

# Ling Xu

## List of Publications by Citations

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84  
papers

3,794  
citations

34  
h-index

61  
g-index

99  
ext. papers

4,872  
ext. citations

2.9  
avg, IF

6.81  
L-index

#	Paper	IF	Citations
84	Microalgal bioreactors: Challenges and opportunities. <i>Engineering in Life Sciences</i> , <b>2009</b> , 9, 178-189	3.4	230
83	Parameter estimation and controller design for dynamic systems from the step responses based on the Newton iteration. <i>Nonlinear Dynamics</i> , <b>2015</b> , 79, 2155-2163	5	193
82	The damping iterative parameter identification method for dynamical systems based on the sine signal measurement. <i>Signal Processing</i> , <b>2016</b> , 120, 660-667	4.4	189
81	Hierarchical Parameter Estimation for the Frequency Response Based on the Dynamical Window Data. <i>International Journal of Control, Automation and Systems</i> , <b>2018</b> , 16, 1756-1764	2.9	158
80	Application of the Newton iteration algorithm to the parameter estimation for dynamical systems. <i>Journal of Computational and Applied Mathematics</i> , <b>2015</b> , 288, 33-43	2.4	132
79	The parameter estimation algorithms based on the dynamical response measurement data. <i>Advances in Mechanical Engineering</i> , <b>2017</b> , 9, 168781401773000	1.2	126
78	Decomposition based least squares iterative identification algorithm for multivariate pseudo-linear ARMA systems using the data filtering. <i>Journal of the Franklin Institute</i> , <b>2017</b> , 354, 1321-1339	4	124
77	A proportional differential control method for a time-delay system using the Taylor expansion approximation. <i>Applied Mathematics and Computation</i> , <b>2014</b> , 236, 391-399	2.7	117
76	Recursive Least Squares and Multi-innovation Stochastic Gradient Parameter Estimation Methods for Signal Modeling. <i>Circuits, Systems, and Signal Processing</i> , <b>2017</b> , 36, 1735-1753	2.2	115
75	Parameter estimation algorithms for dynamical response signals based on the multi-innovation theory and the hierarchical principle. <i>IET Signal Processing</i> , <b>2017</b> , 11, 228-237	1.7	110
74	Performance analysis of the generalised projection identification for time-varying systems. <i>IET Control Theory and Applications</i> , <b>2016</b> , 10, 2506-2514	2.5	109
73	A hierarchical least squares identification algorithm for Hammerstein nonlinear systems using the key term separation. <i>Journal of the Franklin Institute</i> , <b>2018</b> , 355, 3737-3752	4	108
72	State filtering-based least squares parameter estimation for bilinear systems using the hierarchical identification principle. <i>IET Control Theory and Applications</i> , <b>2018</b> , 12, 1704-1713	2.5	106
71	A multi-innovation state and parameter estimation algorithm for a state space system with d-step state-delay. <i>Signal Processing</i> , <b>2017</b> , 140, 97-103	4.4	104
70	Combined state and parameter estimation for a bilinear state space system with moving average noise. <i>Journal of the Franklin Institute</i> , <b>2018</b> , 355, 3079-3103	4	102
69	Parameter estimation for pseudo-linear systems using the auxiliary model and the decomposition technique. <i>IET Control Theory and Applications</i> , <b>2017</b> , 11, 390-400	2.5	102
68	Partially-coupled least squares based iterative parameter estimation for multi-variable output-error-like autoregressive moving average systems. <i>IET Control Theory and Applications</i> , <b>2019</b> , 13, 3040-3051	2.5	96

67	Gradient estimation algorithms for the parameter identification of bilinear systems using the auxiliary model. <i>Journal of Computational and Applied Mathematics</i> , <b>2020</b> , 369, 112575	2.4	96
66	Highly computationally efficient state filter based on the delta operator. <i>International Journal of Adaptive Control and Signal Processing</i> , <b>2019</b> , 33, 875-889	2.8	93
65	Joint state and multi-innovation parameter estimation for time-delay linear systems and its convergence based on the Kalman filtering <b>2017</b> , 62, 211-223		90
64	Iterative parameter identification for pseudo-linear systems with ARMA noise using the filtering technique. <i>IET Control Theory and Applications</i> , <b>2018</b> , 12, 892-899	2.5	89
63	Parameter estimation for control systems based on impulse responses. <i>International Journal of Control, Automation and Systems</i> , <b>2017</b> , 15, 2471-2479	2.9	88
62	The innovation algorithms for multivariable state-space models. <i>International Journal of Adaptive Control and Signal Processing</i> , <b>2019</b> , 33, 1601-1618	2.8	88
61	Iterative Parameter Estimation for Signal Models Based on Measured Data. <i>Circuits, Systems, and Signal Processing</i> , <b>2018</b> , 37, 3046-3069	2.2	83
60	Hierarchical Newton and least squares iterative estimation algorithm for dynamic systems by transfer functions based on the impulse responses. <i>International Journal of Systems Science</i> , <b>2019</b> , 50, 141-151	2.3	79
59	A Recursive Parameter Estimation Algorithm for Modeling Signals with Multi-frequencies. <i>Circuits, Systems, and Signal Processing</i> , <b>2020</b> , 39, 4198-4224	2.2	69
58	Hierarchical Principle-Based Iterative Parameter Estimation Algorithm for Dual-Frequency Signals. <i>Circuits, Systems, and Signal Processing</i> , <b>2019</b> , 38, 3251-3268	2.2	59
57	Decomposition-based multiinnovation gradient identification algorithms for a special bilinear system based on its input-output representation. <i>International Journal of Robust and Nonlinear Control</i> , <b>2020</b> , 30, 3607-3623	3.6	52
56	Separable multi-innovation stochastic gradient estimation algorithm for the nonlinear dynamic responses of systems. <i>International Journal of Adaptive Control and Signal Processing</i> , <b>2020</b> , 34, 937-954	2.8	51
55	Recursive parameter estimation methods and convergence analysis for a special class of nonlinear systems. <i>International Journal of Robust and Nonlinear Control</i> , <b>2020</b> , 30, 1373-1393	3.6	50
54	Some new results of designing an IIR filter with colored noise for signal processing <b>2018</b> , 72, 44-58		49
53	Iterative identification algorithms for bilinear-in-parameter systems with autoregressive moving average noise. <i>Journal of the Franklin Institute</i> , <b>2017</b> , 354, 7885-7898	4	47
52	Nanofibrous scaffold prepared by electrospinning of poly(vinyl alcohol)/gelatin aqueous solutions. <i>Journal of Applied Polymer Science</i> , <b>2011</b> , 121, 3047-3055	2.9	45
51	Auxiliary model multiinnovation stochastic gradient parameter estimation methods for nonlinear sandwich systems. <i>International Journal of Robust and Nonlinear Control</i> , <b>2021</b> , 31, 148-165	3.6	45
50	Maximum Likelihood Recursive Identification for the Multivariate Equation-Error Autoregressive Moving Average Systems Using the Data Filtering. <i>IEEE Access</i> , <b>2019</b> , 7, 41154-41163	3.5	32

49	Hierarchical recursive signal modeling for multifrequency signals based on discrete measured data. <i>International Journal of Adaptive Control and Signal Processing</i> , <b>2021</b> , 35, 676-693	2.8	32
48	Gradient-based iterative identification method for multivariate equation-error autoregressive moving average systems using the decomposition technique. <i>Journal of the Franklin Institute</i> , <b>2019</b> , 356, 1658-1676	4	29
47	Hierarchical multi-innovation generalised extended stochastic gradient methods for multivariable equation-error autoregressive moving average systems. <i>IET Control Theory and Applications</i> , <b>2020</b> , 14, 1276-1286	2.5	29
46	A Hierarchical Approach for Joint Parameter and State Estimation of a Bilinear System with Autoregressive Noise. <i>Mathematics</i> , <b>2019</b> , 7, 356	2.3	24
45	Decomposition strategy-based hierarchical least mean square algorithm for control systems from the impulse responses. <i>International Journal of Systems Science</i> , 1-16	2.3	22
44	Separable Recursive Gradient Algorithm for Dynamical Systems Based on the Impulse Response Signals. <i>International Journal of Control, Automation and Systems</i> , <b>2020</b> , 18, 3167-3177	2.9	20
43	Partially coupled gradient estimation algorithm for multivariable equation-error autoregressive moving average systems using the data filtering technique. <i>IET Control Theory and Applications</i> , <b>2019</b> , 13, 642-650	2.5	18
42	Maximum Likelihood-based Multi-innovation Stochastic Gradient Method for Multivariable Systems. <i>International Journal of Control, Automation and Systems</i> , <b>2019</b> , 17, 565-574	2.9	17
41	Separable Newton Recursive Estimation Method Through System Responses Based on Dynamically Discrete Measurements with Increasing Data Length. <i>International Journal of Control, Automation and Systems</i> , <b>2022</b> , 20, 432-443	2.9	16
40	Separable Multi-innovation Newton Iterative Modeling Algorithm for Multi-frequency Signals Based on the Sliding Measurement Window. <i>Circuits, Systems, and Signal Processing</i> , 1	2.2	16
39	Transcriptional and epigenetic adaptation of maize chromosomes in Oat-Maize addition lines. <i>Nucleic Acids Research</i> , <b>2018</b> , 46, 5012-5028	20.1	14
38	Extended Gradient-based Iterative Algorithm for Bilinear State-space Systems with Moving Average Noises by Using the Filtering Technique. <i>International Journal of Control, Automation and Systems</i> , <b>2021</b> , 19, 1597-1606	2.9	11
37	A new filter-based stochastic gradient algorithm for dual-rate ARX models. <i>International Journal of Adaptive Control and Signal Processing</i> , <b>2018</b> , 32, 1557-1568	2.8	11
36	Highly efficient parameter estimation algorithms for Hammerstein non-linear systems. <i>IET Control Theory and Applications</i> , <b>2019</b> , 13, 477-485	2.5	10
35	Atom transfer radical polymerizations of styrene and butadiene as well as their copolymerization initiated by benzyl chloride / 1-octanol-substituted MoCl <sub>5</sub> / PPh <sub>3</sub> . <i>Journal of Polymer Research</i> , <b>2011</b> , 18, 41-48	2.7	10
34	Effect of temperature on Chinese rice wine brewing with high concentration presteamed whole sticky rice. <i>BioMed Research International</i> , <b>2014</b> , 2014, 426929	3	7
33	Application of full permeate recycling to very high gravity ethanol fermentation from corn. <i>Korean Journal of Chemical Engineering</i> , <b>2009</b> , 26, 719-723	2.8	7
32	Data Filtering Based Multi-innovation Gradient Identification Methods for Feedback Nonlinear Systems. <i>International Journal of Control, Automation and Systems</i> , <b>2018</b> , 16, 2225-2234	2.9	7

31	Maximum Likelihood-Based Recursive Least-Squares Algorithm for Multivariable Systems with Colored Noises Using the Decomposition Technique. <i>Circuits, Systems, and Signal Processing</i> , <b>2019</b> , 38, 986-1004	2.2	6
30	Maximum likelihood-based gradient estimation for multivariable nonlinear systems using the multiinnovation identification theory. <i>International Journal of Robust and Nonlinear Control</i> , <b>2020</b> , 30, 5446-5463	3.6	5
29	Development of an efficient electroflocculation technology integrated with dispersed-air flotation for harvesting microalgae. <i>Journal of Chemical Technology and Biotechnology</i> , <b>2010</b> , 85, n/a-n/a	3.5	5
28	Correlation Analysis-based Stochastic Gradient and Least Squares Identification Methods for Errors-in-variables Systems Using the Multiinnovation. <i>International Journal of Control, Automation and Systems</i> , <b>2021</b> , 19, 289-300	2.9	5
27	Separable Synchronous Multi-Innovation Gradient-Based Iterative Signal Modeling From On-Line Measurements. <i>IEEE Transactions on Instrumentation and Measurement</i> , <b>2022</b> , 71, 1-13	5.2	5
26	Maximum likelihood gradient-based iterative estimation for multivariable systems. <i>IET Control Theory and Applications</i> , <b>2019</b> , 13, 1683-1691	2.5	4
25	Fermentation Process Modeling with Levenberg-Marquardt Algorithm and Runge-Kutta Method on Ethanol Production by <i>Saccharomyces cerevisiae</i> . <i>Mathematical Problems in Engineering</i> , <b>2014</b> , 2014, 1-10 <sup>1.1</sup>		4
24	Iterative Parameter Estimation Algorithms for Dual-Frequency Signal Models. <i>Algorithms</i> , <b>2017</b> , 10, 118	1.8	3
23	Data filtering based maximum likelihood extended gradient method for multivariable systems with autoregressive moving average noise. <i>Journal of the Franklin Institute</i> , <b>2018</b> , 355, 3381-3398	4	3
22	Improving deep-learning-based fault localization with resampling. <i>Journal of Software: Evolution and Process</i> , <b>2021</b> , 33, e2312	1	3
21	Design of the PID controller for industrial processes based on the stability margin <b>2016</b> ,		2
20	Data filtering based parameter estimation algorithms for multivariable Box-Jenkins-like systems. <i>IFAC-PapersOnLine</i> , <b>2015</b> , 48, 849-852	0.7	2
19	Synthesis of C60-bonded polystyrene initiated with C60Cl <sub>n</sub> /Ni(naph) <sub>2</sub> /P(Ph) <sub>3</sub> . <i>Journal of Applied Polymer Science</i> , <b>2005</b> , 98, 1215-1218	2.9	2
18	Model recovery for multi-input signal-output nonlinear systems based on the compressed sensing recovery theory. <i>Journal of the Franklin Institute</i> , <b>2022</b> ,	4	2
17	Improving Log-Based Anomaly Detection with Component-Aware Analysis <b>2020</b> ,		2
16	Maximum likelihood-based adaptive differential evolution identification algorithm for multivariable systems in the state-space form. <i>International Journal of Adaptive Control and Signal Processing</i> , <b>2020</b> , 34, 1658-1676	2.8	2
15	Newton iterative algorithm based modeling and proportional derivative controller design for second-order systems. <i>Journal of Applied Mathematics and Computing</i> , <b>2015</b> , 49, 557-572	1.8	1
14	Parameter identification method for process control systems based on the Newton iteration <b>2017</b> ,		1

13	The parameter identification method for the over-damping system based on the Newton iteration <b>2017</b> ,			1
12	Multi-innovation gradient parameter estimation algorithms for closed-loop Hammerstein nonlinear systems <b>2017</b> ,			1
11	Data filtering-based recursive identification for an exponential autoregressive moving average model by using the multi-innovation theory. <i>IET Control Theory and Applications</i> , <b>2020</b> , 14, 2526-2534	2.5		1
10	Two-stage gradient-based iterative algorithm for bilinear stochastic systems over the moving data window. <i>Journal of the Franklin Institute</i> , <b>2020</b> , 357, 11021-11041	4		1
9	Parameter identification of a nonlinear radial basis function-based state-dependent autoregressive network with autoregressive noise via the filtering technique and the multiinnovation theory. <i>International Journal of Robust and Nonlinear Control</i> , <b>2020</b> , 30, 7619-7634	3.6		1
8	Recursive least squares algorithm and stochastic gradient algorithm for feedback nonlinear equation-error systems. <i>International Journal of Modelling, Identification and Control</i> , <b>2019</b> , 32, 251-257	0.6		1
7	Expectation-maximization algorithm for bilinear systems by using the Rauch-Tung-Striebel smoother. <i>Automatica</i> , <b>2022</b> , 142, 110365	5.7		1
6	Two-stage Recursive Least Squares Parameter Estimation Algorithm for Multivariate Output-error Autoregressive Moving Average Systems. <i>International Journal of Control, Automation and Systems</i> , <b>2019</b> , 17, 1547-1557	2.9		0
5	Parameter estimation for time-delay systems based on the frequency responses and harmonic balance methods. <i>International Journal of Adaptive Control and Signal Processing</i> , <b>2020</b> , 34, 1779-1798	2.8		0
4	Four-Point Algebraic Estimation Method for First-Order Systems via Sine Responses. <i>Lecture Notes in Electrical Engineering</i> , <b>2020</b> , 620-627	0.2		0
3	Effect of anthraquinone-2,6-disulfonate (AQDS) on anaerobic digestion under ammonia stress: Triggering mediated interspecies electron transfer (MIET).. <i>Science of the Total Environment</i> , <b>2022</b> , 154158	10.2		0
2	The Conjugate Gradient Algorithm for Control Systems with a Sine Excitation. <i>Lecture Notes in Electrical Engineering</i> , <b>2021</b> , 240-248	0.2		
1	The gradient and the Newton iterative modelling methods for an operational amplifier circuit. <i>International Journal of Modelling, Identification and Control</i> , <b>2019</b> , 32, 212-218	0.6		