Ling Xu

List of Publications by Year in Descending Order

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	Model recovery for multi-input signal-output nonlinear systems based on the compressed sensing recovery theory. *Journal of the Franklin Institute*, **2022**,	4	2
83	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	2.9	16
82	Separable Synchronous Multi-Innovation Gradient-Based Iterative Signal Modeling From On-Line Measurements. *IEEE Transactions on Instrumentation and Measurement*, **2022**, 71, 1-13	5.2	5
81	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**, 154158	10.2	0
80	Expectation maximization algorithm for bilinear systems by using the Rauch Tung Striebel smoother. *Automatica*, **2022**, 142, 110365	5.7	1
79	The Conjugate Gradient Algorithm for Control Systems with a Sine Excitation. *Lecture Notes in Electrical Engineering*, **2021**, 240-248	0.2	
78	Hierarchical recursive signal modeling for multifrequency signals based on discrete measured data. *International Journal of Adaptive Control and Signal Processing*, **2021**, 35, 676-693	2.8	32
77	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	2.9	5
76	Auxiliary model multiinnovation stochastic gradient parameter estimation methods for nonlinear sandwich systems. *International Journal of Robust and Nonlinear Control*, **2021**, 31, 148-165	3.6	45
75	Improving deep-learning-based fault localization with resampling. *Journal of Software: Evolution and Process*, **2021**, 33, e2312	1	3
74	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	2.9	11
73	Parameter estimation for time-delay systems based on the frequency responses and harmonic balance methods. *International Journal of Adaptive Control and Signal Processing*, **2020**, 34, 1779-1798	2.8	0
72	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	3.6	5
71	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	3.6	52
70	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	2.8	51
69	Improving Log-Based Anomaly Detection with Component-Aware Analysis **2020**,		2
68	Data filtering-based recursive identification for an exponential autoregressive moving average model by using the multi-innovation theory. *IET Control Theory and Applications*, **2020**, 14, 2526-2534	2.5	1

67	Four-Point Algebraic Estimation Method for First-Order Systems via Sine Responses. *Lecture Notes in Electrical Engineering*, **2020**, 620-627	0.2	0
66	A Recursive Parameter Estimation Algorithm for Modeling Signals with Multi-frequencies. *Circuits, Systems, and Signal Processing*, **2020**, 39, 4198-4224	2.2	69
65	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	2.5	29
64	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	3.6	50
63	Gradient estimation algorithms for the parameter identification of bilinear systems using the auxiliary model. *Journal of Computational and Applied Mathematics*, **2020**, 369, 112575	2.4	96
62	Two-stage gradient-based iterative algorithm for bilinear stochastic systems over the moving data window. *Journal of the Franklin Institute*, **2020**, 357, 11021-11041	4	1
61	Maximum likelihood-based adaptive differential evolution identification algorithm for multivariable systems in the state-space form. *International Journal of Adaptive Control and Signal Processing*, **2020**, 34, 1658-1676	2.8	2
60	Separable Recursive Gradient Algorithm for Dynamical Systems Based on the Impulse Response Signals. *International Journal of Control, Automation and Systems*, **2020**, 18, 3167-3177	2.9	20
59	Parameter identification of a nonlinear radial basis function-based state-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	3.6	1
58	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	2.9	0
57	A Hierarchical Approach for Joint Parameter and State Estimation of a Bilinear System with Autoregressive Noise. *Mathematics*, **2019**, 7, 356	2.3	24
56	Highly computationally efficient state filter based on the delta operator. *International Journal of Adaptive Control and Signal Processing*, **2019**, 33, 875-889	2.8	93
55	Maximum Likelihood Recursive Identification for the Multivariate Equation-Error Autoregressive Moving Average Systems Using the Data Filtering. *IEEE Access*, **2019**, 7, 41154-41163	3.5	32
54	Highly efficient parameter estimation algorithms for Hammerstein non-linear systems. *IET Control Theory and Applications*, **2019**, 13, 477-485	2.5	10
53	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	4	29
52	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	2.2	6
51	Maximum likelihood gradient-based iterative estimation for multivariable systems. *IET Control Theory and Applications*, **2019**, 13, 1683-1691	2.5	4
50	The innovation algorithms for multivariable state-space models. *International Journal of Adaptive Control and Signal Processing*, **2019**, 33, 1601-1618	2.8	88

49	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	2.5	18
48	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	2.5	96
47	Maximum Likelihood-based Multi-innovation Stochastic Gradient Method for Multivariable Systems. *International Journal of Control, Automation and Systems*, **2019**, 17, 565-574	2.9	17
46	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	0.6	1
45	The gradient and the Newton iterative modelling methods for an operational amplifier circuit. *International Journal of Modelling, Identification and Control*, **2019**, 32, 212-218	0.6	
44	Hierarchical Principle-Based Iterative Parameter Estimation Algorithm for Dual-Frequency Signals. *Circuits, Systems, and Signal Processing*, **2019**, 38, 3251-3268	2.2	59
43	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	2.3	79
42	A hierarchical least squares identification algorithm for Hammerstein nonlinear systems using the key term separation. *Journal of the Franklin Institute*, **2018**, 355, 3737-3752	4	108
41	Iterative parameter identification for pseudo-linear systems with ARMA noise using the filtering technique. *IET Control Theory and Applications*, **2018**, 12, 892-899	2.5	89
40	Combined state and parameter estimation for a bilinear state space system with moving average noise. *Journal of the Franklin Institute*, **2018**, 355, 3079-3103	4	102
39	Transcriptional and epigenetic adaptation of maize chromosomes in Oat-Maize addition lines. *Nucleic Acids Research*, **2018**, 46, 5012-5028	20.1	14
38	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	4	3
37	Some new results of designing an IIR filter with colored noise for signal processing **2018**, 72, 44-58		49
36	State filtering-based least squares parameter estimation for bilinear systems using the hierarchical identification principle. *IET Control Theory and Applications*, **2018**, 12, 1704-1713	2.5	106
35	Iterative Parameter Estimation for Signal Models Based on Measured Data. *Circuits, Systems, and Signal Processing*, **2018**, 37, 3046-3069	2.2	83
34	Data Filtering Based Multi-innovation Gradient Identification Methods for Feedback Nonlinear Systems. *International Journal of Control, Automation and Systems*, **2018**, 16, 2225-2234	2.9	7
33	A new filter-based stochastic gradient algorithm for dual-rate ARX models. *International Journal of Adaptive Control and Signal Processing*, **2018**, 32, 1557-1568	2.8	11
32	Hierarchical Parameter Estimation for the Frequency Response Based on the Dynamical Window Data. *International Journal of Control, Automation and Systems*, **2018**, 16, 1756-1764	2.9	158

31	Parameter estimation algorithms for dynamical response signals based on the multi-innovation theory and the hierarchical principle. *IET Signal Processing*, **2017**, 11, 228-237	1.7	110
30	A multi-innovation state and parameter estimation algorithm for a state space system with d-step state-delay. *Signal Processing*, **2017**, 140, 97-103	4.4	104
29	Joint state and multi-innovation parameter estimation for time-delay linear systems and its convergence based on the Kalman filtering **2017**, 62, 211-223		90
28	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	4	124
27	Iterative identification algorithms for bilinear-in-parameter systems with autoregressive moving average noise. *Journal of the Franklin Institute*, **2017**, 354, 7885-7898	4	47
26	Parameter estimation for control systems based on impulse responses. *International Journal of Control, Automation and Systems*, **2017**, 15, 2471-2479	2.9	88
25	Iterative Parameter Estimation Algorithms for Dual-Frequency Signal Models. *Algorithms*, **2017**, 10, 118	1.8	3
24	Parameter identification method for process control systems based on the Newton iteration **2017**,		1
23	The parameter identification method for the over-damping system based on the Newton iteration **2017**,		1
22	Multi-innovation gradient parameter estimation algorithms for closed-loop Hammerstein nonlinear systems **2017**,		1
21	Parameter estimation for pseudo-linear systems using the auxiliary model and the decomposition technique. *IET Control Theory and Applications*, **2017**, 11, 390-400	2.5	102
20	Recursive Least Squares and Multi-innovation Stochastic Gradient Parameter Estimation Methods for Signal Modeling. *Circuits, Systems, and Signal Processing*, **2017**, 36, 1735-1753	2.2	115
19	The parameter estimation algorithms based on the dynamical response measurement data. *Advances in Mechanical Engineering*, **2017**, 9, 168781401773000	1.2	126
18	Design of the PID controller for industrial processes based on the stability margin **2016**,		2
17	The damping iterative parameter identification method for dynamical systems based on the sine signal measurement. *Signal Processing*, **2016**, 120, 660-667	4.4	189
16	Performance analysis of the generalised projection identification for time-varying systems. *IET Control Theory and Applications*, **2016**, 10, 2506-2514	2.5	109
15	Parameter estimation and controller design for dynamic systems from the step responses based on the Newton iteration. *Nonlinear Dynamics*, **2015**, 79, 2155-2163	5	193
14	Newton iterative algorithm based modeling and proportional derivative controller design for second-order systems. *Journal of Applied Mathematics and Computing*, **2015**, 49, 557-572	1.8	1

13	Application of the Newton iteration algorithm to the parameter estimation for dynamical systems. *Journal of Computational and Applied Mathematics*, **2015**, 288, 33-43	2.4	132
12	Data filtering based parameter estimation algorithms for multivariable Box-Jenkins-like systems. *IFAC-PapersOnLine*, **2015**, 48, 849-852	0.7	2
11	A proportional differential control method for a time-delay system using the Taylor expansion approximation. *Applied Mathematics and Computation*, **2014**, 236, 391-399	2.7	117
10	Effect of temperature on Chinese rice wine brewing with high concentration presteamed whole sticky rice. *BioMed Research International*, **2014**, 2014, 426929	3	7
9	Fermentation Process Modeling with Levenberg-Marquardt Algorithm and Runge-Kutta Method on Ethanol Production bySaccharomyces cerevisiae. *Mathematical Problems in Engineering*, **2014**, 2014, 1-10	1.1	4
8	Atom transfer radical polymerizations of styrene and butadiene as well as their copolymerization initiated by benzyl chloride / 1-octanol-substituted MoCl5 / PPh3. *Journal of Polymer Research*, **2011**, 18, 41-48	2.7	10
7	Nanofibrous scaffold prepared by electrospinning of poly(vinyl alcohol)/gelatin aqueous solutions. *Journal of Applied Polymer Science*, **2011**, 121, 3047-3055	2.9	45
6	Development of an efficient electroflocculation technology integrated with dispersed-air flotation for harvesting microalgae. *Journal of Chemical Technology and Biotechnology*, **2010**, 85, n/a-n/a	3.5	5
5	Application of full permeate recycling to very high gravity ethanol fermentation from corn. *Korean Journal of Chemical Engineering*, **2009**, 26, 719-723	2.8	7
4	Microalgal bioreactors: Challenges and opportunities. *Engineering in Life Sciences*, **2009**, 9, 178-189	3.4	230
3	Synthesis of C60-bonded polystyrene initiated with C60Cln/Ni(naph)2/P(Ph)3. *Journal of Applied Polymer Science*, **2005**, 98, 1215-1218	2.9	2
2	Separable Multi-innovation Newton Iterative Modeling Algorithm for Multi-frequency Signals Based on the Sliding Measurement Window. *Circuits, Systems, and Signal Processing*,1	2.2	16
1	Decomposition strategy-based hierarchical least mean square algorithm for control systems from the impulse responses. *International Journal of Systems Science*,1-16	2.3	22