
88	PID Control with Fuzzy Adaptation of a Metallurgical Furnace. , 2008, , 321-332.		0
89	Middleware for Control Kernel Implementation in Embedded Control Systems. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2008, 41, 8475-8480.	0.4	1
90	Nonisothermal Stirred-Tank Reactor with Irreversible Exothermic Reaction A $\hat{a}$ B: 2. Nonlinear Phenomena. , 2007, , 243-279.		7

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91	ESSENTIAL CONTROL IN EMBEDDED CONTROL SYSTEMS. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2007, 40, 186-191.	0.4	4
92	Dual-Rate Control Ripple Detection by an Approximate Frequency Response Methodology. , 2007, , .		4
93	Design of robust output predictors under scarce measurements with time-varying delays. Automatica, 2007, 43, 281-289.	5.0	17
94	Nonisothermal Stirred-Tank Reactor with Irreversible Exothermic Reaction $A \rightarrow B$ : 1. Modeling and Local Control. , 2007, , 3-32.		5
95	Lights and shadows of the Intelligent control. , 2007, , .		0
96	Simple Real-time Attitude Stabilization of a Quad-rotor Aircraft With Bounded Signals. , 2006, , .		34
97	Design of Low Cost Virtual Sensors. , 2006, , .		1
98	Robustness with respect to delay uncertainties of a predictor-observer based discrete-time controller. , 2006, , .		16
99	CONTROL KERNEL: A KEY CONCEPT IN EMBEDDED CONTROL SYSTEMS. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2006, 39, 330-335.	0.4	6
100	Control of unstable non-minimum-phase delayed systems. Journal of Process Control, 2006, 16, 1099-1111.	3.3	60
101	Phase-conditionally stable systems. Systems and Control Letters, 2006, 55, 803-808.	2.3	12
102	Implementation of algebraic controllers for non-conventional sampled-data systems. Real-Time Systems, 2006, 35, 59-89.	1.3	12
103	Algebraic Design of Multi-rate Control Systems for Environments with Limited Random Delays. Industrial Electronics Society (IECON ), Annual Conference of IEEE, 2006, , .	0.0	2
104	Schedulability Issues in Complex Embedded Control Systems. , 2006, , .		5
105	OUTPUT PREDICTION UNDER RANDOM MEASUREMENTS. AN LMI APPROACH. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2005, 38, 303-308.	0.4	1
106	EMBEDDED CONTROL SYSTEMS: SOME ISSUES AND SOLUTIONS. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2005, 38, 203-208.	0.4	8
107	A STRAIGHTFORWARD PROPOSAL FOR LOW-COST DEVELOPMENT OF VIRTUAL AND REMOTE CONTROL LABORATORIES. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2005, 38, 13-18.	0.4	0
108	Relevance of actions and measurements in control performances. Australian Journal of Electrical and Electronics Engineering, 2005, 2, 159-166.	1.2	1

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109	Nonlinear Control of a Small Four-Rotor Rotorcraft. , 2005, , 147-177.		0
110	Virtual and remote control laboratory development. IEEE Control Systems, 2005, 25, 35-39.	0.8	71
111	Model-based multirate controllers design. IEEE Transactions on Control Systems Technology, 2005, 13, 988-997.	5.2	67
112	Self-oscillating and chaotic behaviour of a PI-controlled CSTR with control valve saturation. Journal of Process Control, 2004, 14, 51-59.	3.3	37
113	Virtual Sensors Under Delayed Scarce Measurements. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2004, 37, 85-90.	0.4	2
114	State Feedback Control with Integrity. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2004, 37, 211-216.	0.4	1
115	Initializing Parameter Estimation Algorithms Under Scarce Measurements. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2003, 36, 1897-1902.	0.4	1
116	FUZZY CONTROLLERS WITH NON-CONVENTIONAL (SCARCE) MEASUREMENTS. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2002, 35, 217-222.	0.4	0
117	ALGEBRAIC DESIGN OF MULTIRATE CONTROLLERS. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2002, 35, 85-90.	0.4	2
118	Virtual sensors for control applications. Annual Reviews in Control, 2002, 26, 101-112.	7.9	47
119	Recursive identification under scarce measurements " convergence analysis. Automatica, 2002, 38, 535-544.	5.0	43
120	Periodic Optimal Control of Multirate Sampled Data Systems. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2001, 34, 195-200.	0.4	3
121	Inference error minimisation: fuzzy modelling of ambiguous functions. Fuzzy Sets and Systems, 2001, 121, 95-111.	2.7	21
122	PID Control. Control Engineering Practice, 2001, 9, 1159-1161.	5.5	22
123	Integrated Design and Implementation of Digital Controllers. Lecture Notes in Computer Science, 2001, , 385-392.	1.3	7
124	Fuzzy PD Control of an Unstable System. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2000, 33, 217-222.	0.4	0
125	Intelligent Use of Virtual Sensors in Control Applications. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2000, 33, 213-225.	0.4	0
126	Trade-off Between Time Delays and Control Effort. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2000, 33, 287-291.	0.4	1



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127	Recursive Identification under Scarce Measurements. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2000, 33, 745-750.	0.4	2
128	Fuzzy logic based look-up table controller with generalization. , 2000, , .		4
129	Time delay limitations in control implementation. , 1999, , .		9
130	Some issues on AI techniques in RT process control. Annual Reviews in Control, 1999, 23, 125-137.	7.9	3
131	Real-time control of non-uniformly sampled systems. Control Engineering Practice, 1999, 7, 445-458.	5.5	48
132	Output prediction under scarce data operation: control applications. Automatica, 1999, 35, 1671-1681.	5.0	51
133	PD control of robot manipulators with joint flexibility, actuators dynamics and friction. Automatica, 1999, 35, 1697-1700.	5.0	26
134	Receding horizon control of non-uniformly sampled data systems. , 1999, , .		4
135	LQ optimal control for multirate sampled data systems. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 1999, 32, 2876-2881.	0.4	6
136	Reducing Delays in RT Control: The Control Action Interval. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 1999, 32, 8527-8532.	0.4	22
137	Some issues on AI techniques in RT process control. Annual Reviews in Control, 1999, 23, 125-137.	7.9	1
138	Fuzzy systems evaluation: The inference error approach. IEEE Transactions on Systems, Man, and Cybernetics, 1998, 28, 268-275.	5.0	11
139	Trends in Low Cost Automation. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 1998, 31, 1-8.	0.4	1
140	On Hybrid Control of Nonlinear Systems Under Slow Sampling: Application to Induction Machines. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 1998, 31, 303-308.	0.4	7
141	Multirate Implementation of a Quasi-Sliding Mode Control. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 1998, 31, 245-250.	0.4	0
142	Scarce Data Operating Conditions: Output Predictors. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 1997, 30, 459-464.	0.4	1
143	Real-Time Control of Unconventionally Sampled Data Systems. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 1997, 30, 1-13.	0.4	2
144	Scarce Data Operating Conditions: Process Model Identification. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 1997, 30, 453-458.	0.4	9

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145	Disturbance rejection. , 1997, , 129-146.		2
146	Dual-rate adaptive control. Automatica, 1996, 32, 1027-1030.	5.0	59
147	Fault-Detection via Parameter Estimation in Continuous-Time Systems with Random Sampling (Scarce) Tj ETQq1 1 0.784314 rgBT /Ov 335-340.	0.4	3
148	FUZZY LOGIC MODELING OF SOCIAL BEHAVIOR. Cybernetics and Systems, 1994, 25, 343-358.	2.5	8
149	Sampled data passive systems. Lecture Notes in Computer Science, 1994, , 118-130.	1.3	0
150	Input-Output model for unconventional sampled-data control systems. , 1991, , 614-625.		4
151	Block multirate input-output model for sampled-data control systems. IEEE Transactions on Automatic Control, 1990, 35, 1085-1088.	5.7	89
152	On generalized predictive control: Two alternative formulations. Automatica, 1989, 25, 753-755.	5.0	42
153	Perspectives of fuzzy control: lights and shadows. , 0, , .		1
154	Fuzzy controllers design: a methodology. , 0, , .		8
155	The inference error minimisation approach to fuzzy inference and knowledge analysis. , 0, , .		2
156	Multirate controllers design by rate decomposition. , 0, , .		7
157	RT control scheduling to reduce control performance degrading. , 0, , .		34
158	Online learning control of a gantry crane. , 0, , .		1
159	Closed loop analysis of control systems under scarce measurements. , 0, , .		3