

# Bin Xu

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

123  
papers

4,096  
citations

35  
h-index

62  
g-index

155  
ext. papers

5,170  
ext. citations

4.9  
avg, IF

6.58  
L-index

#	Paper	IF	Citations
123	Locally Weighted Learning Robot Control With Improved Parameter Convergence. <i>IEEE Transactions on Industrial Electronics</i> , <b>2022</b> , 1-1	8.9	0
122	Harmonic disturbance observer-based sliding mode control of MEMS gyroscopes. <i>Science China Information Sciences</i> , <b>2022</b> , 65, 1	3.4	2
121	Terminal Sliding Mode Control of MEMS Gyroscopes With Finite-Time Learning. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , <b>2021</b> , 32, 4490-4498	10.3	4
120	Intelligent Control of Flexible Hypersonic Flight Dynamics With Input Dead Zone Using Singular Perturbation Decomposition.. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , <b>2021</b> , PP,	10.3	1
119	Neural sliding mode control of low-altitude flying UAV considering wave effect. <i>Computers and Electrical Engineering</i> , <b>2021</b> , 96, 107505	4.3	1
118	Sliding mode control of multi-agent system with application to UAV air combat. <i>Computers and Electrical Engineering</i> , <b>2021</b> , 96, 107491	4.3	2
117	Aerodynamic/reaction-jet compound control of hypersonic reentry vehicle using sliding mode control and neural learning. <i>Aerospace Science and Technology</i> , <b>2021</b> , 111, 106564	4.9	9
116	Kalman-filter-based robust control for hypersonic flight vehicle with measurement noises. <i>Aerospace Science and Technology</i> , <b>2021</b> , 112, 106566	4.9	5
115	Interval Estimation for Uncertain Systems via Polynomial Chaos Expansions. <i>IEEE Transactions on Automatic Control</i> , <b>2021</b> , 66, 468-475	5.9	5
114	Robust Adaptive Neural Control of Nonminimum Phase Hypersonic Vehicle Model. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , <b>2021</b> , 51, 1107-1115	7.3	24
113	Composite Learning Fuzzy Control of Stochastic Nonlinear Strict-Feedback Systems. <i>IEEE Transactions on Fuzzy Systems</i> , <b>2021</b> , 29, 705-715	8.3	5
112	A Model-Free Approach for Online Optimization of Nonlinear Systems. <i>IEEE Transactions on Circuits and Systems II: Express Briefs</i> , <b>2021</b> , 1-1	3.5	1
111	Virtual Guidance-Based Coordinated Tracking Control of Multi-Autonomous Underwater Vehicles Using Composite Neural Learning. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , <b>2021</b> , 32, 5565-5574	10.3	1
110	HCCodesign for Uncertain Nonlinear Control Systems Based on Policy Iteration Method. <i>IEEE Transactions on Cybernetics</i> , <b>2021</b> , PP,	10.2	13
109	Adaptive Learning Control of Switched Strict-Feedback Nonlinear Systems With Dead Zone Using NN and DOB. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , <b>2021</b> , PP,	10.3	2
108	Finite-Time Robust Intelligent Control of Strict-Feedback Nonlinear Systems With Flight Dynamics Application. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , <b>2021</b> , PP,	10.3	2
107	Robust Intelligent Control of SISO Nonlinear Systems Using Switching Mechanism. <i>IEEE Transactions on Cybernetics</i> , <b>2021</b> , 51, 3975-3987	10.2	5

106	. <i>IEEE Transactions on Aerospace and Electronic Systems</i> , <b>2021</b> , 1-1	3-7	6
105	Hybrid Intelligent Feedforward-feedback Pitch Control for VSWT with Predicted Wind Speed. <i>IEEE Transactions on Energy Conversion</i> , <b>2021</b> , 1-1	5-4	5
104	Optimal design of a scaled-up PRO system using swarm intelligence approach. <i>Science China Information Sciences</i> , <b>2021</b> , 64, 1	3-4	7
103	Efficient Learning Control of Uncertain Fractional-Order Chaotic Systems With Disturbance. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , <b>2020</b> , PP,	10-3	1
102	Serial-Parallel Estimation Model-Based Sliding Mode Control of MEMS Gyroscopes. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , <b>2020</b> , 1-12	7-3	6
101	Disturbance Observer-Based Fault-Tolerant Control for Robotic Systems With Guaranteed Prescribed Performance. <i>IEEE Transactions on Cybernetics</i> , <b>2020</b> ,	10-2	8
100	Adaptive fuzzy voltage-based backstepping tracking control for uncertain robotic manipulators subject to partial state constraints and input delay. <i>Nonlinear Dynamics</i> , <b>2020</b> , 100, 2609-2634	5	11
99	Evasion guidance algorithms for air-breathing hypersonic vehicles in three-player pursuit-evasion games. <i>Chinese Journal of Aeronautics</i> , <b>2020</b> , 33, 3423-3436	3-7	3
98	Analysis and design of a distributed k-winners-take-all model. <i>Automatica</i> , <b>2020</b> , 115, 108868	5-7	4
97	Output Feedback Control of Micromechanical Gyroscopes Using Neural Networks and Disturbance Observer. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , <b>2020</b> , PP,	10-3	7
96	Distributed H <sub>∞</sub> /L <sub>1</sub> Fault detection observer design for linear systems. <i>IFAC-PapersOnLine</i> , <b>2020</b> , 53, 688-693	3-7	1
95	Finite-time prescribed performance control of MEMS gyroscopes. <i>Nonlinear Dynamics</i> , <b>2020</b> , 101, 2223-2334	3-4	6
94	Robust adaptive control of hypersonic flight vehicle with asymmetric AOA constraint. <i>Science China Information Sciences</i> , <b>2020</b> , 63, 1	3-4	4
93	Adaptive Control of Uncertain Nonlinear Time-Delay Systems With External Disturbance. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , <b>2020</b> , 1-8	7-3	5
92	Robust Adaptive Fuzzy Tracking Control for Uncertain MIMO Nonlinear Nonminimum Phase System. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , <b>2020</b> , 50, 2017-2028	7-3	2
91	Neural Network-Based Distributed Cooperative Learning Control for Multiagent Systems via Event-Triggered Communication. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , <b>2020</b> , 31, 407-419	10-3	20
90	Composite Neural Learning-Based Nonsingular Terminal Sliding Mode Control of MEMS Gyroscopes. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , <b>2020</b> , 31, 1375-1386	10-3	37
89	Uncalibrated downward-looking UAV visual compass based on clustered point features. <i>Science China Information Sciences</i> , <b>2019</b> , 62, 1	3-4	7

88	Robust Neural Direct Hypersonic Flight Control Under Actuator Saturation. <i>Communications in Computer and Information Science</i> , <b>2019</b> , 406-414	0.3	
87	Composite learning adaptive sliding mode control for AUV target tracking. <i>Neurocomputing</i> , <b>2019</b> , 351, 180-186	5.4	20
86	Vision Information and Laser Module Based UAV Target Tracking <b>2019</b> ,		3
85	Analysis of College Students' Public Opinion Based on Machine Learning and Evolutionary Algorithm. <i>Complexity</i> , <b>2019</b> , 2019, 1-10	1.6	1
84	Neural Learning Control of Strict-Feedback Systems Using Disturbance Observer. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , <b>2019</b> , 30, 1296-1307	10.3	57
83	Adaptive neural control of unknown non-affine nonlinear systems with input deadzone and unknown disturbance. <i>Nonlinear Dynamics</i> , <b>2019</b> , 95, 1283-1299	5	13
82	Barrier Lyapunov Function Based Learning Control of Hypersonic Flight Vehicle With AOA Constraint and Actuator Faults. <i>IEEE Transactions on Cybernetics</i> , <b>2019</b> , 49, 1047-1057	10.2	105
81	Composite Learning Control of MIMO Systems With Applications. <i>IEEE Transactions on Industrial Electronics</i> , <b>2018</b> , 65, 6414-6424	8.9	45
80	HOSM observer based robust adaptive hypersonic flight control using composite learning. <i>Neurocomputing</i> , <b>2018</b> , 295, 98-107	5.4	6
79	Online Recorded Data-Based Composite Neural Control of Strict-Feedback Systems With Application to Hypersonic Flight Dynamics. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , <b>2018</b> , 29, 3839-3849	10.3	68
78	Robust Adaptive Fuzzy Control for HFV With Parameter Uncertainty and Unmodeled Dynamics. <i>IEEE Transactions on Industrial Electronics</i> , <b>2018</b> , 65, 8851-8860	8.9	39
77	Composite Learning Finite-Time Control With Application to Quadrotors. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , <b>2018</b> , 48, 1806-1815	7.3	76
76	Composite Intelligent Learning Control of Strict-Feedback Systems With Disturbance. <i>IEEE Transactions on Cybernetics</i> , <b>2018</b> , 48, 730-741	10.2	110
75	Real Estate Confidence Index Based on Real Estate News. <i>Emerging Markets Finance and Trade</i> , <b>2018</b> , 54, 747-760	3.5	4
74	Composite Learning Control of Flexible-Link Manipulator Using NN and DOB. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , <b>2018</b> , 48, 1979-1985	7.3	50
73	Two controller designs of hypersonic flight vehicle under actuator dynamics and AOA constraint. <i>Aerospace Science and Technology</i> , <b>2018</b> , 80, 11-19	4.9	15
72	Sliding mode control of MEMS gyroscopes using composite learning. <i>Neurocomputing</i> , <b>2018</b> , 275, 2555-2564	5.4	11
71	Disturbance Observer-Based Dynamic Surface Control of Transport Aircraft With Continuous Heavy Cargo Airdrop. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , <b>2017</b> , 47, 161-170	7.3	91

70	Disturbance Observer Based Composite Learning Fuzzy Control of Nonlinear Systems with Unknown Dead Zone. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , <b>2017</b> , 47, 1854-1862	7.3	110
69	Robust bilateral control for state convergence in uncertain teleoperation systems with time-varying delay: a guaranteed cost control design. <i>Nonlinear Dynamics</i> , <b>2017</b> , 88, 1413-1426	5	22
68	Two performance enhanced control of flexible-link manipulator with system uncertainty and disturbances. <i>Science China Information Sciences</i> , <b>2017</b> , 60, 1	3.4	21
67	Adaptive fault tolerant control for hypersonic vehicle with external disturbance. <i>International Journal of Advanced Robotic Systems</i> , <b>2017</b> , 14, 172988141668713	1.4	5
66	DOB-Based Neural Control of Flexible Hypersonic Flight Vehicle Considering Wind Effects. <i>IEEE Transactions on Industrial Electronics</i> , <b>2017</b> , 64, 8676-8685	8.9	143
65	Adaptive sliding mode control of non-linear non-minimum phase system with input delay. <i>IET Control Theory and Applications</i> , <b>2017</b> , 11, 1153-1161	2.5	11
64	Composite Learning Sliding Mode Control of Flexible-Link Manipulator. <i>Complexity</i> , <b>2017</b> , 2017, 1-6	1.6	26
63	Global adaptive tracking control of robot manipulators using neural networks with finite-time learning convergence. <i>International Journal of Control, Automation and Systems</i> , <b>2017</b> , 15, 1916-1924	2.9	35
62	Nonlinear adaptive tracking control of non-minimum phase hypersonic flight vehicles with unknown input nonlinearity. <i>Nonlinear Dynamics</i> , <b>2017</b> , 90, 1151-1163	5	10
61	Discrete reconfigurable back-stepping attitude control of reentry hypersonic flight vehicle. <i>Advances in Mechanical Engineering</i> , <b>2017</b> , 9, 168781401770390	1.2	4
60	Adaptive fuzzy PD control with stable H <sub>∞</sub> tracking guarantee. <i>Neurocomputing</i> , <b>2017</b> , 237, 71-78	5.4	27
59	Methodological Guidelines for Publishing Library Data as Linked Data <b>2017</b> ,		2
58	Minimal-Learning-Parameter Technique Based Adaptive Neural Sliding Mode Control of MEMS Gyroscope. <i>Complexity</i> , <b>2017</b> , 2017, 1-8	1.6	31
57	Composite Learning Control of Hypersonic Flight Dynamics Without Back-Stepping. <i>Lecture Notes in Computer Science</i> , <b>2017</b> , 212-218	0.9	0
56	Robust Adaptive Neural Fault-Tolerant Control of Hypersonic Flight Vehicle. <i>Communications in Computer and Information Science</i> , <b>2017</b> , 44-51	0.3	
55	Neural network based dynamic surface control of hypersonic flight dynamics using small-gain theorem. <i>Neurocomputing</i> , <b>2016</b> , 173, 690-699	5.4	67
54	Failure prognosis of multiple uncertainty system based on Kalman filter and its application to aircraft fuel system. <i>Advances in Mechanical Engineering</i> , <b>2016</b> , 8, 168781401667144	1.2	8
53	Neural network based global adaptive dynamic surface tracking control for robot manipulators <b>2016</b> ,		2

52	Review of modeling and control during transport airdrop process. <i>International Journal of Advanced Robotic Systems</i> , <b>2016</b> , 13, 172988141667814	1.4	8
51	Fault-tolerant control using command-filtered adaptive back-stepping technique: Application to hypersonic longitudinal flight dynamics. <i>International Journal of Adaptive Control and Signal Processing</i> , <b>2016</b> , 30, 553-577	2.8	82
50	Hybrid feedback feedforward: An efficient design of adaptive neural network control. <i>Neural Networks</i> , <b>2016</b> , 76, 122-134	9.1	88
49	Intelligent Control in Discrete Time for Autonomous Systems. <i>Discrete Dynamics in Nature and Society</i> , <b>2016</b> , 2016, 1-2	1.1	
48	Adaptive Fuzzy Sliding Mode Control of MEMS Gyroscope with Finite Time Convergence. <i>Journal of Sensors</i> , <b>2016</b> , 2016, 1-7	2	10
47	An Approach of Ontology Based Knowledge Base Construction for Chinese K12 Education <b>2016</b> ,		5
46	Composite fuzzy control of a class of uncertain nonlinear systems with disturbance observer. <i>Nonlinear Dynamics</i> , <b>2015</b> , 80, 341-351	5	93
45	An overview on flight dynamics and control approaches for hypersonic vehicles. <i>Science China Information Sciences</i> , <b>2015</b> , 58, 1-19	3.4	90
44	Robust adaptive neural control of flexible hypersonic flight vehicle with dead-zone input nonlinearity. <i>Nonlinear Dynamics</i> , <b>2015</b> , 80, 1509-1520	5	206
43	Minimal-learning-parameter technique based adaptive neural control of hypersonic flight dynamics without back-stepping. <i>Neurocomputing</i> , <b>2015</b> , 164, 201-209	5.4	49
42	Global neural dynamic surface tracking control of strict-feedback systems with application to hypersonic flight vehicle. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , <b>2015</b> , 26, 2563-75	10.3	235
41	Neural discrete back-stepping control of hypersonic flight vehicle with equivalent prediction model. <i>Neurocomputing</i> , <b>2015</b> , 154, 337-346	5.4	58
40	Adaptive Neural Control of a Quadrotor Helicopter with Extreme Learning Machine. <i>Proceedings in Adaptation, Learning and Optimization</i> , <b>2015</b> , 125-134	0.2	2
39	Command Filter Based Robust Nonlinear Control of Hypersonic Aircraft with Magnitude Constraints on States and Actuators. <i>Journal of Intelligent and Robotic Systems: Theory and Applications</i> , <b>2014</b> , 73, 233-247	2.9	45
38	Dynamic Surface Control of Constrained Hypersonic Flight Models with Parameter Estimation and Actuator Compensation. <i>Asian Journal of Control</i> , <b>2014</b> , 16, 162-174	1.7	175
37	Reinforcement learning output feedback NN control using deterministic learning technique. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , <b>2014</b> , 25, 635-41	10.3	184
36	Adaptive Neural Control of a Hypersonic Vehicle in Discrete Time. <i>Journal of Intelligent and Robotic Systems: Theory and Applications</i> , <b>2014</b> , 73, 219-231	2.9	19
35	Discrete-time hypersonic flight control based on extreme learning machine. <i>Neurocomputing</i> , <b>2014</b> , 128, 232-241	5.4	40

34	Composite neural dynamic surface control of a class of uncertain nonlinear systems in strict-feedback form. <i>IEEE Transactions on Cybernetics</i> , <b>2014</b> , 44, 2626-34	10.2	283
33	Decomposition of the Kennaugh Matrix Based on a New Norm. <i>IEEE Geoscience and Remote Sensing Letters</i> , <b>2014</b> , 11, 1000-1004	4.1	8
32	Dynamic Surface Control of Hypersonic Aircraft with Parameter Estimation. <i>Advances in Intelligent Systems and Computing</i> , <b>2014</b> , 667-677	0.4	
31	Neural control of hypersonic flight vehicle model via time-scale decomposition with throttle setting constraint. <i>Nonlinear Dynamics</i> , <b>2013</b> , 73, 1849-1861	5	49
30	Universal Kriging control of hypersonic aircraft model using predictor model without back-stepping. <i>IET Control Theory and Applications</i> , <b>2013</b> , 7, 573-583	2.5	22
29	Adaptive discrete-time control with dual neural networks for HFV via back-stepping <b>2013</b> ,		1
28	High-Accuracy TDOA-Based Localization without Time Synchronization. <i>IEEE Transactions on Parallel and Distributed Systems</i> , <b>2013</b> , 24, 1567-1576	3.7	64
27	Direct neural control of hypersonic flight vehicles with prediction model in discrete time. <i>Neurocomputing</i> , <b>2013</b> , 115, 39-48	5.4	28
26	Fuzzy adaptive control for pure-feedback system via time scale separation. <i>International Journal of Control, Automation and Systems</i> , <b>2013</b> , 11, 147-158	2.9	15
25	A Survey of Social-Based Routing in Delay Tolerant Networks: Positive and Negative Social Effects. <i>IEEE Communications Surveys and Tutorials</i> , <b>2013</b> , 15, 387-401	37.1	196
24	Towards efficiency of QoS-driven semantic web service composition for large-scale service-oriented systems. <i>Service Oriented Computing and Applications</i> , <b>2012</b> , 6, 1-13	1.6	15
23	Direct neural discrete control of hypersonic flight vehicle. <i>Nonlinear Dynamics</i> , <b>2012</b> , 70, 269-278	5	71
22	Daily Mood Assessment Based on Mobile Phone Sensing <b>2012</b> ,		44
21	Peaking Free HGO Based Neural Hypersonic Flight Vehicle Control <b>2012</b> ,		1
20	Link Characteristics Measuring in 2.4 GHz Body Area Sensor Networks. <i>International Journal of Distributed Sensor Networks</i> , <b>2012</b> , 8, 519792	1.7	4
19	L2P2: Location-aware location privacy protection for location-based services <b>2012</b> ,		49
18	Adaptive discrete-time controller design with neural network for hypersonic flight vehicle via back-stepping. <i>International Journal of Control</i> , <b>2011</b> , 84, 1543-1552	1.5	102
17	Whistle: Synchronization-Free TDOA for Localization <b>2011</b> ,		25



16	Adaptive neural control based on HGO for hypersonic flight vehicles. <i>Science China Information Sciences</i> , <b>2011</b> , 54, 511-520	3.4	82
15	iWeb: A Service-Oriented Web Application Framework with Service Selection over QoS and Context <b>2011</b> ,		3
14	Distributed Multi-Actuator Control for Workload Balancing in Wireless Sensor and Actuator Networks. <i>IEEE Transactions on Automatic Control</i> , <b>2011</b> , 56, 2462-2467	5.9	12
13	An accumulated-QoS-first search approach for semantic web service composition <b>2010</b> ,		2
12	The design and implementation of service process reconfiguration with end-to-end QoS constraints in SOA. <i>Service Oriented Computing and Applications</i> , <b>2010</b> , 4, 157-168	1.6	46
11	Service data correlation modeling and its application in data-driven service composition. <i>IEEE Transactions on Services Computing</i> , <b>2010</b> , 3, 279-291	4.8	13
10	Efficient composition of semantic web services with end-to-end QoS optimization. <i>Tsinghua Science and Technology</i> , <b>2010</b> , 15, 678-686	3.4	3
9	A QoS-Driven Approach for Semantic Service Composition <b>2009</b> ,		24
8	An efficient QoS-driven service composition approach for large-scale service oriented systems <b>2009</b> ,		2
7	Automatic Service Composition Using AND/OR Graph. <i>Advanced Issues of E-Commerce and Web-Based Information Systems (WECWIS), International Workshop on</i> , <b>2008</b> ,		22
6	Automatic Service Composition Based on Enhanced Service Dependency Graph <b>2008</b> ,		26
5	Semantic Web Services Discovery in P2P Environment <b>2007</b> ,		10
4	Inheritance-Aware Document-Driven Service Composition <b>2007</b> ,		5
3	A Semantic Matchmaker for Ranking Web Services. <i>Journal of Computer Science and Technology</i> , <b>2006</b> , 21, 574-581	1.7	4
2	SWSDS: Quick Web Service Discovery and Composition in SEWSIP <b>2006</b> ,		3
1	Evasion guidance for air-breathing hypersonic vehicles against unknown pursuer dynamics. <i>Neural Computing and Applications</i> , <b>1</b>	4.8	1