# Bin Xu

List of Publications by Year
in descending order



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|---|---|---|---|
| 152 papers | 6,005 citations | 87888 38 h-index | 79698 73 g-index |
| 155 all docs | 155 docs citations | 155 times ranked | 3201 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Adaptive Learning Control of Switched Strict-Feedback Nonlinear Systems With Dead Zone Using NN and DOB. IEEE Transactions on Neural Networks and Learning Systems, 2023, 34, 2503-2512. | 11.3 | 6 |
| 2 | Adaptive Control of Uncertain Nonlinear Systems via Event-Triggered Communication and NN Learning. IEEE Transactions on Cybernetics, 2023, 53, 2391-2401. | 9.5 | 4 |
| 3 | Intelligent Control of Flexible Hypersonic Flight Dynamics With Input Dead Zone Using Singular Perturbation Decomposition. IEEE Transactions on Neural Networks and Learning Systems, 2023, 34, 5926-5936. | 11.3 | 13 |
| 4 | Predefined-Time Hierarchical Coordinated Neural Control for Hypersonic Reentry Vehicle. IEEE Transactions on Neural Networks and Learning Systems, 2023, 34, 8456-8466. | 11.3 | 8 |
| 5 | Robust Adaptive Learning Control of Space Robot for Target Capturing Using Neural Network. IEEE Transactions on Neural Networks and Learning Systems, 2023, 34, 7567-7577. | 11.3 | 7 |
| 6 | A singularityâ€free online neural networkâ€based sliding mode control of the fixedâ€wing unmanned aerial vehicle optimal perching maneuver. Optimal Control Applications and Methods, 2023, 44, 1425-1440. | 2.1 | 6 |
| 7 | Neural network-based sliding mode control for satellite attitude tracking. Advances in Space Research, 2023, 71, 3565-3573. | 2.6 | 2 |
| 8 | Adaptive Control of Uncertain Nonlinear Time-Delay Systems With External Disturbance. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2022, 52, 1288-1295. | 9.3 | 25 |
| 9 | Efficient Learning Control of Uncertain Fractional-Order Chaotic Systems With Disturbance. IEEE Transactions on Neural Networks and Learning Systems, 2022, 33, 445-450. | 11.3 | 5 |
| 10 | Disturbance Observer-Based Fault-Tolerant Control for Robotic Systems With Guaranteed Prescribed Performance. IEEE Transactions on Cybernetics, 2022, 52, 772-783. | 9.5 | 53 |
| 11 | A Model-Free Approach for Online Optimization of Nonlinear Systems. IEEE Transactions on Circuits and Systems II: Express Briefs, 2022, 69, 109-113. | 3.0 | 4 |
| 12 | H<sub>âˆž</sub>  Codesign for Uncertain Nonlinear Control Systems Based on Policy Iteration Method. IEEE Transactions on Cybernetics, 2022, 52, 10101-10110. | 9.5 | 29 |
| 13 | Finite-Time Robust Intelligent Control of Strict-Feedback Nonlinear Systems With Flight Dynamics Application. IEEE Transactions on Neural Networks and Learning Systems, 2022, 33, 6173-6182. | 11.3 | 12 |
| 14 | Event-Triggered Adaptive Control of Uncertain Nonlinear Systems With Composite Condition. IEEE Transactions on Neural Networks and Learning Systems, 2022, 33, 6030-6037. | 11.3 | 5 |
| 15 | Harmonic disturbance observer-based sliding mode control of MEMS gyroscopes. Science China Information Sciences, 2022, 65, 1. | 4.3 | 5 |
| 16 | Finiteâ€time formation control and obstacle avoidance of multiâ€agent system with application. International Journal of Robust and Nonlinear Control, 2022, 32, 2883-2901. | 3.7 | 16 |
| 17 | Evasion guidance for air-breathing hypersonic vehicles against unknown pursuer dynamics. Neural Computing and Applications, 2022, 34, 5213-5224. | 5.6 | 4 |
| 18 | Output Feedback Control of Micromechanical Gyroscopes Using Neural Networks and Disturbance Observer. IEEE Transactions on Neural Networks and Learning Systems, 2022, 33, 962-972. | 11.3 | 24 |

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| 19 | Finite time observerâ€based output feedback control of MEMS gyroscopes with input saturation. International Journal of Robust and Nonlinear Control, 2022, 32, 4300-4317. | 3.7 | 3 |
| 20 | Locally Weighted Learning Robot Control With Improved Parameter Convergence. IEEE Transactions on Industrial Electronics, 2022, 69, 13236-13244. | 7.9 | 7 |
| 21 | Asymmetric integral BLF based stateâ€constrained flight control using NN and DOB. International Journal of Robust and Nonlinear Control, 2022, 32, 3021-3038. | 3.7 | 7 |
| 22 | Compound FAT-based prespecified performance learning control of robotic manipulators with actuator dynamics. ISA Transactions, 2022, 131, 246-263. | 5.7 | 10 |
| 23 | Nonlinearity compensation based robust tracking control of nonlinear nonminimum phase hypersonic flight vehicles. ISA Transactions, 2022, 131, 236-245. | 5.7 | 2 |
| 24 | Terminal Sliding Mode Control of MEMS Gyroscopes With Finite-Time Learning. IEEE Transactions on Neural Networks and Learning Systems, 2021, 32, 4490-4498. | 11.3 | 17 |
| 25 | Serial-Parallel Estimation Model-Based Sliding Mode Control of MEMS Gyroscopes. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2021, 51, 7764-7775. | 9.3 | 13 |
| 26 | Interval Estimation for Uncertain Systems via Polynomial Chaos Expansions. IEEE Transactions on Automatic Control, 2021, 66, 468-475. | 5.7 | 8 |
| 27 | Robust Adaptive Neural Control of Nonminimum Phase Hypersonic Vehicle Model. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2021, 51, 1107-1115. | 9.3 | 58 |
| 28 | Composite Learning Fuzzy Control of Stochastic Nonlinear Strict-Feedback Systems. IEEE Transactions on Fuzzy Systems, 2021, 29, 705-715. | 9.8 | 18 |
| 29 | 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. | 11.3 | 26 |
| 30 | Aerodynamic/reaction-jet compound control of hypersonic reentry vehicle using sliding mode control and neural learning. Aerospace Science and Technology, 2021, 111, 106564. | 4.8 | 25 |
| 31 | Kalman-filter-based robust control for hypersonic flight vehicle with measurement noises. Aerospace Science and Technology, 2021, 112, 106566. | 4.8 | 15 |
| 32 | Robust Intelligent Control of SISO Nonlinear Systems Using Switching Mechanism. IEEE Transactions on Cybernetics, 2021, 51, 3975-3987. | 9.5 | 22 |
| 33 | Predefined-Time Asymptotic Tracking Control for Hypersonic Flight Vehicles With Input Quantization and Faults. IEEE Transactions on Aerospace and Electronic Systems, 2021, 57, 2826-2837. | 4.7 | 28 |
| 34 | Hybrid Intelligent Feedforward-Feedback Pitch Control for VSWT With Predicted Wind Speed. IEEE Transactions on Energy Conversion, 2021, 36, 2770-2781. | 5.2 | 29 |
| 35 | Neural sliding mode control of low-altitude flying UAV considering wave effect. Computers and Electrical Engineering, 2021, 96, 107505. | 4.8 | 4 |
| 36 | Sliding mode control of multi-agent system with application to UAV air combat. Computers and Electrical Engineering, 2021, 96, 107491. | 4.8 | 18 |

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| 37 | Optimal design of a scaled-up PRO system using swarm intelligence approach. Science China Information Sciences, 2021, 64, 1. | 4.3 | 59 |
| 38 | Robust Adaptive Fuzzy Tracking Control for Uncertain MIMO Nonlinear Nonminimum Phase System. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2020, 50, 2017-2028. | 9.3 | 4 |
| 39 | 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. | 11.3 | 50 |
| 40 | Composite Neural Learning-Based Nonsingular Terminal Sliding Mode Control of MEMS Gyroscopes. IEEE Transactions on Neural Networks and Learning Systems, 2020, 31, 1375-1386. | 11.3 | 63 |
| 41 | Disturbance Observer-based Control of Quadrotors with Motor Response Delay and Throttle Nonlinearity. , 2020, , . | | 2 |
| 42 | Finite-time prescribed performance control of MEMS gyroscopes. Nonlinear Dynamics, 2020, 101, 2223-2234. | 5.2 | 28 |
| 43 | Robust adaptive control of hypersonic flight vehicle with asymmetric AOA constraint. Science China Information Sciences, 2020, 63, 1. | 4.3 | 9 |
| 44 | 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. | 5.2 | 23 |
| 45 | Evasion guidance algorithms for air-breathing hypersonic vehicles in three-player pursuit-evasion games. Chinese Journal of Aeronautics, 2020, 33, 3423-3436. | 5.3 | 12 |
| 46 | Analysis and design of a distributed <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" id="d1e178" altimg="si114.svg"><mml:mi>k</mml:mi></mml:math>-winners-take-all model. Automatica, 2020, 115, 108868. | 5.0 | 17 |
| 47 | Universal Adaptive Neural Network Predictive Algorithm for Remotely Piloted Unmanned Combat Aerial Vehicle in Wireless Sensor Network. Sensors, 2020, 20, 2213. | 3.8 | 1 |
| 48 | Distributed H_/Lâˆž fault detection observer design for linear systems. IFAC-PapersOnLine, 2020, 53, 688-693. | 0.9 | 2 |
| 49 | Uncalibrated downward-looking UAV visual compass based on clustered point features. Science China Information Sciences, 2019, 62, 1. | 4.3 | 8 |
| 50 | Robust Neural Direct Hypersonic Flight Control Under Actuator Saturation. Communications in Computer and Information Science, 2019, , 406-414. | 0.5 | 0 |
| 51 | Composite learning adaptive sliding mode control for AUV target tracking. Neurocomputing, 2019, 351, 180-186. | 5.9 | 39 |
| 52 | Vision Information and Laser Module Based UAV Target Tracking. , 2019, , . | | 3 |
| 53 | Analysis of College Studentsâ€™ Public Opinion Based on Machine Learning and Evolutionary Algorithm. Complexity, 2019, 2019, 1-10. | 1.6 | 3 |
| 54 | Adaptive Hypersonic Flight Control under Asymmetric AOA Constraint. , 2019, , . | | 0 |

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| 55 | Neural Learning Control of Strict-Feedback Systems Using Disturbance Observer. IEEE Transactions on Neural Networks and Learning Systems, 2019, 30, 1296-1307. | 11.3 | 93 |
| 56 | Adaptive neural control of unknown non-affine nonlinear systems with input deadzone and unknown disturbance. Nonlinear Dynamics, 2019, 95, 1283-1299. | 5.2 | 16 |
| 57 | Barrier Lyapunov Function Based Learning Control of Hypersonic Flight Vehicle With AOA Constraint and Actuator Faults. IEEE Transactions on Cybernetics, 2019, 49, 1047-1057. | 9.5 | 164 |
| 58 | Composite Learning Control of MIMO Systems With Applications. IEEE Transactions on Industrial Electronics, 2018, 65, 6414-6424. | 7.9 | 70 |
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| 61 | Robust Adaptive Fuzzy Control for HFV With Parameter Uncertainty and Unmodeled Dynamics. IEEE Transactions on Industrial Electronics, 2018, 65, 8851-8860. | 7.9 | 61 |
| 62 | Composite Learning Finite-Time Control With Application to Quadrotors. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2018, 48, 1806-1815. | 9.3 | 110 |
| 63 | Composite Intelligent Learning Control of Strict-Feedback Systems With Disturbance. IEEE Transactions on Cybernetics, 2018, 48, 730-741. | 9.5 | 147 |
| 64 | Real Estate Confidence Index Based on Real Estate News. Emerging Markets Finance and Trade, 2018, 54, 747-760. | 3.1 | 7 |
| 65 | Composite Learning Control of Flexible-Link Manipulator Using NN and DOB. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2018, 48, 1979-1985. | 9.3 | 74 |
| 66 | Sliding mode control of MEMS gyroscopes using composite learning. Neurocomputing, 2018, 275, 2555-2564. | 5.9 | 17 |
| 67 | Two controller designs of hypersonic flight vehicle under actuator dynamics and AOA constraint. Aerospace Science and Technology, 2018, 80, 11-19. | 4.8 | 21 |
| 68 | 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. | 9.3 | 129 |
| 69 | 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. | 9.3 | 150 |
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| 74 | Adaptive sliding mode control of nonâ€linear nonâ€minimum phase system with input delay. IET Control Theory and Applications, 2017, 11, 1153-1161. | 2.1 | 17 |
| 75 | 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. | 2.7 | 64 |
| 76 | Nonlinear adaptive tracking control of non-minimum phase hypersonic flight vehicles with unknown input nonlinearity. Nonlinear Dynamics, 2017, 90, 1151-1163. | 5.2 | 15 |
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| 86 | An Approach of Ontology Based Knowledge Base Construction for Chinese K12 Education. , 2016, , . | | 8 |
| 87 | Failure prognosis of multiple uncertainty system based on Kalman filter and its application to aircraft fuel system. Advances in Mechanical Engineering, 2016, 8, 168781401667144. | 1.6 | 12 |
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| 104 | Measuring Credit of Web Service. , 2014, , . | | 2 |
| 105 | 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. | 3.4 | 59 |
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| 110 | Discrete-time hypersonic flight control based on extreme learning machine. Neurocomputing, 2014, 128, 232-241. | 5.9 | 47 |
| 111 | Composite Neural Dynamic Surface Control of a Class of Uncertain Nonlinear Systems in Strict-Feedback Form. IEEE Transactions on Cybernetics, 2014, 44, 2626-2634. | 9.5 | 379 |
| 112 | Decomposition of the Kennaugh Matrix Based on a New Norm. IEEE Geoscience and Remote Sensing Letters, 2014, 11, 1000-1004. | 3.1 | 10 |
| 113 | Dynamic Surface Control of Hypersonic Aircraft with Parameter Estimation. Advances in Intelligent Systems and Computing, 2014, , 667-677. | 0.6 | 1 |
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| 118 | Adaptive discrete-time control with dual neural networks for HFV via back-stepping. , 2013, , . | | 2 |
| 119 | High-Accuracy TDOA-Based Localization without Time Synchronization. IEEE Transactions on Parallel and Distributed Systems, 2013, 24, 1567-1576. | 5.6 | 88 |
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| 121 | Fuzzy adaptive control for pure-feedback system via time scale separation. International Journal of Control, Automation and Systems, 2013, 11, 147-158. | 2.7 | 24 |
| 122 | A Survey of Social-Based Routing in Delay Tolerant Networks: Positive and Negative Social Effects. IEEE Communications Surveys and Tutorials, 2013, 15, 387-401. | 39.4 | 252 |
| 123 | Link Characteristics Measuring in 2.4â€‰GHz Body Area Sensor Networks. International Journal of Distributed Sensor Networks, 2012, 8, 519792. | 2.2 | 4 |
| 124 | Discrete flight path angle tracking control of hypersonic flight vehicles via multi-rate sampling. , 2012, , . | | 1 |
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| 126 | Adaptive asymptotic tracking control of strict-feedback nonlinear discrete-time system with periodic time delay. , 2012, , . | | 0 |

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| 129 | Peaking Free HGO Based Neural Hypersonic Flight Vehicle Control. , 2012, , . | | 1 |
| 130 | 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 | 23 |
| 131 | iWeb: A Service-Oriented Web Application Framework with Service Selection over QoS and Context. , 2011, , . | | 4 |
| 132 | Composite control based on optimal torque control and adaptive Kriging control for the CRAB rover. , 2011, , . | | 1 |
| 133 | Distributed Multi-Actuator Control for Workload Balancing in Wireless Sensor and Actuator Networks. IEEE Transactions on Automatic Control, 2011, 56, 2462-2467. | 5.7 | 15 |
| 134 | Adaptive discrete-time controller design with neural network for hypersonic flight vehicle via back-stepping. International Journal of Control, 2011, 84, 1543-1552. | 1.9 | 144 |
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| 143 | Compose Real Web Services with Context. , 2010, , . | | 4 |
| 144 | A QoS-Driven Approach for Semantic Service Composition. , 2009, , . | | 29 |

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| 146 | Automatic Service Composition Using AND/OR Graph. Advanced Issues of E-Commerce and Web-Based Information Systems (WECWIS), International Workshop on, 2008, , . | 0.0 | 29 |
| 147 | Automatic Service Composition Based on Enhanced Service Dependency Graph. , 2008, , . | | 35 |
| 148 | Inheritance-Aware Document-Driven Service Composition. , 2007, , . | | 6 |
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| 150 | SWSDS: Quick Web Service Discovery and Composition in SEWSIP. , 2006, , . | | 10 |
| 151 | A Semantic Matchmaker for Ranking Web Services. Journal of Computer Science and Technology, 2006, 21, 574-581. | 1.5 | 5 |
| 152 | Coordinated adaptive control of hypersonic reentry vehicle considering channel coupling. Mathematical Methods in the Applied Sciences, 0, , . | 2.3 | 0 |