Luis Antonio Aguirre

List of Publications by Year
in descending order

179	3,472	136950	197818
papers	citations	32 h-index	49 g-index

180	180	180	1832
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Improved structure selection for nonlinear models based on term clustering. International Journal of Control, 1995, 62, 569-587.	1.9	101
2	Modeling Nonlinear Dynamics and Chaos: A Review. Mathematical Problems in Engineering, 2009, 2009, 1-35.	1.1	98
3	Relation between observability and differential embeddings for nonlinear dynamics. Physical Review E, 2005, 71, 066213.	2.1	97
4	Dynamical effects of overparametrization in nonlinear models. Physica D: Nonlinear Phenomena, 1995, 80, 26-40.	2.8	91
5	Investigating nonlinear dynamics from time series: The influence of symmetries and the choice of observables. Chaos, 2002, 12, 549-558.	2.5	91
6	What can be learned from a chaotic cancer model?. Journal of Theoretical Biology, 2013, 322, 7-16.	1.7	89
7	On the non-equivalence of observables in phase-space reconstructions from recorded time series. Journal of Physics A, 1998, 31, 7913-7927.	1.6	86
8	State estimation for linear and non-linear equality-constrained systems. International Journal of Control, 2009, 82, 918-936.	1.9	85
9	Inductorless Chua's circuit. Electronics Letters, 2000, 36, 1915.	1.0	81
10	Gain-Constrained Kalman Filtering for Linear and Nonlinear Systems. IEEE Transactions on Signal Processing, 2008, 56, 4113-4123.	5.3	78
11	On unscented Kalman filtering with state interval constraints. Journal of Process Control, 2010, 20, 45-57.	3.3	77
12	RETRIEVING DYNAMICAL INVARIANTS FROM CHAOTIC DATA USING NARMAX MODELS. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 1995, 05, 449-474.	1.7	75
13	Identification of models for chaotic systems from noisy data: implications for performance and nonlinear filtering. Physica D: Nonlinear Phenomena, 1995, 85, 239-258.	2.8	73
14	VALIDATING IDENTIFIED NONLINEAR MODELS WITH CHAOTIC DYNAMICS. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 1994, 04, 109-125.	1.7	63
15	A nonlinear correlation function for selecting the delay time in dynamical reconstructions. Physics Letters, Section A: General, Atomic and Solid State Physics, 1995, 203, 88-94.	2.1	59
16	EFFECTS OF THE SAMPLING TIME ON THE DYNAMICS AND IDENTIFICATION OF NONLINEAR MODELS. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 1995, 05, 1541-1556.	1.7	55
17	Use of a priori information in the identification of global nonlinear models-a case study using a buck converter. IEEE Transactions on Circuits and Systems Part 1: Regular Papers, 2000, 47, 1081-1085.	0.1	52
18	On the interpretation and practice of dynamical differences between Hammerstein and Wiener models. IET Control Theory and Applications, 2005, 152, 349-356.	1.7	50

#	Article	IF	Citations
19	Evidence for low dimensional chaos in sunspot cycles. Astronomy and Astrophysics, 2006, 449, 379-387.	5.1	50
20	Observability of multivariate differential embeddings. Journal of Physics A, 2005, 38, 6311-6326.	1.6	46
21	Global models from the Canadian lynx cycles as a direct evidence for chaos in real ecosystems. Journal of Mathematical Biology, 2007, 55, 21-39.	1.9	43
22	Forecasting the Time Series ofÂSunspot Numbers. Solar Physics, 2008, 249, 103-120.	2.5	43
23	GLOBAL NONLINEAR POLYNOMIAL MODELS: STRUCTURE, TERM CLUSTERS AND FIXED POINTS. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 1996, 06, 279-294.	1.7	38
24	Controllability and observability of linear systems: some noninvariant aspects. IEEE Transactions on Education, 1995, 38, 33-39.	2.4	37
25	Structural, dynamical and symbolic observability: From dynamical systems to networks. PLoS ONE, 2018, 13, e0206180.	2.5	37
26	Failure in distinguishing colored noise from chaos using the â€œnoise titrationâ€•technique. Physical Review E, 2009, 79, 035201.	2.1	35
27	Data-driven soft sensor of downhole pressure for a gas-lift oil well. Control Engineering Practice, 2014, 22, 34-43.	5.5	35
28	Structure-selection techniques applied to continuous-time nonlinear models. Physica D: Nonlinear Phenomena, 2001, 158, 1-18.	2.8	33
29	Frequently asked questions about global modeling. Chaos, 2009, 19, 023103.	2.5	33
30	Interplay between synchronization, observability, and dynamics. Physical Review E, 2010, 82, 016204.	2.1	33
31	Flight path reconstruction â€“ A comparison of nonlinear Kalman filter and smoother algorithms. Aerospace Science and Technology, 2011, 15, 60-71.	4.8	33
32	Nonlinear Identification and Cluster Analysis of Chaotic Attractors from a Real Implementation of Chua's Circuit. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 1997, 07, 1411-1423.	1.7	32
33	Should all the species of a food chain be counted to investigate the global dynamics?. Chaos, Solitons and Fractals, 2002, 13, 1099-1113.	5.1	32
34	Difference equations versus differential equations, a possible equivalence for the RÃ¶ssler system?. Physica D: Nonlinear Phenomena, 2004, 195, 29-49.	2.8	32
35	How the choice of the observable may influence the analysis of nonlinear dynamical systems. Communications in Nonlinear Science and Numerical Simulation, 2006, 11, 555-576.	3.3	32
36	Unscented filtering for interval-constrained nonlinear systems. , 2008, , .		31

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37	Graphical interpretation of observability in terms of feedback circuits. Physical Review E, 2005, 72, 056202.	2.1	30
38	Symbolic observability coefficients for univariate and multivariate analysis. Physical Review E, 2009, 79, 066210.	2.1	30
39	Investigating observability properties from data in nonlinear dynamics. Physical Review E, 2011, 83, 066209.	2.1	30
40	Investigation of determinism in heart rate variability. Chaos, 2000, 10, 398-410.	2.5	29
41	Black and Gray-Box Identification of a Hydraulic Pumping System. IEEE Transactions on Control Systems Technology, 2011, 19, 398-406.	5.2	29
42	Imposing steady-state performance on identified nonlinear polynomial models by means of constrained parameter estimation. IET Control Theory and Applications, 2004, 151, 174-179.	1.7	28
43	Prediction and simulation errors in parameter estimation for nonlinear systems. Mechanical Systems and Signal Processing, 2010, 24, 2855-2867.	8.0	28
44	Using steady-state prior knowledge to constrain parameter estimates in nonlinear system identification. IEEE Transactions on Circuits and Systems Part 1: Regular Papers, 2002, 49, 1376-1381.	0.1	26
45	UPS Parallel Balanced Operation Without Explicit Estimation of Reactive Powerâ€"A Simpler Scheme. IEEE Transactions on Circuits and Systems II: Express Briefs, 2008, 55, 1061-1065.	3.0	25
46	Maximum a posteriori state path estimation: Discretization limits and their interpretation. Automatica, 2014, 50, 1360-1368.	5.0	25
47	Cluster analysis of NARMAX models for signal-dependent systems. IET Control Theory and Applications, 1998, 145, 409-414.	1.7	24
48	Nonlinearities in NARX polynomial models: representation and estimation. IET Control Theory and Applications, 2002, 149, 343-348.	1.7	24
49	Using data-driven discrete-time models and the unscented Kalman filter to estimate unobserved variables of nonlinear systems. Physical Review E, 2005, 72, 026226.	2.1	24
50	Nonlinear graph-based theory for dynamical network observability. Physical Review E, 2018, 98, 020303.	2.1	24
51	State estimation for equality-constrained linear systems. , 2007, , .		23
52	Numerical solution of Caputo fractional differential equations with infinity memory effect at initial condition. Communications in Nonlinear Science and Numerical Simulation, 2019, 69, 237-247.	3.3	23
53	SOME REMARKS ON STRUCTURE SELECTION FOR NONLINEAR MODELS. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 1994, 04, 1707-1714.	1.7	22
54	MODELING CHAOTIC DYNAMICS WITH DISCRETE NONLINEAR RATIONAL MODELS. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2000, 10, 1019-1032.	1.7	22

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55	Constraining the topology of neural networks to ensure dynamics with symmetry properties. Physical Review E, 2004, 69, 026701.	2.1	22
56	Evaluation of dynamical models: Dissipative synchronization and other techniques. Physical Review E, 2006, 74, 066203.	2.1	22
57	Required criteria for recognizing new types of chaos: Application to the â€œcordâ€•attractor. Physical Review E, 2012, 85, 036204.	2.1	22
58	Multiobjective parameter estimation for non-linear systems: affine information and least-squares formulation. International Journal of Control, 2007, 80, 863-871.	1.9	21
59	On the smoothness of nonlinear system identification. Automatica, 2020, 121, 109158.	5.0	21
60	The least squares PadÃ© method for model reduction. International Journal of Systems Science, 1992, 23, 1559-1570.	5.5	20
61	Nonlinear multivariable modeling and analysis of sleep apnea time series. Computers in Biology and Medicine, 1999, 29, 207-228.	7.0	20
62	Quantitative measure of modal dominance for continuous systems. , 0, , .		19
63	Dynamical prediction and pattern mapping in short-term load forecasting. International Journal of Electrical Power and Energy Systems, 2008, 30, 73-82.	5.5	19
64	Dynamical analysis of fractional-order RÃ¶ssler and modified Lorenz systems. Physics Letters, Section A: General, Atomic and Solid State Physics, 2013, 377, 1707-1719.	2.1	19
65	Observability of Network Systems: A Critical Review of Recent Results. Journal of Control, Automation and Electrical Systems, 2020, 31, 1348-1374.	2.0	19
66	Piecewise affine models of chaotic attractors: The RÃ¶ssler and Lorenz systems. Chaos, 2006, 16, 013115.	2.5	18
67	Observability and synchronization of neuron models. Chaos, 2017, 27, 103103.	2.5	18
68	Functional observability and target state estimation in large-scale networks. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, .	7.1	16
69	NONLINEAR IDENTIFICATION USING PRIOR KNOWLEDGE OF FIXED POINTS: A MULTIOBJECTIVE APPROACH. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2003, 13, 1229-1246.	1.7	15
70	Transmitting information by controlling nonlinear oscillators. Physica D: Nonlinear Phenomena, 2004, 196, 387-406.	2.8	15
71	Insights into the algebraic structure of Lorenz-like systems using feedback circuit analysis and piecewise affine models. Chaos, 2007, 17, 023104.	2.5	15
72	Multi-objective parameter estimation via minimal correlation criterion. Journal of Process Control, 2007, 17, 321-332.	3.3	15

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73	NARMAX model identification using a randomised approach. International Journal of Modelling, Identification and Control, 2019, 31, 205.	0.2	15
74	PID tuning based on model matching. Electronics Letters, 1992, 28, 2269-2271.	1.0	14
75	DISCRETE RECONSTRUCTION OF STRANGE ATTRACTORS OF CHUAâ€™S CIRCUIT. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 1994, 04, 853-864.	1.7	14
76	On the structure of nonlinear polynomial models: higher order correlation functions, spectra, and term clusters. IEEE Transactions on Circuits and Systems Part 1: Regular Papers, 1997, 44, 450-453.	0.1	14
77	Stability analysis of sleep apnea time series using identified models: a case study. Computers in Biology and Medicine, 2004, 34, 241-257.	7.0	14
78	Sufficient conditions for rate-independent hysteresis in autoregressive identified models. Mechanical Systems and Signal Processing, 2016, 75, 607-617.	8.0	14
79	Development of soft sensors for permanent downhole Gauges in deepwater oil wells. Control Engineering Practice, 2017, 65, 83-99.	5.5	14
80	MultiObjective Evolutionary Approach to Grey-Box Identification of Buck Converter. IEEE Transactions on Circuits and Systems I: Regular Papers, 2020, 67, 2016-2028.	5.4	14
81	Closed-loop suppression of chaos in nonlinear driven oscillators. Journal of Nonlinear Science, 1995, 5, 189-206.	2.1	13
82	Recovering map static nonlinearities from chaotic data using dynamical models. Physica D: Nonlinear Phenomena, 1997, 100, 41-57.	2.8	13
83	Scalar modeling and analysis of a 3D biochemical reaction model. Journal of Theoretical Biology, 2004, 228, 421-430.	1.7	13
84	Observability of nonlinear dynamics: Normalized results and a time-series approach. Chaos, 2008, 18, 013123.	2.5	13
85	Using uncertain prior knowledge to improve identified nonlinear dynamic models. Journal of Process Control, 2011, 21, 82-91.	3.3	13
86	Building dynamical models from data and prior knowledge: The case of the first period-doubling bifurcation. Physical Review E, 2007, 76, 046219.	2.1	12
87	The use of coevolution and the artificial immune system for ensemble learning. Soft Computing, 2011, 15, 1735-1747.	3.6	12
88	Smoothing data with local instabilities for the identification of chaotic systems. International Journal of Control, 1996, 63, 483-505.	1.9	11
89	Parameter estimation of a induction machine using a continuous time model. , 0, , .		11
90	CONTROL OF NONLINEAR DYNAMICS: WHERE DO MODELS FIT IN?. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2000, 10, 667-681.	1.7	11

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91	Does preprocessing change nonlinear measures of heart rate variability?. Computers in Biology and Medicine, 2002, 32, 481-494.	7.0	11
92	Steady-state performance constraints for dynamical models based on RBF networks. Engineering Applications of Artificial Intelligence, 2007, 20, 924-935.	8.1	11
93	Unscented filtering for equality-constrained nonlinear systems. , 2008, , .		11
94	A four fuel drum boiler combustion control system study and redesign. , 1990, , .		10
95	Model reference control of regular and chaotic dynamics in the Duffing-Ueda oscillator. IEEE Transactions on Circuits and Systems Part 1: Regular Papers, 1994, 41, 477-480.	0.1	10
96	Multiobjective nonlinear system identification: a case study with thyristor controlled series capacitor (TCSC). International Journal of Systems Science, 2004, 35, 537-546.	5.5	10
97	Enhancing multivariate singular spectrum analysis for phase synchronization: The role of observability. Chaos, 2016, 26, 093112.	2.5	10
98	Controllability and synchronizability: Are they related?. Chaos, Solitons and Fractals, 2016, 83, 242-251.	5.1	10
99	A hybrid algorithm for Caputo fractional differential equations. Communications in Nonlinear Science and Numerical Simulation, 2016, 33, 133-140.	3.3	10
100	New algorithm for closed-loop model matching. Electronics Letters, 1991, 27, 2260.	1.0	9
101	Automatic sleep staging from ventilator signals in non-invasive ventilation. Computers in Biology and Medicine, 2013, 43, 833-839.	7.0	9
102	Control and observability aspects of phase synchronization. Nonlinear Dynamics, 2018, 91, 2203-2217.	5.2	9
103	â€œParallel Training Considered Harmful?â€• Comparing series-parallel and parallel feedforward network training. Neurocomputing, 2018, 316, 222-231.	5.9	9
104	An Algorithm for Estimating Fixed Points of Dynamical Systems from Time Series. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 1998, 08, 2203-2213.	1.7	8
105	Impact of the recorded variable on recurrence quantification analysis of flows. Physics Letters, Section A: General, Atomic and Solid State Physics, 2014, 378, 2382-2388.	2.1	8
106	Matrix formulation and singular-value decomposition algorithm for structured varimax rotation in multivariate singular spectrum analysis. Physical Review E, 2016, 93, 052216.	2.1	8
107	Model reduction via least-squares PadÃ© simplification of squared-magnitude functions. International Journal of Systems Science, 1994, 25, 1191-1204.	5.5	7
108	Computer-aided analysis and design of control systems using model approximation techniques. Computer Methods in Applied Mechanics and Engineering, 1994, 114, 273-294.	6.6	7

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109	Time series analysis of monthly beef cattle prices with nonlinear autoregressive models. Applied Economics, 2000, 32, 265-275.	2.2	7
110	INDUCED ONE-PARAMETER BIFURCATIONS IN IDENTIFIED NONLINEAR DYNAMICAL MODELS. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2002, 12, 135-145.	1.7	7
111	PCCHUA â€" A LABORATORY SETUP FOR REAL-TIME CONTROL AND SYNCHRONIZATION OF CHAOTIC OSCILLATIONS. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2005, 15, 2349-2360.	1.7	7
112	Phase definition to assess synchronization quality of nonlinear oscillators. Physical Review E, 2018, 97, 052202.	2.1	7
113	Piecewise affine identification of a hydraulic pumping system using evolutionary computation. IET Control Theory and Applications, 2019, 13, 1394-1403.	2.1	7
114	Identification and nonlinearity compensation of hysteresis using NARX models. Nonlinear Dynamics, 2020, 102, 285-301.	5.2	7
115	Evolving an Ensemble of Neural Networks Using Artificial Immune Systems. Lecture Notes in Computer Science, 2008, , 121-130.	1.3	7
116	Effects of network heterogeneity and tripping time on the basin stability of power systems. Communications in Nonlinear Science and Numerical Simulation, 2020, 89, 105296.	3.3	7
117	Designing controllers by means of model reduction techniques. Electronics Letters, 1993, 29, 389.	1.0	6
118	Partial least-squares PadÃ© reduction with exact retention of poles and zeros. International Journal of Systems Science, 1994, 25, 2377-2391.	5.5	6
119	A modified observer scheme for fault detection and isolation applied to a poorly observed process with integration. Journal of Process Control, 1998, 8, 47-56.	3.3	6
120	Analogy between a 10D model for nonlinear waveâ€"wave interaction in a plasma and the 3D Lorenz dynamics. Physica D: Nonlinear Phenomena, 2003, 179, 33-52.	2.8	6
121	Extended chaos control method applied to Chua circuit. Electronics Letters, 1999, 35, 768.	1.0	5
122	IdentificaÃ§Ã£o nÃ£o-linear caixa-cinza: uma revisÃ£o e novos resultados. Controle and Automacao, 2004, 15, 109-126.	0.2	5
123	Equivalence of nonâ€linear model structures based on Pareto uncertainty. IET Control Theory and Applications, 2015, 9, 2423-2429.	2.1	5
124	Reducing vaccination level to eradicate a disease by means of a mixed control with isolation. Biomedical Signal Processing and Control, 2018, 40, 83-90.	5.7	5
125	Phase synchronization analysis of bridge oscillators between clustered networks. Nonlinear Dynamics, 2019, 97, 2399-2411.	5.2	5
126	The reliability of recurrence network analysis is influenced by the observability properties of the recorded time series. Chaos, 2019, 29, 083101.	2.5	5

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127	Fixed Point Stability Analysis of Chua's Circuit: A Case Study with a Real Circuit. Journal of Circuits, Systems and Computers, 1997, 07, 111-115.	1.5	4
128	Higher-Order Spectra of Nonlinear Polynomial Models for Chua's Circuit. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 1998, 08, 2425-2431.	1.7	4
129	Selecting Transients Automatically for the Identification of Models for an Oil Well. IFAC-PapersOnLine, 2015, 48, 154-158.	0.9	4
130	Downhole Pressure Estimation Using Committee Machines and Neural Networks. IFAC-PapersOnLine, 2015, 48, 286-291.	0.9	4
131	Joint maximum a posteriori state path and parameter estimation in stochastic differential equations. Automatica, 2017, 81, 403-408.	5.0	4
132	Shooting Methods for Parameter Estimation of Output Error Models * *This work has been supported by the Brazilian agencies CAPES, CNPq and FAPEMIG.. IFAC-PapersOnLine, 2017, 50, 13998-14003.	0.9	4
133	Recurrence plots for the assessment of patient-ventilator interactions quality during invasive mechanical ventilation. Chaos, 2018, 28, 085707.	2.5	4
134	Learning robot reaching motions by demonstration using nonlinear autoregressive models. Robotics and Autonomous Systems, 2018, 107, 182-195.	5.1	4
135	Particle filtering of dynamical networks: Highlighting observability issues. Chaos, 2019, 29, 033118.	2.5	4
136	Open-loop model matching in frequency domain. Electronics Letters, 1992, 28, 484.	1.0	3
137	Algorithm for extended least-squares model reduction. Electronics Letters, 1995, 31, 1957-1959.	1.0	3
138	Direct Injection Diesel Engine Cylinder Pressure Modelling via NARMA Identification Technique. , 2005, , .		3
139	The use of synthetic input sequences in time series modeling. Physics Letters, Section A: General, Atomic and Solid State Physics, 2008, 372, 5276-5282.	2.1	3
140	Testing for intracycle determinism in pseudoperiodic time series. Chaos, 2008, 18, 023125.	2.5	3
141	Identification of smooth nonlinear dynamical systems with non-smooth steady-state features. Automatica, 2014, 50, 1160-1166.	5.0	3
142	Lasso Regularization Paths for NARMAX Models via Coordinate Descent. , 2018, , .		3
143	Including steady-state information in nonlinear models: An application to the development of soft-sensors. Engineering Applications of Artificial Intelligence, 2021, 102, 104253.	8.1	3
144	Application of Optimal Control of Infectious Diseases in a Model-Free Scenario. SN Computer Science, 2021, 2, 405.	3.6	3

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145	Term clustering and the order selection of linear continuous systems. Journal of the Franklin Institute, 1994, 331, 403-415.	3.4	2
146	Matrix formulae for open and closed-loop approximate model matching in frequency domain. International Journal of Systems Science, 1995, 26, 2069-2089.	5.5	2
147	Data based dynamical modeling of vision observed small robots. , 0, , .		2
148	Data assimilation for magnetohydrodynamics with a zero-divergence constraint on the magnetic field. , 2008, , .		2
149	Filtragem de kalman com restriÃ§Ãµes para sistemas nÃ£o-lineares: revisÃ£o e novos resultados. Controle and Automacao, 2010, 21, 127-146.	0.2	2
150	Modeling priority analysis via Hybrid Petri Nets for an Internal Combustion Engine Management System. , 2010, , .		2
151	Global models for patientâ€“ventilator interactions in noninvasive ventilation with asynchronies. Computers in Biology and Medicine, 2011, 41, 253-264.	7.0	2
152	Nonstationarity signatures in the dynamics of global nonlinear models. Chaos, 2012, 22, 033136.	2.5	2
153	UKF-Based Data-Driven Soft Sensing: A Case Study of a Gas-Lifted Oil Well*. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2012, 45, 918-923.	0.4	2
154	Use of self-consistency in the structure selection of NARX polynomial models. International Journal of Modelling, Identification and Control, 2012, 15, 1.	0.2	2
155	Leakage Estimation Using Kalman Filtering in Noninvasive Mechanical Ventilation. IEEE Transactions on Biomedical Engineering, 2013, 60, 1234-1240.	4.2	2
156	Individuality of breathing patterns in patients under noninvasive mechanical ventilation evidenced by chaotic global models. Chaos, 2013, 23, 013137.	2.5	2
157	Impact of mixed measurements in detecting phase synchronization in networks using multivariate singular spectrum analysis. Nonlinear Dynamics, 2019, 96, 2197-2209.	5.2	2
158	Phase coherence is not related to topology. Physical Review E, 2020, 101, 032207.	2.1	2
159	Nonlinearity compensation based on identified NARX polynomials models. Nonlinear Dynamics, 2022, 107, 709-725.	5.2	2
160	The least-squares PadÃ© method for model simplification of multivariable systems. International Journal of Systems Science, 1995, 26, 819-839.	5.5	1
161	State space parsimonious reconstruction of attractor produced by an electronic oscillator. AIP Conference Proceedings, 2000, , .	0.4	1
162	Data-based dynamical modeling of externally observed actuators-only robots. IEEE Transactions on Systems, Man and Cybernetics, Part A: Systems and Humans, 2006, 36, 706-717.	2.9	1

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163	CHAOTIFICATION OF DISCRETE SYSTEMS BASED ON MODELS IDENTIFIED FROM DATA. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2006, 16, 185-190.	1.7	1
164	Imposing a Hopf bifurcation on a model estimated from noisy data from the delayed logistic equation. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2012, 45, 12-17.	0.4	1
165	Joint Maximum a Posteriori Smoother for State and Parameter Estimation in Nonlinear Dynamical Systems*. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2012, 45, 900-905.	0.4	1
166	Which System Variables Carry Robust Early Signs of Upcoming Phase Transition? An Ecological Example. PLoS ONE, 2016, 11, e0163003.	2.5	1
167	ResiliÃªncia de Sistemas ElÃ©tricos de PotÃªncia Representados por Redes de Kuramoto. , 0, , .		1
168	NARMAX model identification using a randomised approach. International Journal of Modelling, Identification and Control, 2019, 31, 205.	0.2	1
169	Comment: Simplification of system model in time domain using continued fraction expansion in third Cauer form. Electronics Letters, 1991, 27, 884-884.	1.0	0
170	The use of identified models in the control of a chaotic circuit. , 0, , .		0
171	Identification Techniques Applied to an Interacting Tank System. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 1997, 30, 541-546.	0.4	0
172	Algorithm for Approximate Model Matching for Loops With Non-Negligible Feedback Dynamics. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 1998, 120, 394-398.	1.6	0
173	Improved control of visually observed robotic agents based on autoregressive model prediction. , 0, , .		0
174	The historical development of texts for teaching classical control of linear systems. Annual Reviews in Control, 2015, 39, 1-11.	7.9	0
175	Celebrating 45 Years of the Brazilian Society of Automatics. Journal of Control, Automation and Electrical Systems, 0, , 1.	2.0	0
176	Analysis of Economic Time Series Using Narmax Polynomial Models. Studies in Computational Finance, 2002, , 213-235.	0.1	0
177	Particle Swarm Optimization (PSO) Fuzzy Systems and NARMAX Approaches Trade-Off Applied to Thermal-Vacuum Chamber Identification. , 2006, , .		0
178	Enabling Invariant Models to Describe Time-Varying Dynamics: A Case Study. IFAC-PapersOnLine, 2021, 54, 1-6.	0.9	0
179	Input Design and Recommendations for the Identification of Hysteretic NARX Models. , 0, , .		0