Bin Xu

List of Publications by Citations

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	Composite neural dynamic surface control of a class of uncertain nonlinear systems in strict-feedback form. *IEEE Transactions on Cybernetics*, **2014**, 44, 2626-34	10.2	283
122	Global neural dynamic surface tracking control of strict-feedback systems with application to hypersonic flight vehicle. *IEEE Transactions on Neural Networks and Learning Systems*, **2015**, 26, 2563-75	10.3	235
121	Robust adaptive neural control of flexible hypersonic flight vehicle with dead-zone input nonlinearity. *Nonlinear Dynamics*, **2015**, 80, 1509-1520	5	206
120	A Survey of Social-Based Routing in Delay Tolerant Networks: Positive and Negative Social Effects. *IEEE Communications Surveys and Tutorials*, **2013**, 15, 387-401	37.1	196
119	Reinforcement learning output feedback NN control using deterministic learning technique. *IEEE Transactions on Neural Networks and Learning Systems*, **2014**, 25, 635-41	10.3	184
118	Dynamic Surface Control of Constrained Hypersonic Flight Models with Parameter Estimation and Actuator Compensation. *Asian Journal of Control*, **2014**, 16, 162-174	1.7	175
117	DOB-Based Neural Control of Flexible Hypersonic Flight Vehicle Considering Wind Effects. *IEEE Transactions on Industrial Electronics*, **2017**, 64, 8676-8685	8.9	143
116	Disturbance Observer Based Composite Learning Fuzzy Control of Nonlinear Systems with Unknown Dead Zone. *IEEE Transactions on Systems, Man, and Cybernetics: Systems*, **2017**, 47, 1854-1862	7.3	110
115	Composite Intelligent Learning Control of Strict-Feedback Systems With Disturbance. *IEEE Transactions on Cybernetics*, **2018**, 48, 730-741	10.2	110
114	Barrier Lyapunov Function Based Learning Control of Hypersonic Flight Vehicle With AOA Constraint and Actuator Faults. *IEEE Transactions on Cybernetics*, **2019**, 49, 1047-1057	10.2	105
113	Adaptive discrete-time controller design with neural network for hypersonic flight vehicle via back-stepping. *International Journal of Control*, **2011**, 84, 1543-1552	1.5	102
112	Composite fuzzy control of a class of uncertain nonlinear systems with disturbance observer. *Nonlinear Dynamics*, **2015**, 80, 341-351	5	93
111	Disturbance Observer-Based Dynamic Surface Control of Transport Aircraft With Continuous Heavy Cargo Airdrop. *IEEE Transactions on Systems, Man, and Cybernetics: Systems*, **2017**, 47, 161-170	7.3	91
110	An overview on flight dynamics and control approaches for hypersonic vehicles. *Science China Information Sciences*, **2015**, 58, 1-19	3.4	90
109	Hybrid feedback feedforward: An efficient design of adaptive neural network control. *Neural Networks*, **2016**, 76, 122-134	9.1	88
108	Fault-tolerant control using command-filtered adaptive back-stepping technique: Application to hypersonic longitudinal flight dynamics. *International Journal of Adaptive Control and Signal Processing*, **2016**, 30, 553-577	2.8	82
107	Adaptive neural control based on HGO for hypersonic flight vehicles. *Science China Information Sciences*, **2011**, 54, 511-520	3.4	82

106	Composite Learning Finite-Time Control With Application to Quadrotors. *IEEE Transactions on Systems, Man, and Cybernetics: Systems*, **2018**, 48, 1806-1815	7.3	76
105	Direct neural discrete control of hypersonic flight vehicle. *Nonlinear Dynamics*, **2012**, 70, 269-278	5	71
104	Online Recorded Data-Based Composite Neural Control of Strict-Feedback Systems With Application to Hypersonic Flight Dynamics. *IEEE Transactions on Neural Networks and Learning Systems*, **2018**, 29, 3839-3849	10.3	68
103	Neural network based dynamic surface control of hypersonic flight dynamics using small-gain theorem. *Neurocomputing*, **2016**, 173, 690-699	5.4	67
102	High-Accuracy TDOA-Based Localization without Time Synchronization. *IEEE Transactions on Parallel and Distributed Systems*, **2013**, 24, 1567-1576	3.7	64
101	Neural discrete back-stepping control of hypersonic flight vehicle with equivalent prediction model. *Neurocomputing*, **2015**, 154, 337-346	5.4	58
100	Neural Learning Control of Strict-Feedback Systems Using Disturbance Observer. *IEEE Transactions on Neural Networks and Learning Systems*, **2019**, 30, 1296-1307	10.3	57
99	Composite Learning Control of Flexible-Link Manipulator Using NN and DOB. *IEEE Transactions on Systems, Man, and Cybernetics: Systems*, **2018**, 48, 1979-1985	7.3	50
98	Minimal-learning-parameter technique based adaptive neural control of hypersonic flight dynamics without back-stepping. *Neurocomputing*, **2015**, 164, 201-209	5.4	49
97	Neural control of hypersonic flight vehicle model via time-scale decomposition with throttle setting constraint. *Nonlinear Dynamics*, **2013**, 73, 1849-1861	5	49
96	L2P2: Location-aware location privacy protection for location-based services **2012**,		49
95	The design and implementation of service process reconfiguration with end-to-end QoS constraints in SOA. *Service Oriented Computing and Applications*, **2010**, 4, 157-168	1.6	46
94	Composite Learning Control of MIMO Systems With Applications. *IEEE Transactions on Industrial Electronics*, **2018**, 65, 6414-6424	8.9	45
93	Command Filter Based Robust Nonlinear Control of Hypersonic Aircraft with Magnitude Constraints on States and Actuators. *Journal of Intelligent and Robotic Systems: Theory and Applications*, **2014**, 73, 233-247	2.9	45
92	Daily Mood Assessment Based on Mobile Phone Sensing **2012**,		44
91	Discrete-time hypersonic flight control based on extreme learning machine. *Neurocomputing*, **2014**, 128, 232-241	5.4	40
90	Robust Adaptive Fuzzy Control for HFV With Parameter Uncertainty and Unmodeled Dynamics. *IEEE Transactions on Industrial Electronics*, **2018**, 65, 8851-8860	8.9	39
89	Composite Neural Learning-Based Nonsingular Terminal Sliding Mode Control of MEMS Gyroscopes. *IEEE Transactions on Neural Networks and Learning Systems*, **2020**, 31, 1375-1386	10.3	37

88	Global adaptive tracking control of robot manipulators using neural networks with finite-time learning convergence. *International Journal of Control, Automation and Systems*, **2017**, 15, 1916-1924	2.9	35
87	Minimal-Learning-Parameter Technique Based Adaptive Neural Sliding Mode Control of MEMS Gyroscope. *Complexity*, **2017**, 2017, 1-8	1.6	31
86	Direct neural control of hypersonic flight vehicles with prediction model in discrete time. *Neurocomputing*, **2013**, 115, 39-48	5.4	28
85	Adaptive fuzzy PD control with stable H tracking guarantee. *Neurocomputing*, **2017**, 237, 71-78	5.4	27
84	Composite Learning Sliding Mode Control of Flexible-Link Manipulator. *Complexity*, **2017**, 2017, 1-6	1.6	26
83	Automatic Service Composition Based on Enhanced Service Dependency Graph **2008**,		26
82	Whistle: Synchronization-Free TDOA for Localization **2011**,		25
81	A QoS-Driven Approach for Semantic Service Composition **2009**,		24
80	Robust Adaptive Neural Control of Nonminimum Phase Hypersonic Vehicle Model. *IEEE Transactions on Systems, Man, and Cybernetics: Systems*, **2021**, 51, 1107-1115	7.3	24
79	Robust bilateral control for state convergence in uncertain teleoperation systems with time-varying delay: a guaranteed cost control design. *Nonlinear Dynamics*, **2017**, 88, 1413-1426	5	22
78	Universal Kriging control of hypersonic aircraft model using predictor model without back-stepping. *IET Control Theory and Applications*, **2013**, 7, 573-583	2.5	22
77	Automatic Service Composition Using AND/OR Graph. *Advanced Issues of E-Commerce and Web-Based Information Systems (WECWIS), International Workshop on*, **2008**,		22
76	Two performance enhanced control of flexible-link manipulator with system uncertainty and disturbances. *Science China Information Sciences*, **2017**, 60, 1	3.4	21
75	Composite learning adaptive sliding mode control for AUV target tracking. *Neurocomputing*, **2019**, 351, 180-186	5.4	20
74	Neural Network-Based Distributed Cooperative Learning Control for Multiagent Systems via Event-Triggered Communication. *IEEE Transactions on Neural Networks and Learning Systems*, **2020**, 31, 407-419	10.3	20
73	Adaptive Neural Control of a Hypersonic Vehicle in Discrete Time. *Journal of Intelligent and Robotic Systems: Theory and Applications*, **2014**, 73, 219-231	2.9	19
72	Two controller designs of hypersonic flight vehicle under actuator dynamics and AOA constraint. *Aerospace Science and Technology*, **2018**, 80, 11-19	4.9	15
71	Towards efficiency of QoS-driven semantic web service composition for large-scale service-oriented systems. *Service Oriented Computing and Applications*, **2012**, 6, 1-13	1.6	15

70	Fuzzy adaptive control for pure-feedback system via time scale separation. *International Journal of Control, Automation and Systems*, **2013**, 11, 147-158	2.9	15
69	Service data correlation modeling and its application in data-driven service composition. *IEEE Transactions on Services Computing*, **2010**, 3, 279-291	4.8	13
68	Adaptive neural control of unknown non-affine nonlinear systems with input deadzone and unknown disturbance. *Nonlinear Dynamics*, **2019**, 95, 1283-1299	5	13
67	H∞ codesign for Uncertain Nonlinear Control Systems Based on Policy Iteration Method. *IEEE Transactions on Cybernetics*, **2021**, PP,	10.2	13
66	Distributed Multi-Actuator Control for Workload Balancing in Wireless Sensor and Actuator Networks. *IEEE Transactions on Automatic Control*, **2011**, 56, 2462-2467	5.9	12
65	Adaptive sliding mode control of non-linear non-minimum phase system with input delay. *IET Control Theory and Applications*, **2017**, 11, 1153-1161	2.5	11
64	Adaptive fuzzy voltage-based backstepping tracking control for uncertain robotic manipulators subject to partial state constraints and input delay. *Nonlinear Dynamics*, **2020**, 100, 2609-2634	5	11
63	Sliding mode control of MEMS gyroscopes using composite learning. *Neurocomputing*, **2018**, 275, 2555-2564	5.4	11
62	Nonlinear adaptive tracking control of non-minimum phase hypersonic flight vehicles with unknown input nonlinearity. *Nonlinear Dynamics*, **2017**, 90, 1151-1163	5	10
61	Semantic Web Services Discovery in P2P Environment **2007**,		10
60	Adaptive Fuzzy Sliding Mode Control of MEMS Gyroscope with Finite Time Convergence. *Journal of Sensors*, **2016**, 2016, 1-7	2	10
59	Aerodynamic/reaction-jet compound control of hypersonic reentry vehicle using sliding mode control and neural learning. *Aerospace Science and Technology*, **2021**, 111, 106564	4.9	9
58	Disturbance Observer-Based Fault-Tolerant Control for Robotic Systems With Guaranteed Prescribed Performance. *IEEE Transactions on Cybernetics*, **2020**,	10.2	8
57	Failure prognosis of multiple uncertainty system based on Kalman filter and its application to aircraft fuel system. *Advances in Mechanical Engineering*, **2016**, 8, 168781401667144	1.2	8
56	Review of modeling and control during transport airdrop process. *International Journal of Advanced Robotic Systems*, **2016**, 13, 172988141667814	1.4	8
55	Decomposition of the Kennaugh Matrix Based on a New Norm. *IEEE Geoscience and Remote Sensing Letters*, **2014**, 11, 1000-1004	4.1	8
54	Uncalibrated downward-looking UAV visual compass based on clustered point features. *Science China Information Sciences*, **2019**, 62, 1	3.4	7
53	Output Feedback Control of Micromechanical Gyroscopes Using Neural Networks and Disturbance Observer. *IEEE Transactions on Neural Networks and Learning Systems*, **2020**, PP,	10.3	7

52	Optimal design of a scaled-up PRO system using swarm intelligence approach. *Science China Information Sciences*, **2021**, 64, 1	3.4	7
51	Serial-Parallel Estimation Model-Based Sliding Mode Control of MEMS Gyroscopes. *IEEE Transactions on Systems, Man, and Cybernetics: Systems*, **2020**, 1-12	7.3	6
50	HOSM observer based robust adaptive hypersonic flight control using composite learning. *Neurocomputing*, **2018**, 295, 98-107	5.4	6
49	Finite-time prescribed performance control of MEMS gyroscopes. *Nonlinear Dynamics*, **2020**, 101, 2223-2234	5	6
48	. *IEEE Transactions on Aerospace and Electronic Systems*, **2021**, 1-1	3.7	6
47	Adaptive fault tolerant control for hypersonic vehicle with external disturbance. *International Journal of Advanced Robotic Systems*, **2017**, 14, 172988141668713	1.4	5
46	Inheritance-Aware Document-Driven Service Composition **2007**,		5
45	Adaptive Control of Uncertain Nonlinear Time-Delay Systems With External Disturbance. *IEEE Transactions on Systems, Man, and Cybernetics: Systems*, **2020**, 1-8	7.3	5
44	Kalman-filter-based robust control for hypersonic flight vehicle with measurement noises. *Aerospace Science and Technology*, **2021**, 112, 106566	4.9	5
43	An Approach of Ontology Based Knowledge Base Construction for Chinese K12 Education **2016**,		5
42	Interval Estimation for Uncertain Systems via Polynomial Chaos Expansions. *IEEE Transactions on Automatic Control*, **2021**, 66, 468-475	5.9	5
41	Composite Learning Fuzzy Control of Stochastic Nonlinear Strict-Feedback Systems. *IEEE Transactions on Fuzzy Systems*, **2021**, 29, 705-715	8.3	5
40	Robust Intelligent Control of SISO Nonlinear Systems Using Switching Mechanism. *IEEE Transactions on Cybernetics*, **2021**, 51, 3975-3987	10.2	5
39	Hybrid Intelligent Feedforward-feedback Pitch Control for VSWT with Predicted Wind Speed. *IEEE Transactions on Energy Conversion*, **2021**, 1-1	5.4	5
38	Terminal Sliding Mode Control of MEMS Gyroscopes With Finite-Time Learning. *IEEE Transactions on Neural Networks and Learning Systems*, **2021**, 32, 4490-4498	10.3	4
37	Analysis and design of a distributed k-winners-take-all model. *Automatica*, **2020**, 115, 108868	5.7	4
36	Real Estate Confidence Index Based on Real Estate News. *Emerging Markets Finance and Trade*, **2018**, 54, 747-760	3.5	4
35	Discrete reconfigurable back-stepping attitude control of reentry hypersonic flight vehicle. *Advances in Mechanical Engineering*, **2017**, 9, 168781401770390	1.2	4

34	Link Characteristics Measuring in 2.4 GHz Body Area Sensor Networks. *International Journal of Distributed Sensor Networks*, **2012**, 8, 519792	1.7	4
33	A Semantic Matchmaker for Ranking Web Services. *Journal of Computer Science and Technology*, **2006**, 21, 574-581	1.7	4
32	Robust adaptive control of hypersonic flight vehicle with asymmetric AOA constraint. *Science China Information Sciences*, **2020**, 63, 1	3.4	4
31	Evasion guidance algorithms for air-breathing hypersonic vehicles in three-player pursuit-evasion games. *Chinese Journal of Aeronautics*, **2020**, 33, 3423-3436	3.7	3
30	iWeb: A Service-Oriented Web Application Framework with Service Selection over QoS and Context **2011**,		3
29	Efficient composition of semantic web services with end-to-end QoS optimization. *Tsinghua Science and Technology*, **2010**, 15, 678-686	3.4	3
28	SWSDS: Quick Web Service Discovery and Composition in SEWSIP **2006**,		3
27	Vision Information and Laser Module Based UAV Target Tracking **2019**,		3
26	Neural network based global adaptive dynamic surface tracking control for robot manipulators **2016**,		2
25	Methodological Guidelines for Publishing Library Data as Linked Data **2017**,		2
24	An accumulated-QoS-first search approach for semantic web service composition **2010**,		2
23	An efficient QoS-driven service compositon approach for large-scale service oriented systems **2009**,		2
22	Sliding mode control of multi-agent system with application to UAV air combat. *Computers and Electrical Engineering*, **2021**, 96, 107491	4.3	2
21	Adaptive Neural Control of a Quadrotor Helicopter with Extreme Learning Machine. *Proceedings in Adaptation, Learning and Optimization*, **2015**, 125-134	0.2	2
20	Robust Adaptive Fuzzy Tracking Control for Uncertain MIMO Nonlinear Nonminimum Phase System. *IEEE Transactions on Systems, Man, and Cybernetics: Systems*, **2020**, 50, 2017-2028	7.3	2
19	Adaptive Learning Control of Switched Strict-Feedback Nonlinear Systems With Dead Zone Using NN and DOB. *IEEE Transactions on Neural Networks and Learning Systems*, **2021**, PP,	10.3	2
18	Finite-Time Robust Intelligent Control of Strict-Feedback Nonlinear Systems With Flight Dynamics Application. *IEEE Transactions on Neural Networks and Learning Systems*, **2021**, PP,	10.3	2
17	Harmonic disturbance observer-based sliding mode control of MEMS gyroscopes. *Science China Information Sciences*, **2022**, 65, 1	3.4	2

16	Efficient Learning Control of Uncertain Fractional-Order Chaotic Systems With Disturbance. *IEEE Transactions on Neural Networks and Learning Systems*, **2020**, PP,	10.3	1
15	Adaptive discrete-time control with dual neural networks for HFV via back-stepping **2013**,		1
14	Peaking Free HGO Based Neural Hypersonic Flight Vehicle Control **2012**,		1
13	Distributed H_/L∞ fault detection observer design for linear systems. *IFAC-PapersOnLine*, **2020**, 53, 688-693	3.7	1
12	Intelligent Control of Flexible Hypersonic Flight Dynamics With Input Dead Zone Using Singular Perturbation Decomposition.. *IEEE Transactions on Neural Networks and Learning Systems*, **2021**, PP,	10.3	1
11	Neural sliding mode control of low-altitude flying UAV considering wave effect. *Computers and Electrical Engineering*, **2021**, 96, 107505	4.3	1
10	Evasion guidance for air-breathing hypersonic vehicles against unknown pursuer dynamics. *Neural Computing and Applications*,1	4.8	1
9	Analysis of College Students Public Opinion Based on Machine Learning and Evolutionary Algorithm. *Complexity*, **2019**, 2019, 1-10	1.6	1
8	A Model-Free Approach for Online Optimization of Nonlinear Systems. *IEEE Transactions on Circuits and Systems II: Express Briefs*, **2021**, 1-1	3.5	1
7	Virtual Guidance-Based Coordinated Tracking Control of Multi-Autonomous Underwater Vehicles Using Composite Neural Learning. *IEEE Transactions on Neural Networks and Learning Systems*, **2021**, 32, 5565-5574	10.3	1
6	Locally Weighted Learning Robot Control With Improved Parameter Convergence. *IEEE Transactions on Industrial Electronics*, **2022**, 1-1	8.9	0
5	Composite Learning Control of Hypersonic Flight Dynamics Without Back-Stepping. *Lecture Notes in Computer Science*, **2017**, 212-218	0.9	0
4	Robust Neural Direct Hypersonic Flight Control Under Actuator Saturation. *Communications in Computer and Information Science*, **2019**, 406-414	0.3	
3	Robust Adaptive Neural Fault-Tolerant Control of Hypersonic Flight Vehicle. *Communications in Computer and Information Science*, **2017**, 44-51	0.3	
2	Dynamic Surface Control of Hypersonic Aircraft with Parameter Estimation. *Advances in Intelligent Systems and Computing*, **2014**, 667-677	0.4	
1	Intelligent Control in Discrete Time for Autonomous Systems. *Discrete Dynamics in Nature and Society*, **2016**, 2016, 1-2	1.1	