Quanmin Zhu

List of Publications by Year
in descending order

124 papers	2,605 citations	186265 28 h-index	223800 46 g-index
124 all docs	124 docs citations	124 times ranked	1702 citing authors

#	Article	IF	Citations
1	A framework of neural networks based consensus control for multiple robotic manipulators. Neurocomputing, 2014, 140, 8-18.	5.9	127
2	Performance analysis of the generalised projection identification for time‐varying systems. IET Control Theory and Applications, 2016, 10, 2506-2514.	2.1	121
3	Modified Kalman filtering based multi-step-length gradient iterative algorithm for ARX models with random missing outputs. Automatica, 2020, 118, 109034.	5.0	106
4	Robust adaptive sliding mode control for uncertain discrete-time systems with time delay. Journal of the Franklin Institute, 2010, 347, 339-357.	3.4	104
5	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.	5.5	104
6	A real-time EMG pattern recognition method for virtual myoelectric hand control. Neurocomputing, 2014, 136, 345-355.	5.9	103
7	Stable Adaptive Neurocontrol for Nonlinear Discrete-Time Systems. IEEE Transactions on Neural Networks, 2004, 15, 653-662.	4.2	84
8	Synchronized control with neuro-agents for leader–follower based multiple robotic manipulators. Neurocomputing, 2014, 124, 149-161.	5.9	71
9	Decomposition strategy-based hierarchical least mean square algorithm for control systems from the impulse responses. International Journal of Systems Science, 0, , 1-16.	5.5	69
10	Identification and U‐control of a state‐space system with time‐delay. International Journal of Adaptive Control and Signal Processing, 2022, 36, 138-154.	4.1	57
11	Adaptive synchronised tracking control for multiple robotic manipulators with uncertain kinematics and dynamics. International Journal of Systems Science, 2016, 47, 791-804.	5.5	56
12	Super-Twisting Sliding Mode Control for Gearless PMSG-Based Wind Turbine. Complexity, 2019, 2019, 1-15.	1.6	56
13	Review of rational (total) nonlinear dynamic system modelling, identification, and control. International Journal of Systems Science, 2015, 46, 2122-2133.	5.5	55
14	Terminal sliding mode control for continuous stirred tank reactor. Chemical Engineering Research and Design, 2015, 94, 266-274.	5.6	54
15	Sliding mode control technique for multi-switching synchronization of chaotic systems. , 2017, , .		54
16	A back propagation algorithm to estimate the parameters of non-linear dynamic rational models. Applied Mathematical Modelling, 2003, 27, 169-187.	4.2	53
17	Output Feedback Terminal Sliding Mode Control for a Class of Second Order Nonlinear Systems. Asian Journal of Control, 2013, 15, 237-247.	3.0	50
18	Position synchronised control of multiple robotic manipulators based on integral sliding mode. International Journal of Systems Science, 2014, 45, 556-570.	5.5	48

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19	Separable Synchronous Multi-Innovation Gradient-Based Iterative Signal Modeling From On-Line Measurements. IEEE Transactions on Instrumentation and Measurement, 2022, 71, 1-13.	4.7	48
20	Moving Horizon State Estimation for Networked Control Systems With Multiple Packet Dropouts. IEEE Transactions on Automatic Control, 2012, 57, 2360-2366.	5.7	46
21	Decomposition-based recursive least squares identification methods for multivariate pseudo-linear systems using the multi-innovation. International Journal of Systems Science, 2018, 49, 920-928.	5.5	46
22	A Correlation-Test-Based Validation Procedure for Identified Neural Networks. IEEE Transactions on Neural Networks, 2009, 20, 1-13.	4.2	43
23	A general U-block model-based design procedure for nonlinear polynomial control systems. International Journal of Systems Science, 2016, 47, 3465-3475.	5.5	42
24	Bias compensation€based parameter and state estimation for a class of time€delay non€linear state€space models. IET Control Theory and Applications, 2020, 14, 2176-2185.	2.1	41
25	A globally consistent nonlinear least squares estimator for identification of nonlinear rational systems. Automatica, 2017, 77, 322-335.	5.0	40
26	Interval Error Correction Auxiliary Model Based Gradient Iterative Algorithms for Multirate ARX Models. IEEE Transactions on Automatic Control, 2020, 65, 4385-4392.	5.7	36
27	U-model based predictive control for nonlinear processes with input delay. Journal of Process Control, 2019, 75, 156-170.	3.3	32
28	Marker-Based Multi-Sensor Fusion Indoor Localization System for Micro Air Vehicles. Sensors, 2018, 18, 1706.	3.8	31
29	Biased compensation recursive least squares-based threshold algorithm for time-delay rational models via redundant rule. Nonlinear Dynamics, 2018, 91, 797-807.	5.2	31
30	U-neural network-enhanced control of nonlinear dynamic systems. Neurocomputing, 2019, 352, 12-21.	5.9	29
31	Guaranteed Performance Design for Formation Tracking and Collision Avoidance of Multiple USVs With Disturbances and Unmodeled Dynamics. IEEE Systems Journal, 2021, 15, 4346-4357.	4.6	29
32	Multi-step-length gradient iterative algorithm for equation-error type models. Systems and Control Letters, 2018, 115, 15-21.	2.3	28
33	Complete model-free sliding mode control (CMFSMC). Scientific Reports, 2021, 11, 22565.	3.3	28
34	Development of omni-directional correlation functions for nonlinear model validation. Automatica, 2007, 43, 1519-1531.	5.0	27
35	A generalized indirect adaptive neural networks backstepping control procedure for a class of non-affine nonlinear systems with pure-feedback prototype. Neurocomputing, 2013, 121, 131-139.	5.9	27
36	Adaptive sliding mode control for MIMO nonlinear systems based on fuzzy logic scheme. International Journal of Automation and Computing, 2004, 1, 51-62.	4.5	26

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37	Gradient-Based Particle Filter Algorithm for an ARX Model With Nonlinear Communication Output. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2020, 50, 2198-2207.	9.3	26
38	A data-driven optimal control approach for solution purification process. Journal of Process Control, 2018, 68, 171-185.	3.3	24
39	Ultrasonic measurement of contact stiffness and pressure distribution on spindle–holder taper interfaces. International Journal of Machine Tools and Manufacture, 2015, 97, 18-28.	13.4	23
40	A new result on observer-based sliding mode control design for a class of uncertain It$\hat{o}$ stochastic delay systems. Journal of the Franklin Institute, 2017, 354, 8200-8216.	3.4	22
41	A new TSMC prototype robust nonlinear task space control of a 6 DOF parallel robotic manipulator. International Journal of Control, Automation and Systems, 2010, 8, 1189-1197.	2.7	21
42	Control of Complex Nonlinear Dynamic Rational Systems. Complexity, 2018, 2018, 1-12.	1.6	20
43	Neural Computing Enhanced Parameter Estimation for Multi-Input and Multi-Output Total Non-Linear Dynamic Models. Entropy, 2020, 22, 510.	2.2	20
44	An enhanced linear Kalman filter (EnLKF) algorithm for parameter estimation of nonlinear rational models. International Journal of Systems Science, 2017, 48, 451-461.	5.5	19
45	Improved gradient descent algorithms for time-delay rational state-space systems: intelligent search method and momentum method. Nonlinear Dynamics, 2020, 101, 361-373.	5.2	18
46	Adaptive Finite-Time Stabilization of Chaotic Flow with a Single Unstable Node Using a Nonlinear Function-Based Global Sliding Mode. Iranian Journal of Science and Technology - Transactions of Electrical Engineering, 2019, 43, 339-347.	2.3	17
47	Multidirection Gradient Iterative Algorithm: A Unified Framework for Gradient Iterative and Least Squares Algorithms. IEEE Transactions on Automatic Control, 2022, 67, 6770-6777.	5.7	15
48	Aitken based modified Kalman filtering stochastic gradient algorithm for dual-rate nonlinear models. Journal of the Franklin Institute, 2019, 356, 4732-4746.	3.4	14
49	U-Model-Based Two-Degree-of-Freedom Internal Model Control of Nonlinear Dynamic Systems. Entropy, 2021, 23, 169.	2.2	14
50	Neural Network Based Switching State Selection for Direct Power Control of Three Phase PWM-Rectifier. , 2018, , .		13
51	Robust Adaptive Finite-Time Parameter Estimation for Nonlinearly Parameterized Nonlinear Systems. , 2018, , .		13
52	A generalized procedure in designing recurrent neural network identification and control of time-varying-delayed nonlinear dynamic systems. Neurocomputing, 2010, 73, 1376-1383.	5.9	12
53	Moving Horizon Scheduling for Networked Control Systems with Communication Constraints. IEEE Transactions on Industrial Electronics, 2012, , 1-1.	7.9	12
54	Design of sliding-mode observer for a class of uncertain neutral stochastic systems. International Journal of Systems Science, 2017, 48, 1380-1394.	5.5	11

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55	State filtering and parameter estimation for two‐input two‐output systems with time delay. IET Control Theory and Applications, 2021, 15, 2053-2066.	2.1	11
56	Identification of Wiener systems based on the variable forgetting factor multierror stochastic gradient and the key term separation. International Journal of Adaptive Control and Signal Processing, 2021, 35, 2537-2549.	4.1	11
57	Robust Variable-Step Perturb-and-Observe Sliding Mode Controller for Grid-Connected Wind-Energy-Conversion Systems. Entropy, 2022, 24, 731.	2.2	11
58	Global convergence of the EM algorithm for ARX models with uncertain communication channels. Systems and Control Letters, 2020, 136, 104614.	2.3	10
59	An extended state observer based U-model control of the COVID-19. ISA Transactions, 2022, 124, 115-123.	5.7	10
60	Robust Stabilization and Synchronization of a Novel Chaotic System with Input Saturation Constraints. Entropy, 2021, 23, 1110.	2.2	10
61	A new configuration of composite nonlinear feedback control for nonlinear systems with input saturation. JVC/Journal of Vibration and Control, 2023, 29, 1417-1430.	2.6	10
62	Memoryless variable structure control for affine nonlinear systems using only output information. International Journal of Robust and Nonlinear Control, 2015, 25, 3316-3329.	3.7	9
63	Homeomorphism Mapping Based Neural Networks for Finite Time Constraint Control of a Class of Nonaffine Pure-Feedback Nonlinear Systems. Complexity, 2019, 2019, 1-11.	1.6	9
64	Algorithms for U-Model-Based Dynamic Inversion (UM-Dynamic Inversion) for Continuous Time Control Systems. Complexity, 2020, 2020, 1-14.	1.6	9
65	Time-Delay Systems: Modeling, Analysis, Estimation, Control, and Synchronization. Mathematical Problems in Engineering, 2017, 2017, 1-3.	1.1	8
66	A New Hydraulic Speed Regulation Scheme: Valve-Pump Parallel Variable Mode Control. IEEE Access, 2018, 6, 55257-55263.	4.2	8
67	U-Model and U-Control Methodology for Nonlinear Dynamic Systems. Complexity, 2020, 2020, 1-13.	1.6	8
68	Robust Standard Gradient Descent Algorithm for ARX Models Using Aitken Acceleration Technique. IEEE Transactions on Cybernetics, 2022, 52, 9646-9655.	9.5	8
69	Augmented flexible least squares algorithm for time‐varying parameter systems. International Journal of Robust and Nonlinear Control, 2022, 32, 3549-3567.	3.7	8
70	Bias compensation recursive algorithm for dual‐rate rational models. IET Control Theory and Applications, 2018, 12, 2184-2193.	2.1	7
71	Decentralized adaptive force/position control of reconfigurable manipulator based on soft sensors. Proceedings of the Institution of Mechanical Engineers Part I: Journal of Systems and Control Engineering, 2018, 232, 1260-1271.	1.0	7
72	Towards neural adaptive hovering control of helicopters. , 0, , .		6

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73	Coordinated Control of a Wind-Methanol-Fuel Cell System with Hydrogen Storage. Energies, 2017, 10, 2053.	3.1	6
74	Convergence Time Calculation for Supertwisting Algorithm and Application for Nonaffine Nonlinear Systems. Complexity, 2019, 2019, 1-15.	1.6	6
75	Maximum likelihood iterative identification approaches for multivariable equation-error moving average systems. International Journal of Systems Science, 2020, 51, 3285-3298.	5.5	6
76	Weighted Multiple-Model Neural Network Adaptive Control for Robotic Manipulators with Jumping Parameters. Complexity, 2020, 2020, 1-12.	1.6	6
77	Reinforced adaptive parameter estimation with prescribed transient convergence performance. Systems and Control Letters, 2021, 149, 104880.	2.3	6
78	Accelerated Gradient Descent Estimation for Rational Models by Using Volterra Series: Structure Identification and Parameter Estimation. IEEE Transactions on Circuits and Systems II: Express Briefs, 2022, 69, 1497-1501.	3.0	6
79	Disturbance-Observer-Based U-Control (DOBUC) for Nonlinear Dynamic Systems. Entropy, 2021, 23, 1625.	2.2	6
80	Recursive identification for multivariate autoregressive equation-error systems with autoregressive noise. International Journal of Systems Science, 2018, 49, 2763-2775.	5.5	5
81	Maximum likelihood based identification methods for rational models. International Journal of Systems Science, 2019, 50, 2579-2591.	5.5	5
82	U-model based Control Design Framework for Continuous-Time Systems. , 2019, , .		5
83	A generalized minimal residual based iterative back propagation algorithm for polynomial nonlinear models. Systems and Control Letters, 2021, 153, 104966.	2.3	5
84	A two-step co-evolutionary particle swarm optimization approach for CO_2 pipeline design with multiple uncertainties. Carbon Management, 2018, 9, 333-346.	2.4	5
85	Varying Infimum Gradient Descent Algorithm for Agent-Sever Systems Using Different Order Iterative Preconditioning Methods. IEEE Transactions on Industrial Informatics, 2022, 18, 4436-4446.	11.3	5
86	U-model-based double sliding mode control (UDSM-control) of nonlinear dynamic systems. International Journal of Systems Science, 0, , 1-17.	5.5	5
87	Robust adaptive sliding mode control strategy of uncertain nonlinear systems. Proceedings of the Institution of Mechanical Engineers, Part G: Journal of Aerospace Engineering, 2023, 237, 62-74.	1.3	5
88	Micro aerial vehicle autonomous flight control in tunnel environment. , 2017, , .		4
89	Design of a Discrete Tracking Controller for a Magnetic Levitation System: A Nonlinear Rational Model Approach. Mathematical Problems in Engineering, 2015, 2015, 1-8.	1.1	3
90	Two-stage multi-innovation stochastic gradient algorithm for multivariate output-error ARMA systems based on the auxiliary model. International Journal of Systems Science, 2019, 50, 2870-2884.	5.5	3

#	ARTICLE	IF	CITATIONS
91	Erratum to â€œAlgorithms for U-Model-Based Dynamic Inversion (UM-Dynamic Inversion) for Continuous Time Control Systemsâ€• Complexity, 2020, 2020, 1-1.	1.6	3
92	Distributed adaptive fixed-time neural networks control for nonaffine nonlinear multiagent systems. Scientific Reports, 2022, 12, 8459.	3.3	3
93	Nonsmooth Finite-Time Control of Uncertain Affine Planar Systems. , 2006, , .		2
94	Orthogonal relations coupling renewable energy and sustainable plant systems. , 2014, , .		2
95	Sliding mode control for discrete time switched systems with uncertain parameters and time delay. , 2014, , .		2
96	The first stage studies of U-state space control system design. , 2015, , .		2
97	A new terminal converging adaptive control for 6-degree-of-freedom parallel robotic manipulators with bounded control inputs. Proceedings of the Institution of Mechanical Engineers Part I: Journal of Systems and Control Engineering, 2017, 231, 271-281.	1.0	2
98	A U-model based controller design for non-minimum phase systems: Application to Boeing 747 altitude-hold autopilot. , 2017, , .		2
99	Synchronization Between a Novel Integer-Order Hyperchaotic System and a Fractional-Order Hyperchaotic System Using Tracking Control. , 2018, , .		2
100	A General U-Model Based Adaptive Control Design Procedure for Nonlinear Non-Affine Systems. , 2018, , .		2
101	Auxiliary Variable-Based Identification Algorithms for Uncertain-Input Models. Circuits, Systems, and Signal Processing, 2020, 39, 3389-3404.	2.0	2
102	Varying Infimum Gradient Descent Algorithm for Agentâ€"Server Systems With Uncertain Communication Network. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-11.	4.7	2
103	Least square algorithm based on bias compensated principle for parameter estimation of canonical state space model. Measurement and Control, 2022, 55, 330-339.	1.8	2
104	On non-integer order rational model identification. , 2008, , .		1
105	Case studies on U-state space control system design for aircraft dynamic model. , 2015, , .		1
106	A general U-model based super twisting design procedure for nonlinear polynomial systems. , 2017, , .		1
107	U-model enhanced control of non-minimum phase systems. International Journal of Systems Science, 2020, 51, 3146-3162.	5.5	1
108	Multi-Innovation Stochastic Gradient Parameter and State Estimation Algorithm for Dual-Rate State-Space Systems with <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" id="M1"><mml:mi>d</mml:mi></mml:math>-Step Time Delay. Complexity, 2020, 2020, 1-11.	1.6	1

#	Article	IF	Citations
109	U-model enhanced control of Volterra series systems. , 2019, , .		1
110	Accelerated identification algorithms for rational models based on the vector transformation. Optimal Control Applications and Methods, 2022, 43, 740-756.	2.1	1
111	Special Issue â€œComplex Dynamic System Modelling, Identification and Controlâ€• Entropy, 2022, 24, 380.	2.2	1
112	Adaptive Fixed-Time Neural Networks Control for Pure-Feedback Non-Affine Nonlinear Systems with State Constraints. Entropy, 2022, 24, 737.	2.2	1
113	A Trajectory Tracking Control Scheme of a Human Arm in The Sagittal Plane. , 2007, , .		0
114	An on-line algorithm of uncertain time delay estimation in a continuous system. , 2009, , .		0
115	A new terminal converging PD control for parallel robotic manipulators with bounded torque. , 2011, , .		0
116	Neural networked based synchronized control for multiple robotic manipulators. , 2013, , .		0
117	Mamdani type controller design for MIMO systems with case study. , 2015, , .		0
118	A CAD tool development for U-model based control system design. , 2015, , .		0
119	The evolution of behavior strategies among typical games. , 2015, , .		0
120	Sliding mode control for discrete time switched systems with uncertain parameters and time delay. , 2015, , .		0
121	Design of U-model enhanced adaptive control of nonlinear systems. , 2016, , .		0
122	Design of U-PPC-Type II for Nonlinear Systems. , 2016, , .		0
123	H<inf>âˆž</inf> variable structure control for a class of uncertain singular switched systems with time-delay. , 2017, , .		0
124	Correlation tests based NARMAX data smoother validation. , 2007, , .		0