

# Quanmin Zhu

## List of Publications by Year in descending order

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124  
papers

2,605  
citations

212478

28  
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252626

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124  
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124  
docs citations

124  
times ranked

1900  
citing authors

#	ARTICLE	IF	CITATIONS
1	A new configuration of composite nonlinear feedback control for nonlinear systems with input saturation. <i>JVC/Journal of Vibration and Control</i> , 2023, 29, 1417-1430.	1.5	10
2	Robust adaptive sliding mode control strategy of uncertain nonlinear systems. <i>Proceedings of the Institution of Mechanical Engineers, Part G: Journal of Aerospace Engineering</i> , 2023, 237, 62-74.	0.7	5
3	Robust Standard Gradient Descent Algorithm for ARX Models Using Aitken Acceleration Technique. <i>IEEE Transactions on Cybernetics</i> , 2022, 52, 9646-9655.	6.2	8
4	An extended state observer based U-model control of the COVID-19. <i>ISA Transactions</i> , 2022, 124, 115-123.	3.1	10
5	Accelerated Gradient Descent Estimation for Rational Models by Using Volterra Series: Structure Identification and Parameter Estimation. <i>IEEE Transactions on Circuits and Systems II: Express Briefs</i> , 2022, 69, 1497-1501.	2.2	6
6	Identification and U-model control of a state-space system with time delay. <i>International Journal of Adaptive Control and Signal Processing</i> , 2022, 36, 138-154.	2.3	57
7	Varying Infimum Gradient Descent Algorithm for Agent-Sever Systems Using Different Order Iterative Preconditioning Methods. <i>IEEE Transactions on Industrial Informatics</i> , 2022, 18, 4436-4446.	7.2	5
8	Multidirection Gradient Iterative Algorithm: A Unified Framework for Gradient Iterative and Least Squares Algorithms. <i>IEEE Transactions on Automatic Control</i> , 2022, 67, 6770-6777.	3.6	15
9	Accelerated identification algorithms for rational models based on the vector transformation. <i>Optimal Control Applications and Methods</i> , 2022, 43, 740-756.	1.3	1
10	Separable Synchronous Multi-Innovation Gradient-Based Iterative Signal Modeling From On-Line Measurements. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2022, 71, 1-13.	2.4	48
11	Special Issue "Complex Dynamic System Modelling, Identification and Control". <i>Entropy</i> , 2022, 24, 380.	1.1	1
12	Augmented flexible least squares algorithm for time-varying parameter systems. <i>International Journal of Robust and Nonlinear Control</i> , 2022, 32, 3549-3567.	2.1	8
13	Distributed adaptive fixed-time neural networks control for nonaffine nonlinear multiagent systems. <i>Scientific Reports</i> , 2022, 12, 8459.	1.6	3
14	Robust Variable-Step Perturb-and-Observe Sliding Mode Controller for Grid-Connected Wind-Energy-Conversion Systems. <i>Entropy</i> , 2022, 24, 731.	1.1	11
15	Adaptive Fixed-Time Neural Networks Control for Pure-Feedback Non-Affine Nonlinear Systems with State Constraints. <i>Entropy</i> , 2022, 24, 737.	1.1	1
16	Least square algorithm based on bias compensated principle for parameter estimation of canonical state space model. <i>Measurement and Control</i> , 2022, 55, 330-339.	0.9	2
17	Guaranteed Performance Design for Formation Tracking and Collision Avoidance of Multiple USVs With Disturbances and Unmodeled Dynamics. <i>IEEE Systems Journal</i> , 2021, 15, 4346-4357.	2.9	29
18	U-Model-Based Two-Degree-of-Freedom Internal Model Control of Nonlinear Dynamic Systems. <i>Entropy</i> , 2021, 23, 169.	1.1	14

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19	Reinforced adaptive parameter estimation with prescribed transient convergence performance. Systems and Control Letters, 2021, 149, 104880.	1.3	6
20	State filtering and parameter estimation for two-input two-output systems with time delay. IET Control Theory and Applications, 2021, 15, 2053-2066.	1.2	11
21	A generalized minimal residual based iterative back propagation algorithm for polynomial nonlinear models. Systems and Control Letters, 2021, 153, 104966.	1.3	5
22	Robust Stabilization and Synchronization of a Novel Chaotic System with Input Saturation Constraints. Entropy, 2021, 23, 1110.	1.1	10
23	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.	2.3	11
24	Varying Infimum Gradient Descent Algorithm for Agent-Server Systems With Uncertain Communication Network. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-11.	2.4	2
25	Complete model-free sliding mode control (CMFSMC). Scientific Reports, 2021, 11, 22565.	1.6	28
26	Disturbance-Observer-Based U-Control (DOBUC) for Nonlinear Dynamic Systems. Entropy, 2021, 23, 1625.	1.1	6
27	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.	5.9	26
28	Global convergence of the EM algorithm for ARX models with uncertain communication channels. Systems and Control Letters, 2020, 136, 104614.	1.3	10
29	Auxiliary Variable-Based Identification Algorithms for Uncertain-Input Models. Circuits, Systems, and Signal Processing, 2020, 39, 3389-3404.	1.2	2
30	Algorithms for U-Model-Based Dynamic Inversion (UM-Dynamic Inversion) for Continuous Time Control Systems. Complexity, 2020, 2020, 1-14.	0.9	9
31	U-Model and U-Control Methodology for Nonlinear Dynamic Systems. Complexity, 2020, 2020, 1-13.	0.9	8
32	Erratum to "Algorithms for U-Model-Based Dynamic Inversion (UM-Dynamic Inversion) for Continuous Time Control Systems". Complexity, 2020, 2020, 1-1.	0.9	3
33	U-model enhanced control of non-minimum phase systems. International Journal of Systems Science, 2020, 51, 3146-3162.	3.7	1
34	Multi-Innovation Stochastic Gradient Parameter and State Estimation Algorithm for Dual-Rate State-Space Systems with $\mu$ -Step Time Delay. Complexity, 2020, 2020, 1-11.	0.9	1
35	Maximum likelihood iterative identification approaches for multivariable equation-error moving average systems. International Journal of Systems Science, 2020, 51, 3285-3298.	3.7	6
36	Improved gradient descent algorithms for time-delay rational state-space systems: intelligent search method and momentum method. Nonlinear Dynamics, 2020, 101, 361-373.	2.7	18

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37	Modified Kalman filtering based multi-step-length gradient iterative algorithm for ARX models with random missing outputs. <i>Automatica</i> , 2020, 118, 109034.	3.0	106
38	Weighted Multiple-Model Neural Network Adaptive Control for Robotic Manipulators with Jumping Parameters. <i>Complexity</i> , 2020, 2020, 1-12.	0.9	6
39	Neural Computing Enhanced Parameter Estimation for Multi-Input and Multi-Output Total Non-Linear Dynamic Models. <i>Entropy</i> , 2020, 22, 510.	1.1	20
40	Interval Error Correction Auxiliary Model Based Gradient Iterative Algorithms for Multirate ARX Models. <i>IEEE Transactions on Automatic Control</i> , 2020, 65, 4385-4392.	3.6	36
41	Bias compensation-based parameter and state estimation for a class of time-delay nonlinear state-space models. <i>IET Control Theory and Applications</i> , 2020, 14, 2176-2185.	1.2	41
42	Homeomorphism Mapping Based Neural Networks for Finite Time Constraint Control of a Class of Nonaffine Pure-Feedback Nonlinear Systems. <i>Complexity</i> , 2019, 2019, 1-11.	0.9	9
43	Maximum likelihood based identification methods for rational models. <i>International Journal of Systems Science</i> , 2019, 50, 2579-2591.	3.7	5
44	Super-Twisting Sliding Mode Control for Gearless PMSG-Based Wind Turbine. <i>Complexity</i> , 2019, 2019, 1-15.	0.9	56
45	Aitken based modified Kalman filtering stochastic gradient algorithm for dual-rate nonlinear models. <i>Journal of the Franklin Institute</i> , 2019, 356, 4732-4746.	1.9	14
46	U-neural network-enhanced control of nonlinear dynamic systems. <i>Neurocomputing</i> , 2019, 352, 12-21.	3.5	29
47	U-model based predictive control for nonlinear processes with input delay. <i>Journal of Process Control</i> , 2019, 75, 156-170.	1.7	32
48	Convergence Time Calculation for Supertwisting Algorithm and Application for Nonaffine Nonlinear Systems. <i>Complexity</i> , 2019, 2019, 1-15.	0.9	6
49	Two-stage multi-innovation stochastic gradient algorithm for multivariate output-error ARMA systems based on the auxiliary model. <i>International Journal of Systems Science</i> , 2019, 50, 2870-2884.	3.7	3
50	U-model based Control Design Framework for Continuous-Time Systems. , 2019, , .		5
51	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> , 2019, 50, 141-151.	3.7	104
52	Adaptive Finite-Time Stabilization of Chaotic Flow with a Single Unstable Node Using a Nonlinear Function-Based Global Sliding Mode. <i>Iranian Journal of Science and Technology - Transactions of Electrical Engineering</i> , 2019, 43, 339-347.	1.5	17
53	U-model enhanced control of Volterra series systems. , 2019, , .		1
54	Decomposition-based recursive least squares identification methods for multivariate pseudo-linear systems using the multi-innovation. <i>International Journal of Systems Science</i> , 2018, 49, 920-928.	3.7	46

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55	Multi-step-length gradient iterative algorithm for equation-error type models. <i>Systems and Control Letters</i> , 2018, 115, 15-21.	1.3	28
56	Synchronization Between a Novel Integer-Order Hyperchaotic System and a Fractional-Order Hyperchaotic System Using Tracking Control. , 2018, , .		2
57	Neural Network Based Switching State Selection for Direct Power Control of Three Phase PWM-Rectifier. , 2018, , .		13
58	Robust Adaptive Finite-Time Parameter Estimation for Nonlinearly Parameterized Nonlinear Systems. , 2018, , .		13
59	A General U-Model Based Adaptive Control Design Procedure for Nonlinear Non-Affine Systems. , 2018, , .		2
60	Bias compensation recursive algorithm for dual-rate rational models. <i>IET Control Theory and Applications</i> , 2018, 12, 2184-2193.	1.2	7
61	A New Hydraulic Speed Regulation Scheme: Valve-Pump Parallel Variable Mode Control. <i>IEEE Access</i> , 2018, 6, 55257-55263.	2.6	8
62	Decentralized adaptive force/position control of reconfigurable manipulator based on soft sensors. <i>Proceedings of the Institution of Mechanical Engineers Part I: Journal of Systems and Control Engineering</i> , 2018, 232, 1260-1271.	0.7	7
63	A data-driven optimal control approach for solution purification process. <i>Journal of Process Control</i> , 2018, 68, 171-185.	1.7	24
64	Control of Complex Nonlinear Dynamic Rational Systems. <i>Complexity</i> , 2018, 2018, 1-12.	0.9	20
65	Recursive identification for multivariate autoregressive equation-error systems with autoregressive noise. <i>International Journal of Systems Science</i> , 2018, 49, 2763-2775.	3.7	5
66	Marker-Based Multi-Sensor Fusion Indoor Localization System for Micro Air Vehicles. <i>Sensors</i> , 2018, 18, 1706.	2.1	31
67	Biased compensation recursive least squares-based threshold algorithm for time-delay rational models via redundant rule. <i>Nonlinear Dynamics</i> , 2018, 91, 797-807.	2.7	31
68	A two-step co-evolutionary particle swarm optimization approach for CO <sub>2</sub> pipeline design with multiple uncertainties. <i>Carbon Management</i> , 2018, 9, 333-346.	1.2	5
69	An enhanced linear Kalman filter (EnLKF) algorithm for parameter estimation of nonlinear rational models. <i>International Journal of Systems Science</i> , 2017, 48, 451-461.	3.7	19
70	A globally consistent nonlinear least squares estimator for identification of nonlinear rational systems. <i>Automatica</i> , 2017, 77, 322-335.	3.0	40
71	A new terminal converging adaptive control for 6-degree-of-freedom parallel robotic manipulators with bounded control inputs. <i>Proceedings of the Institution of Mechanical Engineers Part I: Journal of Systems and Control Engineering</i> , 2017, 231, 271-281.	0.7	2
72	Design of sliding-mode observer for a class of uncertain neutral stochastic systems. <i>International Journal of Systems Science</i> , 2017, 48, 1380-1394.	3.7	11

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73	H $\infty$ variable structure control for a class of uncertain singular switched systems with time-delay. , 2017, , .		0
74	A new result on observer-based sliding mode control design for a class of uncertain It $\int$ stochastic delay systems. Journal of the Franklin Institute, 2017, 354, 8200-8216.	1.9	22
75	A U-model based controller design for non-minimum phase systems: Application to Boeing 747 altitude-hold autopilot. , 2017, , .		2
76	A general U-model based super twisting design procedure for nonlinear polynomial systems. , 2017, , .		1
77	Sliding mode control technique for multi-switching synchronization of chaotic systems. , 2017, , .		54
78	Micro aerial vehicle autonomous flight control in tunnel environment. , 2017, , .		4
79	Coordinated Control of a Wind-Methanol-Fuel Cell System with Hydrogen Storage. Energies, 2017, 10, 2053.	1.6	6
80	Time-Delay Systems: Modeling, Analysis, Estimation, Control, and Synchronization. Mathematical Problems in Engineering, 2017, 2017, 1-3.	0.6	8
81	Adaptive synchronised tracking control for multiple robotic manipulators with uncertain kinematics and dynamics. International Journal of Systems Science, 2016, 47, 791-804.	3.7	56
82	Design of U-model enhanced adaptive control of nonlinear systems. , 2016, , .		0
83	Performance analysis of the generalised projection identification for time-varying systems. IET Control Theory and Applications, 2016, 10, 2506-2514.	1.2	121
84	Design of U-PPC-Type II for Nonlinear Systems. , 2016, , .		0
85	A general U-block model-based design procedure for nonlinear polynomial control systems. International Journal of Systems Science, 2016, 47, 3465-3475.	3.7	42
86	Mamdani type controller design for MIMO systems with case study. , 2015, , .		0
87	A CAD tool development for U-model based control system design. , 2015, , .		0
88	Design of a Discrete Tracking Controller for a Magnetic Levitation System: A Nonlinear Rational Model Approach. Mathematical Problems in Engineering, 2015, 2015, 1-8.	0.6	3
89	Review of rational (total) nonlinear dynamic system modelling, identification, and control. International Journal of Systems Science, 2015, 46, 2122-2133.	3.7	55
90	The evolution of behavior strategies among typical games. , 2015, , .		0

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91	Case studies on U-state space control system design for aircraft dynamic model. , 2015, , .		1
92	Sliding mode control for discrete time switched systems with uncertain parameters and time delay. , 2015, , .		0
93	The first stage studies of U-state space control system design. , 2015, , .		2
94	Ultrasonic measurement of contact stiffness and pressure distribution on spindleâ€“holder taper interfaces. International Journal of Machine Tools and Manufacture, 2015, 97, 18-28.	6.2	23
95	Terminal sliding mode control for continuous stirred tank reactor. Chemical Engineering Research and Design, 2015, 94, 266-274.	2.7	54
96	Memoryless variable structure control for affine nonlinear systems using only output information. International Journal of Robust and Nonlinear Control, 2015, 25, 3316-3329.	2.1	9
97	Orthogonal relations coupling renewable energy and sustainable plant systems. , 2014, , .		2
98	Position synchronised control of multiple robotic manipulators based on integral sliding mode. International Journal of Systems Science, 2014, 45, 556-570.	3.7	48
99	A real-time EMG pattern recognition method for virtual myoelectric hand control. Neurocomputing, 2014, 136, 345-355.	3.5	103
100	Sliding mode control for discrete time switched systems with uncertain parameters and time delay. , 2014, , .		2
101	A framework of neural networks based consensus control for multiple robotic manipulators. Neurocomputing, 2014, 140, 8-18.	3.5	127
102	Synchronized control with neuro-agents for leaderâ€“follower based multiple robotic manipulators. Neurocomputing, 2014, 124, 149-161.	3.5	71
103	Output Feedback Terminal Sliding Mode Control for a Class of Second Order Nonlinear Systems. Asian Journal of Control, 2013, 15, 237-247.	1.9	50
104	Neural networked based synchronized control for multiple robotic manipulators. , 2013, , .		0
105	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.	3.5	27
106	Moving Horizon Scheduling for Networked Control Systems with Communication Constraints. IEEE Transactions on Industrial Electronics, 2012, , 1-1.	5.2	12
107	Moving Horizon State Estimation for Networked Control Systems With Multiple Packet Dropouts. IEEE Transactions on Automatic Control, 2012, 57, 2360-2366.	3.6	46
108	A new terminal converging PD control for parallel robotic manipulators with bounded torque. , 2011, , .		0

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109	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.	1.6	21
110	A generalized procedure in designing recurrent neural network identification and control of time-varying-delayed nonlinear dynamic systems. Neurocomputing, 2010, 73, 1376-1383.	3.5	12
111	Robust adaptive sliding mode control for uncertain discrete-time systems with time delay. Journal of the Franklin Institute, 2010, 347, 339-357.	1.9	104
112	An on-line algorithm of uncertain time delay estimation in a continuous system. , 2009, , .		0
113	A Correlation-Test-Based Validation Procedure for Identified Neural Networks. IEEE Transactions on Neural Networks, 2009, 20, 1-13.	4.8	43
114	On non-integer order rational model identification. , 2008, , .		1
115	A Trajectory Tracking Control Scheme of a Human Arm in The Sagittal Plane. , 2007, , .		0
116	Development of omni-directional correlation functions for nonlinear model validation. Automatica, 2007, 43, 1519-1531.	3.0	27
117	Correlation tests based NARMAX data smoother validation. , 2007, , .		0
118	Nonsmooth Finite-Time Control of Uncertain Affine Planar Systems. , 2006, , .		2
119	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
120	Stable Adaptive Neurocontrol for Nonlinear Discrete-Time Systems. IEEE Transactions on Neural Networks, 2004, 15, 653-662.	4.8	84
121	A back propagation algorithm to estimate the parameters of non-linear dynamic rational models. Applied Mathematical Modelling, 2003, 27, 169-187.	2.2	53
122	Towards neural adaptive hovering control of helicopters. , 0, , .		6
123	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
124	U-model-based double sliding mode control (UDSM-control) of nonlinear dynamic systems. International Journal of Systems Science, 0, , 1-17.	3.7	5