Ling Xu

List of Publications by Year
in descending order

99	5,539	87723	82410
papers	**citations**	38	72
		h-index	**g-index**

99	99	99	1414
all docs	**docs citations**	**times ranked**	**citing authors**

#	ARTICLE	IF	CITATIONS
1	Microalgal bioreactors: Challenges and opportunities. Engineering in Life Sciences, 2009, 9, 178-189.	2.0	281
2	Parameter estimation and controller design for dynamic systems from the step responses based on the Newton iteration. Nonlinear Dynamics, 2015, 79, 2155-2163.	2.7	230
3	The damping iterative parameter identification method for dynamical systems based on the sine signal measurement. Signal Processing, 2016, 120, 660-667.	2.1	228
4	Hierarchical Parameter Estimation for the Frequency Response Based on the Dynamical Window Data. International Journal of Control, Automation and Systems, 2018, 16, 1756-1764.	1.6	191
5	Application of the Newton iteration algorithm to the parameter estimation for dynamical systems. Journal of Computational and Applied Mathematics, 2015, 288, 33-43.	1.1	157
6	Partially‐coupled least squares based iterative parameter estimation for multi‐variable output‐error‐like autoregressive moving average systems. IET Control Theory and Applications, 2019, 13, 3040-3051.	1.2	157
7	Decomposition based least squares iterative identification algorithm for multivariate pseudo-linear ARMA systems using the data filtering. Journal of the Franklin Institute, 2017, 354, 1321-1339.	1.9	147
8	The parameter estimation algorithms based on the dynamical response measurement data. Advances in Mechanical Engineering, 2017, 9, 168781401773000.	0.8	143
9	Highly computationally efficient state filter based on the delta operator. International Journal of Adaptive Control and Signal Processing, 2019, 33, 875-889.	2.3	143
10	A hierarchical least squares identification algorithm for Hammerstein nonlinear systems using the key term separation. Journal of the Franklin Institute, 2018, 355, 3737-3752.	1.9	140
11	Auxiliary model multiinnovation stochastic gradient parameter estimation methods for nonlinear sandwich systems. International Journal of Robust and Nonlinear Control, 2021, 31, 148-165.	2.1	137
12	A Recursive Parameter Estimation Algorithm for Modeling Signals with Multi-frequencies. Circuits, Systems, and Signal Processing, 2020, 39, 4198-4224.	1.2	137
13	Recursive Least Squares and Multi-innovation Stochastic Gradient Parameter Estimation Methods for Signal Modeling. Circuits, Systems, and Signal Processing, 2017, 36, 1735-1753.	1.2	136
14	A proportional differential control method for a time-delay system using the Taylor expansion approximation. Applied Mathematics and Computation, 2014, 236, 391-399.	1.4	133
15	Gradient estimation algorithms for the parameter identification of bilinear systems using the auxiliary model. Journal of Computational and Applied Mathematics, 2020, 369, 112575.	1.1	130
16	Separable Newton Recursive Estimation Method Through System Responses Based on Dynamically Discrete Measurements with Increasing Data Length. International Journal of Control, Automation and Systems, 2022, 20, 432-443.	1.6	128
17	Parameter estimation algorithms for dynamical response signals based on the multi‐innovation theory and the hierarchical principle. IET Signal Processing, 2017, 11, 228-237.	0.9	127
18	Combined state and parameter estimation for a bilinear state space system with moving average noise. Journal of the Franklin Institute, 2018, 355, 3079-3103.	1.9	124

#	ARTICLE	IF	CITATIONS
19	State filtering‐based least squares parameter estimation for bilinear systems using the hierarchical identification principle. IET Control Theory and Applications, 2018, 12, 1704-1713.	1.2	124
20	Performance analysis of the generalised projection identification for time‐varying systems. IET Control Theory and Applications, 2016, 10, 2506-2514.	1.2	121
21	Hierarchical recursive signal modeling for multifrequency signals based on discrete measured data. International Journal of Adaptive Control and Signal Processing, 2021, 35, 676-693.	2.3	119
22	A multi-innovation state and parameter estimation algorithm for a state space system with d-step state-delay. Signal Processing, 2017, 140, 97-103.	2.1	118
23	Separable Multi-innovation Newton Iterative Modeling Algorithm for Multi-frequency Signals Based on the Sliding Measurement Window. Circuits, Systems, and Signal Processing, 2022, 41, 805-830.	1.2	115
24	Parameter estimation for pseudo‐linear systems using the auxiliary model and the decomposition technique. IET Control Theory and Applications, 2017, 11, 390-400.	1.2	113
25	Joint state and multi-innovation parameter estimation for time-delay linear systems and its convergence based on the Kalman filtering. , 2017, 62, 211-223.		111
26	The innovation algorithms for multivariable state‐space models. International Journal of Adaptive Control and Signal Processing, 2019, 33, 1601-1618.	2.3	111
27	Iterative parameter identification for pseudo‐linear systems with ARMA noise using the filtering technique. IET Control Theory and Applications, 2018, 12, 892-899.	1.2	108
28	Hierarchical Newton and least squares iterative estimation algorithm for dynamic systems by transfer functions based on the impulse responses. International Journal of Systems Science, 2019, 50, 141-151.	3.7	104
29	Recursive parameter estimation methods and convergence analysis for a special class of nonlinear systems. International Journal of Robust and Nonlinear Control, 2020, 30, 1373-1393.	2.1	102
30	Parameter estimation for control systems based on impulse responses. International Journal of Control, Automation and Systems, 2017, 15, 2471-2479.	1.6	100
31	Iterative Parameter Estimation for Signal Models Based on Measured Data. Circuits, Systems, and Signal Processing, 2018, 37, 3046-3069.	1.2	98
32	Hierarchical Principle-Based Iterative Parameter Estimation Algorithm for Dual-Frequency Signals. Circuits, Systems, and Signal Processing, 2019, 38, 3251-3268.	1.2	96
33	Separable multi‐innovation stochastic gradient estimation algorithm for the nonlinear dynamic responses of systems. International Journal of Adaptive Control and Signal Processing, 2020, 34, 937-954.	2.3	83
34	Two‐stage gradient‐based iterative algorithms for the fractional‐order nonlinear systems by using the hierarchical identification principle. International Journal of Adaptive Control and Signal Processing, 2022, 36, 1778-1796.	2.3	75
35	Decomposition strategy-based hierarchical least mean square algorithm for control systems from the impulse responses. International Journal of Systems Science, 0, , 1-16.	3.7	69
36	Decomposition‐based multiinnovation gradient identification algorithms for a special bilinear system based on its input‐output representation. International Journal of Robust and Nonlinear Control, 2020, 30, 3607-3623.	2.1	67

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37	Nanofibrous scaffold prepared by electrospinning of poly(vinyl alcohol)/gelatin aqueous solutions. Journal of Applied Polymer Science, 2011, 121, 3047-3055.	1.3	54
38	Some new results of designing an IIR filter with colored noise for signal processing. , 2018, 72, 44-58.		53
39	Iterative identification algorithms for bilinear-in-parameter systems with autoregressive moving average noise. Journal of the Franklin Institute, 2017, 354, 7885-7898.	1.9	49
40	Separable Synchronous Multi-Innovation Gradient-Based Iterative Signal Modeling From On-Line Measurements. IEEE Transactions on Instrumentation and Measurement, 2022, 71, 1-13.	2.4	48
41	Model recovery for multi-input signal-output nonlinear systems based on the compressed sensing recovery theory. Journal of the Franklin Institute, 2022, 359, 2317-2339.	1.9	46
42	Expectation–maximization algorithm for bilinear systems by using the Rauch–Tung–Striebel smoother. Automatica, 2022, 142, 110365.	3.0	41
43	Separable Recursive Gradient Algorithm for Dynamical Systems Based on the Impulse Response Signals. International Journal of Control, Automation and Systems, 2020, 18, 3167-3177.	1.6	40
44	Hierarchical multi‐innovation generalised extended stochastic gradient methods for multivariable equation‐error autoregressive moving average systems. IET Control Theory and Applications, 2020, 14, 1276-1286.	1.2	38
45	Maximum Likelihood Recursive Identification for the Multivariate Equation-Error Autoregressive Moving Average Systems Using the Data Filtering. IEEE Access, 2019, 7, 41154-41163.	2.6	34
46	A Hierarchical Approach for Joint Parameter and State Estimation of a Bilinear System with Autoregressive Noise. Mathematics, 2019, 7, 356.	1.1	32
47	Gradient-based iterative identification method for multivariate equation-error autoregressive moving average systems using the decomposition technique. Journal of the Franklin Institute, 2019, 356, 1658-1676.	1.9	30
48	Extended Gradient-based Iterative Algorithm for Bilinear State-space Systems with Moving Average Noises by Using the Filtering Technique. International Journal of Control, Automation and Systems, 2021, 19, 1597-1606.	1.6	28
49	Development of an efficient electroflocculation technology integrated with dispersed‐air flotation for harvesting microalgae. Journal of Chemical Technology and Biotechnology, 2010, 85, 1504-1507.	1.6	26
50	Overall recursive least squares and overall stochastic gradient algorithms and their convergence for feedback nonlinear controlled autoregressive systems. International Journal of Robust and Nonlinear Control, 2022, 32, 5534-5554.	2.1	25
51	Two-Stage Attention-Based Model for Code Search with Textual and Structural Features. , 2021, , .		22
52	Maximum Likelihood-based Multi-innovation Stochastic Gradient Method for Multivariable Systems. International Journal of Control, Automation and Systems, 2019, 17, 565-574.	1.6	21
53	Partially coupled gradient estimation algorithm for multivariable equation‐error autoregressive moving average systems using the data filtering technique. IET Control Theory and Applications, 2019, 13, 642-650.	1.2	21
54	Transcriptional and epigenetic adaptation of maize chromosomes in Oat-Maize addition lines. Nucleic Acids Research, 2018, 46, 5012-5028.	6.5	19

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55	Highly efficient parameter estimation algorithms for Hammerstein non-linear systems. IET Control Theory and Applications, 2019, 13, 477-485.	1.2	17
56	Improving deep-learning-based fault localization with resampling. Journal of Software: Evolution and Process, 2021, 33, e2312.	1.2	17
57	A new filter-based stochastic gradient algorithm for dual-rate ARX models. International Journal of Adaptive Control and Signal Processing, 2018, 32, 1557-1568.	2.3	15
58	Improving Log-Based Anomaly Detection with Component-Aware Analysis. , 2020, , .		14
59	Data Filtering Based Multi-innovation Gradient Identification Methods for Feedback Nonlinear Systems. International Journal of Control, Automation and Systems, 2018, 16, 2225-2234.	1.6	12
60	Effect of anthraquinone-2,6-disulfonate (AQDS) on anaerobic digestion under ammonia stress: Triggering mediated interspecies electron transfer (MIET). Science of the Total Environment, 2022, 828, 154158.	3.9	12
61	Maximum likelihood-based gradient estimation for multivariable nonlinear systems using the multiinnovation identification theory. International Journal of Robust and Nonlinear Control, 2020, 30, 5446-5463.	2.1	11
62	Atom transfer radical polymerizations of styrene and butadiene as well as their copolymerization initiated by benzyl chloride / 1-octanol-substituted $MoCl_5$ / PPh3. Journal of Polymer Research, 2011, 18, 41-48.	1.2	10
63	Effect of Temperature on Chinese Rice Wine Brewing with High Concentration Presteamed Whole Sticky Rice. BioMed Research International, 2014, 2014, 1-8.	0.9	9
64	Fermentation Process Modeling with Levenberg-Marquardt Algorithm and Runge-Kutta Method on Ethanol Production by *Saccharomyces cerevisiae*. Mathematical Problems in Engineering, 2014, 2014, 1-10.	0.6	8
65	Maximum Likelihood-Based Recursive Least-Squares Algorithm for Multivariable Systems with Colored Noises Using the Decomposition Technique. Circuits, Systems, and Signal Processing, 2019, 38, 986-1004.	1.2	8
66	Maximum likelihood gradient-based iterative estimation for multivariable systems. IET Control Theory and Applications, 2019, 13, 1683-1691.	1.2	8
67	Correlation Analysis-based Stochastic Gradient and Least Squares Identification Methods for Errors-in-variables Systems Using the Multiinnovation. International Journal of Control, Automation and Systems, 2021, 19, 289-300.	1.6	8
68	Application of full permeate recycling to very high gravity ethanol fermentation from corn. Korean Journal of Chemical Engineering, 2009, 26, 719-723.	1.2	7
69	Data filtering based maximum likelihood extended gradient method for multivariable systems with autoregressive moving average noise. Journal of the Franklin Institute, 2018, 355, 3381-3398.	1.9	7
70	Iterative Parameter Estimation Algorithms for Dual-Frequency Signal Models. Algorithms, 2017, 10, 118.	1.2	6
71	Design of the PID controller for industrial processes based on the stability margin. , 2016, , .		5
72	Synthesis of C60-bonded polystyrene initiated with C60Cln/Ni(naph)2/P(Ph)3. Journal of Applied Polymer Science, 2005, 98, 1215-1218.	1.3	4

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73	Maximum likelihoodâ€based adaptive differential evolution identification algorithm for multivariable systems in the stateâ€space form. International Journal of Adaptive Control and Signal Processing, 2020, 34, 1658-1676.	2.3	4
74	Deep Learning Based Valid Bug Reports Determination and Explanation. , 2020, , .		4
75	Two-stage Recursive Least Squares Parameter Estimation Algorithm for Multivariate Output-error Autoregressive Moving Average Systems. International Journal of Control, Automation and Systems, 2019, 17, 1547-1557.	1.6	3
76	Data filtering based parameter estimation algorithms for multivariable Box-Jenkins-like systemsâˆ—âˆ—This work was supported by the National Natural Science Foundation of China and the PAPD of Jiangsu Higher Education Institutions. IFAC-PapersOnLine, 2015, 48, 849-852.	0.5	2
77	Newton iterative algorithm based modeling and proportional derivative controller design for second-order systems. Journal of Applied Mathematics and Computing, 2015, 49, 557-572.	1.2	2
78	Two-stage gradient-based iterative algorithm for bilinear stochastic systems over the moving data window. Journal of the Franklin Institute, 2020, 357, 11021-11041.	1.9	2
79	Parameter estimation for timeâ€delay systems based on the frequency responses and harmonic balance methods. International Journal of Adaptive Control and Signal Processing, 2020, 34, 1779-1798.	2.3	2
80	Data filteringâ€based recursive identification for an exponential autoregressive moving average model by using the multiâ€innovation theory. IET Control Theory and Applications, 2020, 14, 2526-2534.	1.2	2
81	Contextual-Semantic-Aware Linkable Knowledge Prediction in Stack Overflow via Self-Attention. , 2021, , .		2
82	The adaptive damping iterative parameter estimation algorithm for dynamical systems. , 2016, , .		1
83	Parameter identification method for process control systems based on the Newton iteration. , 2017, , .		1
84	The parameter identification method for the over-damping system based on the Newton iteration. , 2017, , .		1
85	Multi-innovation gradient parameter estimation algorithms for closed-loop Hammerstein nonlinear systems. , 2017, , .		1
86	Recursive least squares algorithm and stochastic gradient algorithm for feedback nonlinear equation-error systems. International Journal of Modelling, Identification and Control, 2019, 32, 251-257.	0.2	1
87	Convenient parameter estimation approaches for process control systems with time-delay via step responses. , 2020, , .		1
88	Parameter identification of a nonlinear radial basis functionâ€based stateâ€dependent autoregressive network with autoregressive noise via the filtering technique and the multiinnovation theory. International Journal of Robust and Nonlinear Control, 2020, 30, 7619-7634.	2.1	1
89	Four-Point Algebraic Estimation Method for First-Order Systems via Sine Responses. Lecture Notes in Electrical Engineering, 2020, , 620-627.	0.3	1
90	Newton iterative method for the system modeling based on the step responses signal to the multi-stage operational amplifier circuit. , 2015, , .		0

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91	The multi-innovation stochastic gradient method for double-frequency signals through dynamical sampled data. , 2018, , .		0
92	The Improved Multi-Innovation Parameter Estimation Algorithms for the Sine Signal Modeling with the Single-Frequency. , 2018, , .		0
93	The Self-Regulation Factor Iterative Parameter Identification Algorithm Based on the Measurement Data of Frequency Responses. , 2018, , .		0
94	The multi-innovation stochastic gradient method for multi-frequency signal models. , 2018, , .		0
95	The gradient and the Newton iterative modelling methods for an operational amplifier circuit. International Journal of Modelling, Identification and Control, 2019, 32, 212-218.	0.2	0
96	Algebraic parameter estimation approaches for process control systems from sine responses. , 2019, , .		0
97	Recursive parameter estimation methods based on gradient search for estimating system parameters of first-order inertial control systems. , 2021, , .		0
98	The Conjugate Gradient Algorithm forÂControl Systems with a Sine Excitation. Lecture Notes in Electrical Engineering, 2021, , 240-248.	0.3	0
99	Separable joint gradient-based iterative algorithm for multi-frequency sine signals. , 2021, , .		0