# Tieshan Li

List of Publications by Year
in descending order

| 119 | 6,872 | 94381 | 60583 |
| papers | citations | 37 | 81 |
| | | h-index | g-index |

| 122 | 122 | 122 | 3326 |
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---------|-----|-----------|
| 1 | Observer-Based Adaptive Fuzzy Tracking Control of MIMO Stochastic Nonlinear Systems With Unknown Control Directions and Unknown Dead Zones. IEEE Transactions on Fuzzy Systems, 2015, 23, 1228-1241. | 6.5 | 427 |
| 2 | Composite Adaptive Fuzzy Output Feedback Control Design for Uncertain Nonlinear Strict-Feedback Systems With Input Saturation. IEEE Transactions on Cybernetics, 2015, 45, 2299-2308. | 6.2 | 425 |
| 3 | Adaptive Fuzzy Output Feedback Dynamic Surface Control of Interconnected Nonlinear Pure-Feedback Systems. IEEE Transactions on Cybernetics, 2015, 45, 138-149. | 6.2 | 403 |
| 4 | Hybrid Fuzzy Adaptive Output Feedback Control Design for Uncertain MIMO Nonlinear Systems With Time-Varying Delays and Input Saturation. IEEE Transactions on Fuzzy Systems, 2016, 24, 841-853. | 6.5 | 363 |
| 5 | Event-Triggered Finite-Time Control for Networked Switched Linear Systems With Asynchronous Switching. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2018, 48, 1874-1884. | 5.9 | 323 |
| 6 | Finite-Time Formation Control of Under-Actuated Ships Using Nonlinear Sliding Mode Control. IEEE Transactions on Cybernetics, 2018, 48, 3243-3253. | 6.2 | 251 |
| 7 | Adaptive fuzzy output-feedback control for output constrained nonlinear systems in the presence of input saturation. Fuzzy Sets and Systems, 2014, 248, 138-155. | 1.6 | 239 |
| 8 | Adaptive Fuzzy Robust Output Feedback Control of Nonlinear Systems With Unknown Dead Zones Based on a Small-Gain Approach. IEEE Transactions on Fuzzy Systems, 2014, 22, 164-176. | 6.5 | 234 |
| 9 | Output-Feedback Cooperative Formation Maneuvering of Autonomous Surface Vehicles With Connectivity Preservation and Collision Avoidance. IEEE Transactions on Cybernetics, 2020, 50, 2527-2535. | 6.2 | 215 |
| 10 | Output-Feedback Adaptive Neural Control for Stochastic Nonlinear Time-Varying Delay Systems With Unknown Control Directions. IEEE Transactions on Neural Networks and Learning Systems, 2015, 26, 1188-1201. | 7.2 | 213 |
| 11 | Prescribed Performance Consensus of Uncertain Nonlinear Strict-Feedback Systems With Unknown Control Directions. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2016, 46, 1279-1286. | 5.9 | 200 |
| 12 | NN Reinforcement Learning Adaptive Control for a Class of Nonstrict-Feedback Discrete-Time Systems. IEEE Transactions on Cybernetics, 2020, 50, 4573-4584. | 6.2 | 182 |
| 13 | Prescribed Performance Adaptive Fuzzy Containment Control for Nonlinear Multiagent Systems Using Disturbance Observer. IEEE Transactions on Cybernetics, 2020, 50, 3879-3891. | 6.2 | 169 |
| 14 | Adaptive Reinforcement Learning Neural Network Control for Uncertain Nonlinear System With Input Saturation. IEEE Transactions on Cybernetics, 2020, 50, 3433-3443. | 6.2 | 159 |
| 15 | Adaptive fuzzy output feedback control for a single-link flexible robot manipulator driven DC motor via backstepping. Nonlinear Analysis: Real World Applications, 2013, 14, 483-494. | 0.9 | 145 |
| 16 | A Survey of Autonomous Underwater Vehicle Formation: Performance, Formation Control, and Communication Capability. IEEE Communications Surveys and Tutorials, 2021, 23, 815-841. | 24.8 | 145 |
| 17 | Bounded Neural Network Control for Target Tracking of Underactuated Autonomous Surface Vehicles in the Presence of Uncertain Target Dynamics. IEEE Transactions on Neural Networks and Learning Systems, 2019, 30, 1241-1249. | 7.2 | 142 |
| 18 | Adaptive fuzzy output feedback control of uncertain nonlinear systems with unknown backlash-like hysteresis. Information Sciences, 2012, 198, 130-146. | 4.0 | 131 |

| # | Article | IF | Citations |
|---|---------|----|-----------|
| 19 | Modular Adaptive Control for LOS-Based Cooperative Path Maneuvering of Multiple Underactuated Autonomous Surface Vehicles. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2017, 47, 1613-1624. | 5.9 | 128 |
| 20 | Cooperative Path Following Ring-Networked Under-Actuated Autonomous Surface Vehicles: Algorithms and Experimental Results. IEEE Transactions on Cybernetics, 2020, 50, 1519-1529. | 6.2 | 124 |
| 21 | Decentralized adaptive neural control of nonlinear interconnected large-scale systems with unknown time delays and input saturation. Neurocomputing, 2011, 74, 2277-2283. | 3.5 | 110 |
| 22 | Adaptive leader-following formation control with collision avoidance for a class of second-order nonlinear multi-agent systems. Neurocomputing, 2019, 350, 282-290. | 3.5 | 104 |
| 23 | Adaptive neural control for a class of stochastic nonlinear time–delay systems with unknown dead zone using dynamic surface technique. International Journal of Robust and Nonlinear Control, 2016, 26, 759-781. | 2.1 | 97 |
| 24 | Direct adaptive fuzzy backstepping control of uncertain nonlinear systems in the presence of input saturation. Neural Computing and Applications, 2013, 23, 1207-1216. | 3.2 | 89 |
| 25 | Indirect adaptive fuzzy control for input and output constrained nonlinear systems using a barrier Lyapunov function. International Journal of Adaptive Control and Signal Processing, 2014, 28, 184-199. | 2.3 | 86 |
| 26 | Leaderless and leader-follower cooperative control of multiple marine surface vehicles with unknown dynamics. Nonlinear Dynamics, 2013, 74, 95-106. | 2.7 | 82 |
| 27 | Neural Network-Based Adaptive Control for Pure-Feedback Stochastic Nonlinear Systems With Time-Varying Delays and Dead-Zone Input. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2020, 50, 5317-5329. | 5.9 | 82 |
| 28 | Adaptive NN-DSC control design for path following of underactuated surface vessels with input saturation. Neurocomputing, 2017, 267, 466-474. | 3.5 | 67 |
| 29 | Adaptive NN event-triggered control for path following of underactuated vessels with finite-time convergence. Neurocomputing, 2020, 379, 203-213. | 3.5 | 67 |
| 30 | A DSC and MLP based robust adaptive NN tracking control for underwater vehicle. Neurocomputing, 2013, 111, 184-189. | 3.5 | 61 |
| 31 | Adaptive fuzzy output feedback control of MIMO nonlinear uncertain systems with time-varying delays and unknown backlash-like hysteresis. Neurocomputing, 2012, 93, 56-66. | 3.5 | 57 |
| 32 | Adaptive neural control of nonlinear MIMO systems with unknown time delays. Neurocomputing, 2012, 78, 83-88. | 3.5 | 49 |
| 33 | Single neural network approximation based adaptive control for a class of uncertain strict-feedback nonlinear systems. Nonlinear Dynamics, 2013, 72, 175-184. | 2.7 | 48 |
| 34 | Asynchronous Tracking Control of Leader–Follower Multiagent Systems With Input Uncertainties Over Switching Signed Digraphs. IEEE Transactions on Cybernetics, 2022, 52, 6379-6390. | 6.2 | 48 |
| 35 | Adaptive fuzzy control of uncertain MIMO non-linear systems in block-triangular forms. Nonlinear Dynamics, 2011, 63, 105-123. | 2.7 | 43 |
| 36 | Adaptive terminal sliding mode control for anti-synchronization of uncertain chaotic systems. Nonlinear Dynamics, 2013, 74, 991-1002. | 2.7 | 40 |

| # | Article | IF | Citations |
|---|---------|----|-----------| 
| 37 | Adaptive Dynamic Surface Control of Uncertain Nonlinear Time-Delay Systems Based on High-Gain Filter Observer and Fuzzy Neural Networks. Lecture Notes in Computer Science, 2012, , 416-423. | 1.0 | 39 |
| 38 | Decentralized adaptive neural control of nonlinear systems with unknown time delays. Nonlinear Dynamics, 2012, 67, 2017-2026. | 2.7 | 38 |
| 39 | Adaptive robust control based on single neural network approximation for a class of uncertain strict-feedback discrete-time nonlinear systems. Neurocomputing, 2014, 138, 325-331. | 3.5 | 37 |
| 40 | Adaptive neural networks output feedback dynamic surface control design for MIMO pure-feedback nonlinear systems with hysteresis. Neurocomputing, 2016, 198, 58-68. | 3.5 | 37 |
| 41 | Attacks on Formation Control for Multiagent Systems. IEEE Transactions on Cybernetics, 2022, 52, 12805-12817. | 6.2 | 36 |
| 42 | Extended-state-observer-based distributed model predictive formation control of under-actuated unmanned surface vehicles with collision avoidance. Ocean Engineering, 2021, 238, 109587. | 1.9 | 36 |
| 43 | Event-Triggered Output Regulation for Networked Flight Control System Based on an Asynchronous Switched System Approach. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2021, 51, 7675-7684. | 5.9 | 34 |
| 44 | Distributed Containment Maneuvering of Uncertain Multiagent Systems in MIMO Strict-Feedback Form. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2021, 51, 1354-1364. | 5.9 | 33 |
| 45 | A novel neural network-based adaptive control for a class of uncertain nonlinear systems in strict-feedback form. Nonlinear Dynamics, 2015, 79, 1005-1013. | 2.7 | 32 |
| 46 | Observer-based adaptive control for nonlinear strict-feedback stochastic systems with output constraints. International Journal of Robust and Nonlinear Control, 2019, 29, 1515-1536. | 2.1 | 32 |
| 47 | Adaptive cooperative control for a class of nonlinear multi-agent systems with dead zone and input delay. Nonlinear Dynamics, 2019, 96, 2707-2719. | 2.7 | 31 |
| 48 | COLREGs-Compliant Unmanned Surface Vehicles Collision Avoidance Based on Multi-Objective Genetic Algorithm. IEEE Access, 2020, 8, 190367-190377. | 2.6 | 30 |
| 49 | Robust Adaptive Neural Network Control for Strict-Feedback Nonlinear Systems Via Small-Gain Approaches. Lecture Notes in Computer Science, 2006, , 888-897. | 1.0 | 28 |
| 50 | Adaptive NN control for a class of stochastic nonlinear systems with unmodeled dynamics using DSC technique. Neurocomputing, 2015, 149, 142-150. | 3.5 | 28 |
| 51 | An adaptive neural network approach for ship roll stabilization via fin control. Neurocomputing, 2016, 173, 953-957. | 3.5 | 27 |
| 52 | Neural-network-based formation control with collision, obstacle avoidance and connectivity maintenance for a class of second-order nonlinear multi-agent systems. Neurocomputing, 2021, 439, 243-255. | 3.5 | 27 |
| 53 | Fuzzy-approximation adaptive fault-tolerant control for nonlinear pure-feedback systems with unknown control directions and sensor failures. Fuzzy Sets and Systems, 2019, 356, 28-43. | 1.6 | 25 |
| 54 | Online optimal consensus control of unknown linear multi-agent systems via time-based adaptive dynamic programming. Neurocomputing, 2020, 404, 137-144. | 3.5 | 22 |

| # | Article | IF | Citations |
|---|---------|-----|-----------|
| 55 | Neural network based fin control for ship roll stabilization with guaranteed robustness. Neurocomputing, 2017, 230, 210-218. | 3.5 | 21 |
| 56 | A Decision Tree Based Road Recognition Approach Using Roadside Fixed 3D LiDAR Sensors. IEEE Access, 2019, 7, 53878-53890. | 2.6 | 21 |
| 57 | A Survey of Technologies for Unmanned Merchant Ships. IEEE Access, 2020, 8, 224461-224486. | 2.6 | 21 |
| 58 | Adaptive fuzzy modular backstepping output feedback control of uncertain nonlinear systems in the presence of input saturation. International Journal of Machine Learning and Cybernetics, 2013, 4, 527-536. | 2.3 | 20 |
| 59 | Grid index subspace constructed locally weighted learning identification modeling for high dimensional ship maneuvering system. ISA Transactions, 2019, 86, 144-152. | 3.1 | 19 |
| 60 | Fault estimation and fault tolerant control for discrete-time nonlinear systems with perturbation by a mixed design scheme. Journal of the Franklin Institute, 2021, 358, 1860-1887. | 1.9 | 19 |
| 61 | Observer-Based Adaptive Fuzzy Event-Triggered Path Following Control of Marine Surface Vessel. International Journal of Fuzzy Systems, 2021, 23, 2021-2036. | 2.3 | 19 |
| 62 | Event-triggered ISS-modular neural network control for containment maneuvering of nonlinear strict-feedback multi-agent systems. Neurocomputing, 2020, 377, 314-324. | 3.5 | 18 |
| 63 | Data-driven adaptive extended state observer design for autonomous surface vehicles with unknown input gains based on concurrent learning. Neurocomputing, 2022, 467, 337-347. | 3.5 | 18 |
| 64 | Neural network-based event-triggered fault detection for nonlinear Markov jump system with frequency specifications. Nonlinear Dynamics, 2021, 103, 2671-2687. | 2.7 | 17 |
| 65 | Background Noise Filtering and Clustering With 3D LiDAR Deployed in Roadside of Urban Environments. IEEE Sensors Journal, 2021, 21, 20629-20639. | 2.4 | 17 |
| 66 | Robust Fuzzy Adaptive Output Feedback Optimal Tracking Control for Dynamic Positioning of Marine Vessels with Unknown Disturbances and Uncertain Dynamics. International Journal of Fuzzy Systems, 2021, 23, 2283-2296. | 2.3 | 16 |
| 67 | Broad Learning System Approximation-Based Adaptive Optimal Control for Unknown Discrete-Time Nonlinear Systems. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2022, 52, 5028-5038. | 5.9 | 16 |
| 68 | Event‐triggered adaptive fuzzy bipartite consensus control of multiple autonomous underwater vehicles. IET Control Theory and Applications, 2020, 14, 3632-3642. | 1.2 | 16 |
| 69 | Adaptive Decentralized <scp>NN</scp> Control of Nonlinear Interconnected Time‐Delay Systems with Input Saturation. Asian Journal of Control, 2013, 15, 533-542. | 1.9 | 15 |
| 70 | Broad learning system-based adaptive optimal control design for dynamic positioning of marine vessels. Nonlinear Dynamics, 2021, 105, 1593-1609. | 2.7 | 15 |
| 71 | Optimized Backstepping Design for Ship Course Following Control Based on Actor-Critic Architecture With Input Saturation. IEEE Access, 2019, 7, 73516-73528. | 2.6 | 14 |
| 72 | Minimum-Learning-Parameters-Based Adaptive Neural Fault Tolerant Control With Its Application to Continuous Stirred Tank Reactor. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2020, 50, 1275-1285. | 5.9 | 14 |

| # | Article | IF | Citations |
|---|---------|-----|-----------|
| 73 | PWM-driven model predictive speed control for an unmanned surface vehicle with unknown propeller dynamics based on parameter identification and neural prediction. Neurocomputing, 2021, 432, 1-9. | 3.5 | 14 |
| 74 | Virtual guide automatic berthing control of marine ships based on heuristic dynamic programming iteration method. Neurocomputing, 2021, 437, 289-299. | 3.5 | 14 |
| 75 | Online optimal control for dynamic positioning of vessels via time-based adaptive dynamic programming. Journal of Ambient Intelligence and Humanized Computing, 2023, 14, 15629-15641. | 3.3 | 13 |
| 76 | Consensus of multi-agent systems with impulsive perturbations and time-varying delays by dynamic delay interval method. Communications in Nonlinear Science and Numerical Simulation, 2019, 78, 104890. | 1.7 | 12 |
| 77 | Navigation Multisensor Fault Diagnosis Approach for an Unmanned Surface Vessel Adopted Particle-Filter Method. IEEE Sensors Journal, 2021, 21, 27093-27105. | 2.4 | 12 |
| 78 | Direct adaptive NN control of ship course autopilot with input saturation. , 2011, , . | | 11 |
| 79 | Direct Adaptive Fuzzy Tracking Control of Non-affine Stochastic Nonlinear Time-Delay Systems. International Journal of Fuzzy Systems, 2021, 23, 309-321. | 2.3 | 11 |
| 80 | Online event-triggered optimal control for multi-agent systems using simplified ADP and experience replay technique. Nonlinear Dynamics, 2021, 106, 509-522. | 2.7 | 11 |
| 81 | Adaptive Fuzzy Output Feedback Control for High-Order Switched Systems with Fuzzy Dead Zone. Journal of the Franklin Institute, 2019, 356, 7967-7989. | 1.9 | 10 |
| 82 | Observer-Based Adaptive Fuzzy Control for Intelligent Ship Autopilot with Input Saturation. International Journal of Fuzzy Systems, 2020, 22, 1416-1429. | 2.3 | 10 |
| 83 | A peak-to-peak filtering for continuous Takagi-Sugeno fuzzy systems by a local method. Fuzzy Sets and Systems, 2021, 402, 51-77. | 1.6 | 9 |
| 84 | $${L_\infty }$$ Fault Estimation and Fault-Tolerant Control for Nonlinear Systems by T–S Fuzzy Model Method with Local Nonlinear Models. International Journal of Fuzzy Systems, 2021, 23, 1714-1727. | 2.3 | 9 |
| 85 | Adaptive swarm control for high-order self-organized system with unknown heterogeneous nonlinear dynamics and unmeasured states. Neurocomputing, 2021, 440, 24-35. | 3.5 | 9 |
| 86 | Sensor fault estimation in finite-frequency domain for nonlinear time-delayed systems by T–S fuzzy model approach with local nonlinear models. International Journal of Systems Science, 2019, 50, 2226-2247. | 3.7 | 8 |
| 87 | Event-triggered output feedback sliding mode control of mechanical systems. Nonlinear Dynamics, 2022, 107, 3543-3555. | 2.7 | 8 |
| 88 | Impacts of GPS Spoofing on Path Planning of Unmanned Surface Ships. Electronics (Switzerland), 2022, 11, 801. | 1.8 | 8 |
| 89 | NN-based adaptive dynamic surface control for a class of nonlinear systems with input saturation. , 2012, , . | | 7 |
| 90 | Artificial Potential-Based Formation Control with Collision and Obstacle Avoidance for Second-order Multi-Agent Systems. , 2020, , . | | 7 |

| # | Article | IF | Citations |
|---|---------|----|-----------|
| 91 | DSC-backstepping based robust adaptive fuzzy control for a class of strict-feedback nonlinear systems. , 2008, , . | | 6 |
| 92 | A novel decentralised adaptive NN tracking control for double inverted pendulums. International Journal of Modelling, Identification and Control, 2011, 13, 269. | 0.2 | 5 |
| 93 | Decentralized finite-time neural control for time-varying state constrained nonlinear interconnected systems in pure-feedback form. Neurocomputing, 2019, 365, 201-210. | 3.5 | 5 |
| 94 | NN adaptive optimal tracking control for a class of uncertain nonstrict feedback nonlinear systems. Neurocomputing, 2022, 491, 382-394. | 3.5 | 5 |
| 95 | Distributed adaptive impedance control of networked Lagrangian systems with neighborhood interaction feedback. International Journal of Robust and Nonlinear Control, 2022, 32, 2251-2272. | 2.1 | 5 |
| 96 | Traffic Sign Based Point Cloud Data Registration with Roadside LiDARs in Complex Traffic Environments. Electronics (Switzerland), 2022, 11, 1559. | 1.8 | 5 |
| 97 | A novel single fuzzy approximation based adaptive control for a class of uncertain strict-feedback discrete-time nonlinear systems. Neurocomputing, 2015, 167, 179-186. | 3.5 | 4 |
| 98 | Neural Network Based Direct Adaptive Backstepping Method for Fin Stabilizer System. Lecture Notes in Computer Science, 2013, , 212-219. | 1.0 | 4 |
| 99 | Adaptive fuzzy backstepping dynamic surface control of uncertain nonlinear systems based on filters. , 2012, , . | | 2 |
| 100 | Terminal sliding mode control for anti-synchronization of chaotic systems containing dead-zone nonlinearity. , 2014, , . | | 2 |
| 101 | ARPILC: An Approach for Short-Term Prediction of Freeway Entrance Flow. IEEE Access, 2019, 7, 130946-130956. | 2.6 | 2 |
| 102 | Observer-based adaptive fuzzy prescribed performance control for intelligent ship autopilot. Systems Science and Control Engineering, 2021, 9, 489-496. | 1.8 | 2 |
| 103 | Perceptual Fusion of Electronic Chart and Marine Radar Image. Journal of Marine Science and Engineering, 2021, 9, 1245. | 1.2 | 2 |
| 104 | Synchronization of uncertain chaotic systems via an adaptive terminal sliding mode control. , 2014, , . | | 1 |
| 105 | Adaptive Containment Control for Unmanned Surface Vessels. , 2021, , . | | 1 |
| 106 | NN Based Adaptive Dynamic Surface Control for Fully Actuated AUV. Lecture Notes in Computer Science, 2013, , 79-87. | 1.0 | 1 |
| 107 | Robust adaptive fuzzy control of nonlinear systems with input saturation based on DSC and K-filter techniques. , 2012, , . | | 0 |
| 108 | A novel adaptive fuzzy control for a class of discrete-time nonlinear systems in strict-feedback form. , 2014, , . | | 0 |

| # | Article | IF | Citations |
|---|---|---|---|
| 109 | Direct adaptive neural network control of a class of nonlinear systems. , 2014, , . | | 0 |
| 110 | Neural network based robust adaptive tracking control for the automomous underwater vehicle. , 2016, , . | | 0 |
| 111 | Adaptive neural control of pure-feedback stochastic nonlinear systems with multiple unknown time-varying delays. , 2016, , . | | 0 |
| 112 | Design of Ship Heading Autopilot with Input Time-Delay. , 2019, , . | | 0 |
| 113 | Integral Backstepping Based ADRC for Path Following of Underactuated Surface Vessel. , 2021, , . | | 0 |
| 114 | A Novel Reinforcement Learning Control for a class of Strict-feedback Discrete-time Systems via Multi-Gradient Recursive. , 2021, , . | | 0 |
| 115 | Direct Adaptive Neural Dynamic Surface Control of Uncertain Nonlinear Systems with Input Saturation. Lecture Notes in Computer Science, 2012, , 406-415. | 1.0 | 0 |
| 116 | Direct Robust Adaptive NN Tracking Control for Double Inverted Pendulums. Lecture Notes in Computer Science, 2012, , 428-436. | 1.0 | 0 |
| 117 | Adaptive Neural Network Output-Feedback Control for a Class of Discrete-Time Nonlinear Systems in Presence of Input Saturation. Lecture Notes in Computer Science, 2017, , 165-173. | 1.0 | 0 |
| 118 | ESO-based guidance law for distributed path maneuvering of multiple autonomous surface vehicles with a time-varying formation. , 2020, , 287-308. | | 0 |
| 119 | Online optimal control for nonlinear fin stabilizer system of marine vessels via time-based ADP algorithm. , 2020, , . | | 0 |