

Juan I Yuz

List of Publications by Year in descending order

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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	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
2	Kalman Filter Implementation of Subglottal Impedance-Based Inverse Filtering to Estimate Glottal Airflow during Phonation. Applied Sciences (Switzerland), 2022, 12, 401.	1.3	2
3	Parametric Identification of a Linear Time Invariant Model for a Subglottal System. IFAC-PapersOnLine, 2021, 54, 577-582.	0.5	1
4	Port-Hamiltonian modeling of the vocal folds using bond-graph representation. , 2021, , .		0
5	Energy-based fluid-structure model of the vocal folds. IMA Journal of Mathematical Control and Information, 2021, 38, 466-492.	1.1	1
6	On port-Hamiltonian formulations of 3-dimensional compressible Newtonian fluids. Physics of Fluids, 2021, 33, .	1.6	4
7	Approximate Nonlinear Discrete-Time Models Based on B-Spline Functions. IEEE Access, 2020, 8, 143366-143374.	2.6	1
8	Tube-based nonlinear model predictive control for autonomous skid-steer mobile robots with tire-terrain interactions. Control Engineering Practice, 2020, 101, 104451.	3.2	26
9	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
10	Towards a Simple Sampled-Data Control Law for Stably Invertible Linear Systems. IFAC-PapersOnLine, 2020, 53, 4582-4587.	0.5	2
11	About Dissipative and Pseudo Port-Hamiltonian Formulations of Irreversible Newtonian Compressible Flows. IFAC-PapersOnLine, 2020, 53, 11521-11526.	0.5	9
12	Identification of continuous-time models with slowly time-varying parameters. Control Engineering Practice, 2019, 93, 104165.	3.2	9
13	A Scalable port-Hamiltonian Model for Incompressible Fluids in Irregular Geometries. IFAC-PapersOnLine, 2019, 52, 102-107.	0.5	1
14	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
15	B-spline Generalized Hold for Nonlinear Sampled-Data Systems. , 2019, , .		2
16	Frequency domain interpretation of the Smith predictor. , 2018, , .		1
17	A port-Hamiltonian Fluid-Structure Interaction Model for the Vocal folds – This work was supported by CONICYT-PFCHA/2017-21170472, and AC3E CONICYT-Basal Project FB-0008.. IFAC-PapersOnLine, 2018, 51, 62-67.	0.5	6
18	Modified Euler-Frobenius Polynomials With Application to Sampled Data Modelling. IEEE Transactions on Automatic Control, 2017, 62, 3972-3985.	3.6	11

#	ARTICLE	IF	CITATIONS
19	Sensorless control of a SynRM for the whole speed range based on a nonlinear observability analysis. , 2017, , .		5
20	Application of point processes estimation to a Metro system. , 2016, , .		1
21	Revisiting the EKF concept for low speed sensorless control of cage induction motors. , 2016, , .		3
22	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
23	Vocal fold modeling through the port-Hamiltonian systems approach. , 2015, , .		3
24	A comparison of discrete-time models for model predictive control of induction motor drives. , 2015, , .		11
25	Identification of sparse FIR systems using a general quantisation scheme. International Journal of Control, 2014, 87, 874-886.	1.2	27
26	EM-based ML channel estimation in OFDM systems with phase distortion using RB-EKF. , 2014, , .		1
27	Sampled-Data Models for Linear and Nonlinear Systems. Communications and Control Engineering, 2014, , .	1.0	72
28	Comments on "Predictive Torque Control of Induction Machines Based on State-Space Models". IEEE Transactions on Industrial Electronics, 2014, 61, 1635-1638.	5.2	22
29	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
30	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
31	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
32	Applications of Approximate Sampled-Data Models in Estimation and Control. Communications and Control Engineering, 2014, , 117-135.	1.0	0
33	Robustness. Communications and Control Engineering, 2014, , 73-77.	1.0	0
34	Approximate Models for Nonlinear Deterministic Systems. Communications and Control Engineering, 2014, , 101-115.	1.0	0
35	Sampling Zeros of Discrete Models for Fractional Order Systems. IEEE Transactions on Automatic Control, 2013, 58, 2383-2388.	3.6	10
36	Vector Measures of Accuracy for Sampled Data Models of Nonlinear Systems. IEEE Transactions on Automatic Control, 2013, 58, 224-230.	3.6	10

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37	Sampling and Sampled-Data Models: The Interface Between the Continuous World and Digital Algorithms. IEEE Control Systems, 2013, 33, 34-53.	1.0	64
38	Continuous-time system identification of a ship on a river. , 2013, , .		2
39	Model validation methods for errors-in-variables estimation. , 2013, , .		0
40	Orthonormal basis functions applied to optimal control with pole location constraints. , 2013, , .		2
41	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
42	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
43	Dual time-“frequency domain system identification. Automatica, 2012, 48, 3031-3041.	3.0	33
44	Recursive parameter and state estimation for a mining industry process. , 2012, , .		0
45	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
46	State and Resistance Estimation in Sensorless FOC Induction Motor Drive Using a Reduced Order Unscented Kalman Filter. , 2012, , .		4
47	Variance or spectral density in sampled data filtering?. Journal of Global Optimization, 2012, 52, 335-351.	1.1	6
48	Optimal control synthesis with prescribed closed loop poles. , 2011, , .		1
49	A filtering approach for model selection. , 2011, , .		0
50	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
51	Editorial: Continuous-time model identification. IET Control Theory and Applications, 2011, 5, 839-841.	1.2	11
52	On the equivalence of time and frequency domain maximum likelihood estimation. Automatica, 2010, 46, 260-270.	3.0	55
53	Identification of state-space systems using a dual time-frequency domain approach. , 2010, , .		1
54	Discussion on: “Identification of ARX and ARARX Models in the Presence of Input and Output Noises” European Journal of Control, 2010, 16, 256-257.	1.6	3

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55	On sampled-data models for model predictive control. , 2010, , .		43
56	Sampling and sampled-data models. , 2010, , .		35
57	Predictive Torque Control of Induction Machines Based on State-Space Models. IEEE Transactions on Industrial Electronics, 2009, 56, 1916-1924.	5.2	383
58	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
59	Una medida de interacción 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
60	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
61	Robust identification of process models from plant data. Journal of Process Control, 2008, 18, 810-820.	1.7	36
62	Robust Identification of Continuous-time Systems from Sampled Data. , 2008, , 67-89.		3
63	On the relationship between splines, sampling zeros and numerical integration in sampled-data models for linear systems. , 2008, , .		3
64	Relative Error Issues in Sampled Data Models. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2008, 41, 5047-5052.	0.4	6
65	System identification using quantized data. , 2007, , .		55
66	Mixed domain analysis of MIMO dynamic interactions. , 2007, , .		4
67	Frequency domain identification of MIMO state space models using the EM algorithm. , 2007, , .		13
68	Insights into the zero dynamics of sampled-data models for linear and nonlinear stochastic systems. , 2007, , .		4
69	SAMPLED-DATA MODELS FOR STOCHASTIC NONLINEAR SYSTEMS. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2006, 39, 434-439.	0.4	12
70	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
71	Control of constrained linear systems using fast sampling rates. Systems and Control Letters, 2005, 54, 981-990.	1.3	17
72	On sampled-data models for nonlinear systems. IEEE Transactions on Automatic Control, 2005, 50, 1477-1489.	3.6	117

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73	From classical to state-feedback-based controllers. IEEE Control Systems, 2003, 23, 58-67.	1.0	12
74	Loop Performance Assessment for Decentralized Control of Stable Linear Systems. European Journal of Control, 2003, 9, 118-132.	1.6	17
75	Performance limitations for linear feedback systems in the presence of plant uncertainty. IEEE Transactions on Automatic Control, 2003, 48, 1312-1319.	3.6	66
76	Singular structure convergence for linear quadratic problems. , 2003, , .		0