Luis Antonio Aguirre

List of Publications by Year
in descending order

179 papers	3,472 citations	136950 32 h-index	197818 49 g-index
180 all docs	180 docs citations	180 times ranked	1832 citing authors

#	Article	IF	Citations
1	Nonlinearity compensation based on identified NARX polynomials models. Nonlinear Dynamics, 2022, 107, 709-725.	5.2	2
2	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
3	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
4	Application of Optimal Control of Infectious Diseases in a Model-Free Scenario. SN Computer Science, 2021, 2, 405.	3.6	3
5	Enabling Invariant Models to Describe Time-Varying Dynamics: A Case Study. IFAC-PapersOnLine, 2021, 54, 1-6.	0.9	0
6	On the smoothness of nonlinear system identification. Automatica, 2020, 121, 109158.	5.0	21
7	Observability of Network Systems: A Critical Review of Recent Results. Journal of Control, Automation and Electrical Systems, 2020, 31, 1348-1374.	2.0	19
8	Identification and nonlinearity compensation of hysteresis using NARX models. Nonlinear Dynamics, 2020, 102, 285-301.	5.2	7
9	Phase coherence is not related to topology. Physical Review E, 2020, 101, 032207.	2.1	2
10	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
11	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
12	Piecewise affine identification of a hydraulic pumping system using evolutionary computation. IET Control Theory and Applications, 2019, 13, 1394-1403.	2.1	7
13	Phase synchronization analysis of bridge oscillators between clustered networks. Nonlinear Dynamics, 2019, 97, 2399-2411.	5.2	5
14	The reliability of recurrence network analysis is influenced by the observability properties of the recorded time series. Chaos, 2019, 29, 083101.	2.5	5
15	NARMAX model identification using a randomised approach. International Journal of Modelling, Identification and Control, 2019, 31, 205.	0.2	15
16	Particle filtering of dynamical networks: Highlighting observability issues. Chaos, 2019, 29, 033118.	2.5	4
17	Impact of mixed measurements in detecting phase synchronization in networks using multivariate singular spectrum analysis. Nonlinear Dynamics, 2019, 96, 2197-2209.	5.2	2
18	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

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19	NARMAX model identification using a randomised approach. International Journal of Modelling, Identification and Control, 2019, 31, 205.	0.2	1
20	Control and observability aspects of phase synchronization. Nonlinear Dynamics, 2018, 91, 2203-2217.	5.2	9
21	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
22	Lasso Regularization Paths for NARMAX Models via Coordinate Descent. , 2018, , .		3
23	Structural, dynamical and symbolic observability: From dynamical systems to networks. PLoS ONE, 2018, 13, e0206180.	2.5	37
24	Recurrence plots for the assessment of patient-ventilator interactions quality during invasive mechanical ventilation. Chaos, 2018, 28, 085707.	2.5	4
25	Learning robot reaching motions by demonstration using nonlinear autoregressive models. Robotics and Autonomous Systems, 2018, 107, 182-195.	5.1	4
26	Phase definition to assess synchronization quality of nonlinear oscillators. Physical Review E, 2018, 97, 052202.	2.1	7
27	Nonlinear graph-based theory for dynamical network observability. Physical Review E, 2018, 98, 020303.	2.1	24
28	â€œParallel Training Considered Harmful?â€ Comparing series-parallel and parallel feedforward network training. Neurocomputing, 2018, 316, 222-231.	5.9	9
29	Joint maximum a posteriori state path and parameter estimation in stochastic differential equations. Automatica, 2017, 81, 403-408.	5.0	4
30	Observability and synchronization of neuron models. Chaos, 2017, 27, 103103.	2.5	18
31	Development of soft sensors for permanent downhole Gauges in deepwater oil wells. Control Engineering Practice, 2017, 65, 83-99.	5.5	14
32	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
33	Which System Variables Carry Robust Early Signs of Upcoming Phase Transition? An Ecological Example. PLoS ONE, 2016, 11, e0163003.	2.5	1
34	Enhancing multivariate singular spectrum analysis for phase synchronization: The role of observability. Chaos, 2016, 26, 093112.	2.5	10
35	Controllability and synchronizability: Are they related?. Chaos, Solitons and Fractals, 2016, 83, 242-251.	5.1	10
36	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

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37	Sufficient conditions for rate-independent hysteresis in autoregressive identified models. Mechanical Systems and Signal Processing, 2016, 75, 607-617.	8.0	14
38	A hybrid algorithm for Caputo fractional differential equations. Communications in Nonlinear Science and Numerical Simulation, 2016, 33, 133-140.	3.3	10
39	Equivalence of nonâ€‘linear model structures based on Pareto uncertainty. IET Control Theory and Applications, 2015, 9, 2423-2429.	2.1	5
40	Selecting Transients Automatically for the Identification of Models for an Oil Well. IFAC-PapersOnLine, 2015, 48, 154-158.	0.9	4
41	Downhole Pressure Estimation Using Committee Machines and Neural Networks. IFAC-PapersOnLine, 2015, 48, 286-291.	0.9	4
42	The historical development of texts for teaching classical control of linear systems. Annual Reviews in Control, 2015, 39, 1-11.	7.9	0
43	Identification of smooth nonlinear dynamical systems with non-smooth steady-state features. Automatica, 2014, 50, 1160-1166.	5.0	3
44	Maximum a posteriori state path estimation: Discretization limits and their interpretation. Automatica, 2014, 50, 1360-1368.	5.0	25
45	Data-driven soft sensor of downhole pressure for a gas-lift oil well. Control Engineering Practice, 2014, 22, 34-43.	5.5	35
46	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
47	Automatic sleep staging from ventilator signals in non-invasive ventilation. Computers in Biology and Medicine, 2013, 43, 833-839.	7.0	9
48	Leakage Estimation Using Kalman Filtering in Noninvasive Mechanical Ventilation. IEEE Transactions on Biomedical Engineering, 2013, 60, 1234-1240.	4.2	2
49	What can be learned from a chaotic cancer model?. Journal of Theoretical Biology, 2013, 322, 7-16.	1.7	89
50	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
51	Individuality of breathing patterns in patients under noninvasive mechanical ventilation evidenced by chaotic global models. Chaos, 2013, 23, 013137.	2.5	2
52	Nonstationarity signatures in the dynamics of global nonlinear models. Chaos, 2012, 22, 033136.	2.5	2
53	Required criteria for recognizing new types of chaos: Application to the â€œcordâ€•attractor. Physical Review E, 2012, 85, 036204.	2.1	22
54	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

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55	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
56	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
57	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
58	Black and Gray-Box Identification of a Hydraulic Pumping System. IEEE Transactions on Control Systems Technology, 2011, 19, 398-406.	5.2	29
59	The use of coevolution and the artificial immune system for ensemble learning. Soft Computing, 2011, 15, 1735-1747.	3.6	12
60	Global models for patient–ventilator interactions in noninvasive ventilation with asynchronies. Computers in Biology and Medicine, 2011, 41, 253-264.	7.0	2
61	Flight path reconstruction – A comparison of nonlinear Kalman filter and smoother algorithms. Aerospace Science and Technology, 2011, 15, 60-71.	4.8	33
62	Using uncertain prior knowledge to improve identified nonlinear dynamic models. Journal of Process Control, 2011, 21, 82-91.	3.3	13
63	Investigating observability properties from data in nonlinear dynamics. Physical Review E, 2011, 83, 066209.	2.1	30
64	On unscented Kalman filtering with state interval constraints. Journal of Process Control, 2010, 20, 45-57.	3.3	77
65	Prediction and simulation errors in parameter estimation for nonlinear systems. Mechanical Systems and Signal Processing, 2010, 24, 2855-2867.	8.0	28
66	Filtragem de kalman com restrições para sistemas não-lineares: revisão e novos resultados. Controle and Automacao, 2010, 21, 127-146.	0.2	2
67	Interplay between synchronization, observability, and dynamics. Physical Review E, 2010, 82, 016204.	2.1	33
68	Modeling priority analysis via Hybrid Petri Nets for an Internal Combustion Engine Management System. , 2010, , .		2
69	Modeling Nonlinear Dynamics and Chaos: A Review. Mathematical Problems in Engineering, 2009, 2009, 1-35.	1.1	98
70	Symbolic observability coefficients for univariate and multivariate analysis. Physical Review E, 2009, 79, 066210.	2.1	30
71	Frequently asked questions about global modeling. Chaos, 2009, 19, 023103.	2.5	33
72	Failure in distinguishing colored noise from chaos using the "noise titration" technique. Physical Review E, 2009, 79, 035201.	2.1	35

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73	State estimation for linear and non-linear equality-constrained systems. International Journal of Control, 2009, 82, 918-936.	1.9	85
74	Forecasting the Time Series ofÂSunspot Numbers. Solar Physics, 2008, 249, 103-120.	2.5	43
75	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
76	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
77	Gain-Constrained Kalman Filtering for Linear and Nonlinear Systems. IEEE Transactions on Signal Processing, 2008, 56, 4113-4123.	5.3	78
78	Unscented filtering for equality-constrained nonlinear systems. , 2008, , .		11
79	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
80	Data assimilation for magnetohydrodynamics with a zero-divergence constraint on the magnetic field. , 2008, , .		2
81	Testing for intracycle determinism in pseudoperiodic time series. Chaos, 2008, 18, 023125.	2.5	3
82	Observability of nonlinear dynamics: Normalized results and a time-series approach. Chaos, 2008, 18, 013123.	2.5	13
83	Unscented filtering for interval-constrained nonlinear systems. , 2008, , .		31
84	Evolving an Ensemble of Neural Networks Using Artificial Immune Systems. Lecture Notes in Computer Science, 2008, , 121-130.	1.3	7
85	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
86	Insights into the algebraic structure of Lorenz-like systems using feedback circuit analysis and piecewise affine models. Chaos, 2007, 17, 023104.	2.5	15
87	Multiobjective parameter estimation for non-linear systems: affine information and least-squares formulation. International Journal of Control, 2007, 80, 863-871.	1.9	21
88	State estimation for equality-constrained linear systems. , 2007, , .		23
89	Steady-state performance constraints for dynamical models based on RBF networks. Engineering Applications of Artificial Intelligence, 2007, 20, 924-935.	8.1	11
90	Multi-objective parameter estimation via minimal correlation criterion. Journal of Process Control, 2007, 17, 321-332.	3.3	15

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91	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
92	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
93	Evidence for low dimensional chaos in sunspot cycles. Astronomy and Astrophysics, 2006, 449, 379-387.	5.1	50
94	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
95	Piecewise affine models of chaotic attractors: The RÃ¶ssler and Lorenz systems. Chaos, 2006, 16, 013115.	2.5	18
96	Evaluation of dynamical models: Dissipative synchronization and other techniques. Physical Review E, 2006, 74, 066203.	2.1	22
97	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
98	Particle Swarm Optimization (PSO) Fuzzy Systems and NARMAX Approaches Trade-Off Applied to Thermal-Vacuum Chamber Identification. , 2006, , .		0
99	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
100	Direct Injection Diesel Engine Cylinder Pressure Modelling via NARMA Identification Technique. , 2005, , .		3
101	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
102	Graphical interpretation of observability in terms of feedback circuits. Physical Review E, 2005, 72, 056202.	2.1	30
103	Relation between observability and differential embeddings for nonlinear dynamics. Physical Review E, 2005, 71, 066213.	2.1	97
104	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
105	Observability of multivariate differential embeddings. Journal of Physics A, 2005, 38, 6311-6326.	1.6	46
106	IdentificaÃ§Ã£o nÃ£o-linear caixa-cinza: uma revisÃ£o e novos resultados. Controle and Automacao, 2004, 15, 109-126.	0.2	5
107	Constraining the topology of neural networks to ensure dynamics with symmetry properties. Physical Review E, 2004, 69, 026701.	2.1	22
108	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

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109	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
110	Difference equations versus differential equations, a possible equivalence for the Rössler system?. Physica D: Nonlinear Phenomena, 2004, 195, 29-49.	2.8	32
111	Transmitting information by controlling nonlinear oscillators. Physica D: Nonlinear Phenomena, 2004, 196, 387-406.	2.8	15
112	Scalar modeling and analysis of a 3D biochemical reaction model. Journal of Theoretical Biology, 2004, 228, 421-430.	1.7	13
113	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
114	Analogy between a 10D model for nonlinear wave–wave interaction in a plasma and the 3D Lorenz dynamics. Physica D: Nonlinear Phenomena, 2003, 179, 33-52.	2.8	6
115	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
116	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
117	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
118	Investigating nonlinear dynamics from time series: The influence of symmetries and the choice of observables. Chaos, 2002, 12, 549-558.	2.5	91
119	Nonlinearities in NARX polynomial models: representation and estimation. IET Control Theory and Applications, 2002, 149, 343-348.	1.7	24
120	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
121	Does preprocessing change nonlinear measures of heart rate variability?. Computers in Biology and Medicine, 2002, 32, 481-494.	7.0	11
122	Analysis of Economic Time Series Using Narmax Polynomial Models. Studies in Computational Finance, 2002, , 213-235.	0.1	0
123	Structure-selection techniques applied to continuous-time nonlinear models. Physica D: Nonlinear Phenomena, 2001, 158, 1-18.	2.8	33
124	State space parsimonious reconstruction of attractor produced by an electronic oscillator. AIP Conference Proceedings, 2000, , .	0.4	1
125	Inductorless Chua's circuit. Electronics Letters, 2000, 36, 1915.	1.0	81
126	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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127	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
128	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
129	Time series analysis of monthly beef cattle prices with nonlinear autoregressive models. Applied Economics, 2000, 32, 265-275.	2.2	7
130	Investigation of determinism in heart rate variability. Chaos, 2000, 10, 398-410.	2.5	29
131	Nonlinear multivariable modeling and analysis of sleep apnea time series. Computers in Biology and Medicine, 1999, 29, 207-228.	7.0	20
132	Extended chaos control method applied to Chua circuit. Electronics Letters, 1999, 35, 768.	1.0	5
133	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
134	Cluster analysis of NARMAX models for signal-dependent systems. IET Control Theory and Applications, 1998, 145, 409-414.	1.7	24
135	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
136	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
137	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
138	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
139	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
140	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
141	Identification Techniques Applied to an Interacting Tank System. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 1997, 30, 541-546.	0.4	0
142	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
143	Recovering map static nonlinearities from chaotic data using dynamical models. Physica D: Nonlinear Phenomena, 1997, 100, 41-57.	2.8	13
144	Smoothing data with local instabilities for the identification of chaotic systems. International Journal of Control, 1996, 63, 483-505.	1.9	11

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145	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
146	Controllability and observability of linear systems: some noninvariant aspects. IEEE Transactions on Education, 1995, 38, 33-39.	2.4	37
147	Closed-loop suppression of chaos in nonlinear driven oscillators. Journal of Nonlinear Science, 1995, 5, 189-206.	2.1	13
148	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
149	Dynamical effects of overparametrization in nonlinear models. Physica D: Nonlinear Phenomena, 1995, 80, 26-40.	2.8	91
150	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
151	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
152	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
153	Algorithm for extended least-squares model reduction. Electronics Letters, 1995, 31, 1957-1959.	1.0	3
154	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
155	The least-squares PadÃ© method for model simplification of multivariable systems. International Journal of Systems Science, 1995, 26, 819-839.	5.5	1
156	Improved structure selection for nonlinear models based on term clustering. International Journal of Control, 1995, 62, 569-587.	1.9	101
157	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
158	Partial least-squares PadÃ© reduction with exact retention of poles and zeros. International Journal of Systems Science, 1994, 25, 2377-2391.	5.5	6
159	Model reduction via least-squares PadÃ© simplification of squared-magnitude functions. International Journal of Systems Science, 1994, 25, 1191-1204.	5.5	7
160	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
161	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
162	Term clustering and the order selection of linear continuous systems. Journal of the Franklin Institute, 1994, 331, 403-415.	3.4	2

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163	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
164	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
165	Designing controllers by means of model reduction techniques. Electronics Letters, 1993, 29, 389.	1.0	6
166	PID tuning based on model matching. Electronics Letters, 1992, 28, 2269-2271.	1.0	14
167	The least squares Padé method for model reduction. International Journal of Systems Science, 1992, 23, 1559-1570.	5.5	20
168	Open-loop model matching in frequency domain. Electronics Letters, 1992, 28, 484.	1.0	3
169	New algorithm for closed-loop model matching. Electronics Letters, 1991, 27, 2260.	1.0	9
170	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
171	A four fuel drum boiler combustion control system study and redesign. , 1990, , .		10
172	Quantitative measure of modal dominance for continuous systems. , 0, , .		19
173	The use of identified models in the control of a chaotic circuit. , 0, , .		0
174	Parameter estimation of a induction machine using a continuous time model. , 0, , .		11
175	Improved control of visually observed robotic agents based on autoregressive model prediction. , 0, , .		0
176	Data based dynamical modeling of vision observed small robots. , 0, , .		2
177	Resiliência de Sistemas Elétricos de Potência Representados por Redes de Kuramoto. , 0, , .		1
178	Celebrating 45 Years of the Brazilian Society of Automatics. Journal of Control, Automation and Electrical Systems, 0, , 1.	2.0	0
179	Input Design and Recommendations for the Identification of Hysteretic NARX Models. , 0, , .		0