Juan I Yuz

List of Publications by Year
in descending order

76 papers	2,000 citations	566801 15 h-index	264894 42 g-index
80 all docs	80 docs citations	80 times ranked	1426 citing authors

#	Article	IF	Citations
1	Model Predictive Control of an Inverter With Output LC Filter for UPS Applications. IEEE Transactions on Industrial Electronics, 2009, 56, 1875-1883.	5.2	552
2	Predictive Torque Control of Induction Machines Based on State-Space Models. IEEE Transactions on Industrial Electronics, 2009, 56, 1916-1924.	5.2	383
3	Predictive Speed Control of a Two-Mass System Driven by a Permanent Magnet Synchronous Motor. IEEE Transactions on Industrial Electronics, 2012, 59, 2840-2848.	5.2	124
4	On sampled-data models for nonlinear systems. IEEE Transactions on Automatic Control, 2005, 50, 1477-1489.	3.6	117
5	Sampled-Data Models for Linear and Nonlinear Systems. Communications and Control Engineering, 2014, , .	1.0	72
6	Performance limitations for linear feedback systems in the presence of plant uncertainty. IEEE Transactions on Automatic Control, 2003, 48, 1312-1319.	3.6	66
7	Sampling and Sampled-Data Models: The Interface Between the Continuous World and Digital Algorithms. IEEE Control Systems, 2013, 33, 34-53.	1.0	64
8	System identification using quantized data. , 2007, , .		55
9	On the equivalence of time and frequency domain maximum likelihood estimation. Automatica, 2010, 46, 260-270.	3.0	55
10	On sampled-data models for model predictive control. , 2010, , .		43
11	Robust identification of process models from plant data. Journal of Process Control, 2008, 18, 810-820.	1.7	36
12	Sampling and sampled-data models. , 2010, , .		35
13	Dual timeâ€“frequency domain system identification. Automatica, 2012, 48, 3031-3041.	3.0	33
14	Identification of continuous-time state-space models from non-uniform fast-sampled data. IET Control Theory and Applications, 2011, 5, 842-855.	1.2	32
15	Identification of sparse FIR systems using a general quantisation scheme. International Journal of Control, 2014, 87, 874-886.	1.2	27
16	Tube-based nonlinear model predictive control for autonomous skid-steer mobile robots with tireâ€“terrain interactions. Control Engineering Practice, 2020, 101, 104451.	3.2	26
17	Comments on â€œPredictive Torque Control of Induction Machines Based on State-Space Modelsâ€. IEEE Transactions on Industrial Electronics, 2014, 61, 1635-1638.	5.2	22
18	Loop Performance Assessment for Decentralized Control of Stable Linear Systems. European Journal of Control, 2003, 9, 118-132.	1.6	17

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19	Control of constrained linear systems using fast sampling rates. Systems and Control Letters, 2005, 54, 981-990.	1.3	17
20	Frequency domain identification of MIMO state space models using the EM algorithm. , 2007, , .		13
21	From classical to state-feedback-based controllers. IEEE Control Systems, 2003, 23, 58-67.	1.0	12
22	SAMPLED-DATA MODELS FOR STOCHASTIC NONLINEAR SYSTEMS. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2006, 39, 434-439.	0.4	12
23	Editorial: Continuous-time model identification. IET Control Theory and Applications, 2011, 5, 839-841.	1.2	11
24	A comparison of discrete-time models for model predictive control of induction motor drives. , 2015, , .		11
25	Modified Euler-Frobenius Polynomials With Application to Sampled Data Modelling. IEEE Transactions on Automatic Control, 2017, 62, 3972-3985.	3.6	11
26	Sampling Zeros of Discrete Models for Fractional Order Systems. IEEE Transactions on Automatic Control, 2013, 58, 2383-2388.	3.6	10
27	Vector Measures of Accuracy for Sampled Data Models of Nonlinear Systems. IEEE Transactions on Automatic Control, 2013, 58, 224-230.	3.6	10
28	An EM-based identification algorithm for a class of hybrid systems with application to power electronics. International Journal of Control, 2014, 87, 1339-1351.	1.2	10
29	Identification of continuous-time models with slowly time-varying parameters. Control Engineering Practice, 2019, 93, 104165.	3.2	9
30	About Dissipative and Pseudo Port-Hamiltonian Formulations of Irreversible Newtonian Compressible Flows. IFAC-PapersOnLine, 2020, 53, 11521-11526.	0.5	9
31	Continuous-time system identification of the steering dynamics of a ship on a river. International Journal of Control, 2014, 87, 1387-1405.	1.2	7
32	ROBUSTNESS ISSUES IN CONTINUOUS-TIME SYSTEM IDENTIFICATION FROM SAMPLED DATA. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2005, 38, 237-242.	0.4	6
33	Relative Error Issues in Sampled Data Models. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2008, 41, 5047-5052.	0.4	6
34	Variance or spectral density in sampled data filtering?. Journal of Global Optimization, 2012, 52, 335-351.	1.1	6
35	A port-Hamiltonian Fluid-Structure Interaction Model for the Vocal folds âž âžThis work was supported by CONICYT-PFCHA/2017-21170472, and AC3E CONICYT-Basal Project FB-0008.. IFAC-PapersOnLine, 2018, 51, 62-67.	0.5	6
36	On the relationship between spline interpolation, sampling zeros and numerical integration in sampled-data models. Systems and Control Letters, 2019, 128, 1-8.	1.3	6

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37	Sampled Data Models for Nonlinear Stochastic Systems: Truncation Errors and Sampling Zero Dynamics. IEEE Transactions on Automatic Control, 2016, 61, 103-115.	3.6	5
38	Sensorless control of a SynRM for the whole speed range based on a nonlinear observability analysis. , 2017, , .		5
39	Mixed domain analysis of MIMO dynamic interactions. , 2007, , .		4
40	Insights into the zero dynamics of sampled-data models for linear and nonlinear stochastic systems. , 2007, , .		4
41	State and Resistance Estimation in Sensorless FOC Induction Motor Drive Using a Reduced Order Unscented Kalman Filter. , 2012, , .		4
42	Fluid-Structure Port-Hamiltonian Model for Incompressible Flows in Tubes with Time Varying Geometries. Mathematical and Computer Modelling of Dynamical Systems, 2020, 26, 409-433.	1.4	4
43	On port-Hamiltonian formulations of 3-dimensional compressible Newtonian fluids. Physics of Fluids, 2021, 33, .	1.6	4
44	Robust Identification of Continuous-time Systems from Sampled Data. , 2008, , 67-89.		3
45	On the relationship between splines, sampling zeros and numerical integration in sampled-data models for linear systems. , 2008, , .		3
46	Discussion on: â€œIdentification of ARX and ARARX Models in the Presence of Input and Output Noisesâ€• European Journal of Control, 2010, 16, 256-257.	1.6	3
47	Vocal fold modeling through the port-Hamiltonian systems approach. , 2015, , .		3
48	Revisiting the EKF concept for low speed sensorless control of cage induction motors. , 2016, , .		3
49	Una medida de interacciÃ³n multivariable en el dominio del tiempo y de la frecuencia. RIAI - Revista Iberoamericana De Automatica E Informatica Industrial, 2009, 6, 17-25.	0.6	2
50	Continuous-time system identification of a ship on a river. , 2013, , .		2
51	Orthonormal basis functions applied to optimal control with pole location constraints. , 2013, , .		2
52	B-spline Generalized Hold for Nonlinear Sampled-Data Systems. , 2019, , .		2
53	Towards a Simple Sampled-Data Control Law for Stably Invertible Linear Systems. IFAC-PapersOnLine, 2020, 53, 4582-4587.	0.5	2
54	Kalman Filter Implementation of Subglottal Impedance-Based Inverse Filtering to Estimate Glottal Airflow during Phonation. Applied Sciences (Switzerland), 2022, 12, 401.	1.3	2

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55	Identification of state-space systems using a dual time-frequency domain approach. , 2010, , .		1
56	Optimal control synthesis with prescribed closed loop poles. , 2011, , .		1
57	EM-based identification of sparse FIR systems having quantized data1. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2012, 45, 553-558.	0.4	1
58	EM-based ML channel estimation in OFDM systems with phase distortion using RB-EKF. , 2014, , .		1
59	Orthonormal basis functions applied to optimal control design with closed-loop pole location constraints. International Journal of Control, 2014, 87, 2644-2656.	1.2	1
60	Application of point processes estimation to a Metro system. , 2016, , .		1
61	Frequency domain interpretation of the Smith predictor. , 2018, , .		1
62	A Scalable port-Hamiltonian Model for Incompressible Fluids in Irregular Geometries. IFAC-PapersOnLine, 2019, 52, 102-107.	0.5	1
63	Approximate Nonlinear Discrete-Time Models Based on B-Spline Functions. IEEE Access, 2020, 8, 143366-143374.	2.6	1
64	Parametric Identification of a Linear Time Invariant Model for a Subglottal System. IFAC-PapersOnLine, 2021, 54, 577-582.	0.5	1
65	Energy-based fluidâ€“structure model of the vocal folds. IMA Journal of Mathematical Control and Information, 2021, 38, 466-492.	1.1	1
66	Singular structure convergence for linear quadratic problems. , 2003, , .		0
67	A numerical study of time and frequency domain maximum likelihood estimation. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2009, 42, 1133-1138.	0.4	0
68	A filtering approach for model selection. , 2011, , .		0
69	Connections between incremental and continuous-time EM algorithm for state space identification*. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2012, 45, 834-839.	0.4	0
70	Recursive parameter and state estimation for a mining industry process. , 2012, , .		0
71	Model validation methods for errors-in-variables estimation. , 2013, , .		0
72	Port-Hamiltonian modeling of the vocal folds using bond-graph representation. , 2021, , .		0

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73	Applications of Approximate Sampled-Data Models in Estimation and Control. Communications and Control Engineering, 2014, , 117-135.	1.0	0
74	Robustness. Communications and Control Engineering, 2014, , 73-77.	1.0	0
75	Approximate Models for Nonlinear Deterministic Systems. Communications and Control Engineering, 2014, , 101-115.	1.0	0
76	Point-Process Modeling and Divergence Measures Applied to the Characterization of Passenger Flow Patterns of a Metro System. IEEE Access, 2022, 10, 26529-26540.	2.6	0