

# Tie-Shan Li

## List of Publications by Citations

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119  
papers

4,887  
citations

30  
h-index

69  
g-index

134  
ext. papers

6,101  
ext. citations

5.3  
avg, IF

6.62  
L-index

#	Paper	IF	Citations
119	A DSC approach to robust adaptive NN tracking control for strict-feedback nonlinear systems. <i>IEEE Transactions on Systems, Man, and Cybernetics</i> , <b>2010</b> , 40, 915-27		376
118	Observer-Based Adaptive Fuzzy Tracking Control of MIMO Stochastic Nonlinear Systems With Unknown Control Directions and Unknown Dead Zones. <i>IEEE Transactions on Fuzzy Systems</i> , <b>2015</b> , 23, 1228-1241	8.3	374
117	Composite Adaptive Fuzzy Output Feedback Control Design for Uncertain Nonlinear Strict-Feedback Systems With Input Saturation. <i>IEEE Transactions on Cybernetics</i> , <b>2015</b> , 45, 2299-308	10.2	349
116	Observer-Based Adaptive Fuzzy Backstepping Dynamic Surface Control for a Class of MIMO Nonlinear Systems. <i>IEEE Transactions on Systems, Man, and Cybernetics</i> , <b>2011</b> , 41, 1124-35		338
115	Hybrid Fuzzy Adaptive Output Feedback Control Design for Uncertain MIMO Nonlinear Systems With Time-Varying Delays and Input Saturation. <i>IEEE Transactions on Fuzzy Systems</i> , <b>2016</b> , 24, 841-853	8.3	325
114	A Novel Robust Adaptive-Fuzzy-Tracking Control for a Class of Nonlinear Multi-Input/Multi-Output Systems. <i>IEEE Transactions on Fuzzy Systems</i> , <b>2010</b> , 18, 150-160	8.3	240
113	Event-Triggered Finite-Time Control for Networked Switched Linear Systems With Asynchronous Switching. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , <b>2018</b> , 48, 1874-1884	7.3	227
112	Adaptive Fuzzy Robust Output Feedback Control of Nonlinear Systems With Unknown Dead Zones Based on a Small-Gain Approach. <i>IEEE Transactions on Fuzzy Systems</i> , <b>2014</b> , 22, 164-176	8.3	208
111	Adaptive fuzzy output-feedback control for output constrained nonlinear systems in the presence of input saturation. <i>Fuzzy Sets and Systems</i> , <b>2014</b> , 248, 138-155	3.7	186
110	Output-feedback adaptive neural control for stochastic nonlinear time-varying delay systems with unknown control directions. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , <b>2015</b> , 26, 1188-201	10.3	166
109	Finite-Time Formation Control of Under-Actuated Ships Using Nonlinear Sliding Mode Control. <i>IEEE Transactions on Cybernetics</i> , <b>2018</b> , 48, 3243-3253	10.2	146
108	Adaptive fuzzy output feedback control of uncertain nonlinear systems with unknown backlash-like hysteresis. <i>Information Sciences</i> , <b>2012</b> , 198, 130-146	7.7	115
107	NN Reinforcement Learning Adaptive Control for a Class of Nonstrict-Feedback Discrete-Time Systems. <i>IEEE Transactions on Cybernetics</i> , <b>2020</b> , 50, 4573-4584	10.2	108
106	Adaptive fuzzy output feedback control for a single-link flexible robot manipulator driven DC motor via backstepping. <i>Nonlinear Analysis: Real World Applications</i> , <b>2013</b> , 14, 483-494	2.1	107
105	Prescribed Performance Adaptive Fuzzy Containment Control for Nonlinear Multiagent Systems Using Disturbance Observer. <i>IEEE Transactions on Cybernetics</i> , <b>2020</b> , 50, 3879-3891	10.2	95
104	Output-Feedback Cooperative Formation Maneuvering of Autonomous Surface Vehicles With Connectivity Preservation and Collision Avoidance. <i>IEEE Transactions on Cybernetics</i> , <b>2020</b> , 50, 2527-2535	10.2	93
103	Decentralized adaptive neural control of nonlinear interconnected large-scale systems with unknown time delays and input saturation. <i>Neurocomputing</i> , <b>2011</b> , 74, 2277-2283	5.4	92

102	Adaptive Reinforcement Learning Neural Network Control for Uncertain Nonlinear System With Input Saturation. <i>IEEE Transactions on Cybernetics</i> , <b>2020</b> , 50, 3433-3443	10.2	87
101	Adaptive neural control for a class of stochastic nonlinear time-delay systems with unknown dead zone using dynamic surface technique. <i>International Journal of Robust and Nonlinear Control</i> , <b>2016</b> , 26, 759-781	3.6	84
100	Bounded Neural Network Control for Target Tracking of Underactuated Autonomous Surface Vehicles in the Presence of Uncertain Target Dynamics. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , <b>2019</b> , 30, 1241-1249	10.3	81
99	Modular Adaptive Control for LOS-Based Cooperative Path Maneuvering of Multiple Underactuated Autonomous Surface Vehicles. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , <b>2017</b> , 47, 1613-1624	7.3	78
98	Cooperative Path Following Ring-Networked Under-Actuated Autonomous Surface Vehicles: Algorithms and Experimental Results. <i>IEEE Transactions on Cybernetics</i> , <b>2020</b> , 50, 1519-1529	10.2	62
97	Adaptive leader-following formation control with collision avoidance for a class of second-order nonlinear multi-agent systems. <i>Neurocomputing</i> , <b>2019</b> , 350, 282-290	5.4	47
96	Neural Network-Based Adaptive Control for Pure-Feedback Stochastic Nonlinear Systems With Time-Varying Delays and Dead-Zone Input. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , <b>2020</b> , 50, 5317-5329	7.3	45
95	Adaptive neural control of nonlinear MIMO systems with unknown time delays. <i>Neurocomputing</i> , <b>2012</b> , 78, 83-88	5.4	43
94	Single neural network approximation based adaptive control for a class of uncertain strict-feedback nonlinear systems. <i>Nonlinear Dynamics</i> , <b>2013</b> , 72, 175-184	5	39
93	Adaptive fuzzy control of uncertain MIMO non-linear systems in block-triangular forms. <i>Nonlinear Dynamics</i> , <b>2011</b> , 63, 105-123	5	37
92	Adaptive terminal sliding mode control for anti-synchronization of uncertain chaotic systems. <i>Nonlinear Dynamics</i> , <b>2013</b> , 74, 991-1002	5	35
91	Adaptive NN event-triggered control for path following of underactuated vessels with finite-time convergence. <i>Neurocomputing</i> , <b>2020</b> , 379, 203-213	5.4	33
90	Decentralized adaptive neural control of nonlinear systems with unknown time delays. <i>Nonlinear Dynamics</i> , <b>2012</b> , 67, 2017-2026	5	32
89	Adaptive robust control based on single neural network approximation for a class of uncertain strict-feedback discrete-time nonlinear systems. <i>Neurocomputing</i> , <b>2014</b> , 138, 325-331	5.4	29
88	A Survey of Autonomous Underwater Vehicle Formation: Performance, Formation Control, and Communication Capability. <i>IEEE Communications Surveys and Tutorials</i> , <b>2021</b> , 23, 815-841	37.1	28
87	Fault Tolerant Control for Dynamic Positioning of Unmanned Marine Vehicles Based on T-S Fuzzy Model With Unknown Membership Functions. <i>IEEE Transactions on Vehicular Technology</i> , <b>2021</b> , 70, 146-157	6.8	28
86	A novel neural network-based adaptive control for a class of uncertain nonlinear systems in strict-feedback form. <i>Nonlinear Dynamics</i> , <b>2015</b> , 79, 1005-1013	5	27
85	Adaptive Neural Control Using Tangent Time-Varying BLFs for a Class of Uncertain Stochastic Nonlinear Systems With Full State Constraints. <i>IEEE Transactions on Cybernetics</i> , <b>2021</b> , 51, 1943-1953	10.2	27

84	Adaptive NN control for a class of stochastic nonlinear systems with unmodeled dynamics using DSC technique. <i>Neurocomputing</i> , <b>2015</b> , 149, 142-150	5.4	26
83	Modified genetic optimization-based locally weighted learning identification modeling of ship maneuvering with full scale trial. <i>Future Generation Computer Systems</i> , <b>2019</b> , 93, 1036-1045	7.5	21
82	Adaptive cooperative control for a class of nonlinear multi-agent systems with dead zone and input delay. <i>Nonlinear Dynamics</i> , <b>2019</b> , 96, 2707-2719	5	20
81	Robust Adaptive Neural Network Control for Strict-Feedback Nonlinear Systems Via Small-Gain Approaches. <i>Lecture Notes in Computer Science</i> , <b>2006</b> , 888-897	0.9	18
80	An adaptive neural network approach for ship roll stabilization via fin control. <i>Neurocomputing</i> , <b>2016</b> , 173, 953-957	5.4	16
79	Multi-Innovation Gradient Iterative Locally Weighted Learning Identification for A Nonlinear Ship Maneuvering System. <i>China Ocean Engineering</i> , <b>2018</b> , 32, 288-300	1.1	16
78	Active Disturbance Rejection with Sliding Mode Control Based Course and Path Following for Underactuated Ships. <i>Mathematical Problems in Engineering</i> , <b>2013</b> , 2013, 1-9	1.1	16
77	Distributed Fault-Tolerant Containment Control Protocols for the Discrete-Time Multiagent Systems via Reinforcement Learning Method. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , <b>2021</b> , PP,	10.3	15
76	Event-Triggered Multigradient Recursive Reinforcement Learning Tracking Control for Multiagent Systems. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , <b>2021</b> , PP,	10.3	15
75	Neural network based fin control for ship roll stabilization with guaranteed robustness. <i>Neurocomputing</i> , <b>2017</b> , 230, 210-218	5.4	12
74	Adaptive Decentralized NN Control of Nonlinear Interconnected Time-Delay Systems with Input Saturation. <i>Asian Journal of Control</i> , <b>2013</b> , 15, 533-542	1.7	12
73	Sliding mode fault-tolerant control for unmanned marine vehicles with signal quantization and time-delay. <i>Ocean Engineering</i> , <b>2020</b> , 215, 107882	3.9	12
72	Distributed Containment Maneuvering of Uncertain Multiagent Systems in MIMO Strict-Feedback Form. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , <b>2021</b> , 51, 1354-1364	7.3	12
71	Optimized Backstepping Design for Ship Course Following Control Based on Actor-Critic Architecture With Input Saturation. <i>IEEE Access</i> , <b>2019</b> , 7, 73516-73528	3.5	11
70	Adaptive path following controller of underactuated ships using serret-frenet frame. <i>Journal of Shanghai Jiaotong University (Science)</i> , <b>2010</b> , 15, 334-339	0.6	11
69	IBLF-Based Adaptive Neural Control of State-Constrained Uncertain Stochastic Nonlinear Systems. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , <b>2021</b> , PP,	10.3	9
68	Asynchronous Tracking Control of Leader-Follower Multiagent Systems With Input Uncertainties Over Switching Signed Digraphs. <i>IEEE Transactions on Cybernetics</i> , <b>2021</b> , PP,	10.2	9
67	Model-Free Containment Control of Underactuated Surface Vessels Under Switching Topologies Based on Guiding Vector Fields and Data-Driven Neural Predictors. <i>IEEE Transactions on Cybernetics</i> , <b>2021</b> , PP,	10.2	9

66	Adaptive Fuzzy Output Feedback Control for High-Order Switched Systems with Fuzzy Dead Zone. <i>Journal of the Franklin Institute</i> , <b>2019</b> , 356, 7967-7989	4	8
65	. <i>IEEE Internet of Things Journal</i> , <b>2020</b> , 7, 986-1000	10.7	8
64	Grid index subspace constructed locally weighted learning identification modeling for high dimensional ship maneuvering system. <i>ISA Transactions</i> , <b>2019</b> , 86, 144-152	5.5	8
63	Fault estimation and fault tolerant control for discrete-time nonlinear systems with perturbation by a mixed design scheme. <i>Journal of the Franklin Institute</i> , <b>2021</b> , 358, 1860-1887	4	8
62	Consensus of multi-agent systems with impulsive perturbations and time-varying delays by dynamic delay interval method. <i>Communications in Nonlinear Science and Numerical Simulation</i> , <b>2019</b> , 78, 104890	3.7	7
61	Online optimal control for dynamic positioning of vessels via time-based adaptive dynamic programming. <i>Journal of Ambient Intelligence and Humanized Computing</i> , <b>2019</b> , 1	3.7	7
60	ISS-based robust adaptive fuzzy algorithm for maintaining a ship's track. <i>Journal of Marine Science and Application</i> , <b>2007</b> , 6, 1-7	1.2	7
59	A Survey of Technologies for Unmanned Merchant Ships. <i>IEEE Access</i> , <b>2020</b> , 8, 224461-224486	3.5	7
58	Minimum-Learning-Parameters-Based Adaptive Neural Fault Tolerant Control With Its Application to Continuous Stirred Tank Reactor. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , <b>2020</b> , 50, 1275-1285	7.3	7
57	Attacks on Formation Control for Multiagent Systems. <i>IEEE Transactions on Cybernetics</i> , <b>2021</b> , PP,	10.2	7
56	Quantized Output-Feedback Control for Unmanned Marine Vehicles With Thruster Faults via Sliding-Mode Technique. <i>IEEE Transactions on Cybernetics</i> , <b>2021</b> , PP,	10.2	7
55	Event-Triggered Output Regulation for Networked Flight Control System Based on an Asynchronous Switched System Approach. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , <b>2020</b> , 1-10	7.3	6
54	COLREGs-Compliant Unmanned Surface Vehicles Collision Avoidance Based on Multi-Objective Genetic Algorithm. <i>IEEE Access</i> , <b>2020</b> , 8, 190367-190377	3.5	6
53	Command Filter-Based Adaptive Neural Control Design for Nonstrict-Feedback Nonlinear Systems With Multiple Actuator Constraints. <i>IEEE Transactions on Cybernetics</i> , <b>2021</b> , PP,	10.2	6
52	Direct adaptive NN control of ship course autopilot with input saturation <b>2011</b> ,		5
51	Path following control of underactuated ships based on unscented Kalman filter. <i>Journal of Shanghai Jiaotong University (Science)</i> , <b>2010</b> , 15, 108-113	0.6	5
50	Event-triggered adaptive fuzzy bipartite consensus control of multiple autonomous underwater vehicles. <i>IET Control Theory and Applications</i> , <b>2020</b> , 14, 3632-3642	2.5	5
49	Online optimal consensus control of unknown linear multi-agent systems via time-based adaptive dynamic programming. <i>Neurocomputing</i> , <b>2020</b> , 404, 137-144	5.4	5

48	PWM-driven model predictive speed control for an unmanned surface vehicle with unknown propeller dynamics based on parameter identification and neural prediction. <i>Neurocomputing</i> , <b>2021</b> , 432, 1-9	5.4	5
47	Finite-time LOS Path Following of Unmanned Surface Vessels with Time-varying Sideslip Angles and Input Saturation. <i>IEEE/ASME Transactions on Mechatronics</i> , <b>2021</b> , 1-1	5.5	5
46	Asynchronous Frequency-Dependent Fault Detection for Nonlinear Markov Jump Systems Under Wireless Fading Channels. <i>IEEE Transactions on Cybernetics</i> , <b>2021</b> , PP,	10.2	5
45	Neural network-based event-triggered fault detection for nonlinear Markov jump system with frequency specifications. <i>Nonlinear Dynamics</i> , <b>2021</b> , 103, 2671	5	5
44	$(\{L_{\infty}\})$ Fault Estimation and Fault-Tolerant Control for Nonlinear Systems by TB Fuzzy Model Method with Local Nonlinear Models. <i>International Journal of Fuzzy Systems</i> , <b>2021</b> , 23, 1714	3.6	5
43	Extended-state-observer-based distributed model predictive formation control of under-actuated unmanned surface vehicles with collision avoidance. <i>Ocean Engineering</i> , <b>2021</b> , 238, 109587	3.9	5
42	Observer-Based Adaptive Fuzzy Control for Intelligent Ship Autopilot with Input Saturation. <i>International Journal of Fuzzy Systems</i> , <b>2020</b> , 22, 1416-1429	3.6	4
41	A novel single fuzzy approximation based adaptive control for a class of uncertain strict-feedback discrete-time nonlinear systems. <i>Neurocomputing</i> , <b>2015</b> , 167, 179-186	5.4	4
40	Combined adaptive fuzzy control for uncertain MIMO nonlinear systems <b>2009</b> ,		4
39	DSC-backstepping based robust adaptive fuzzy control for a class of strict-feedback nonlinear systems <b>2008</b> ,		4
38	Neural-network-based formation control with collision, obstacle avoidance and connectivity maintenance for a class of second-order nonlinear multi-agent systems. <i>Neurocomputing</i> , <b>2021</b> , 439, 243-255	5.4	4
37	A peak-to-peak filtering for continuous Takagi-Sugeno fuzzy systems by a local method. <i>Fuzzy Sets and Systems</i> , <b>2021</b> , 402, 51-77	3.7	4
36	Background Noise Filtering and Clustering With 3D LiDAR Deployed in Roadside of Urban Environments. <i>IEEE Sensors Journal</i> , <b>2021</b> , 21, 20629-20639	4	4
35	Data-Driven Decision-Support System for Speaker Identification Using E-Vector System. <i>Scientific Programming</i> , <b>2020</b> , 2020, 1-13	1.4	3
34	Sensor fault estimation in finite-frequency domain for nonlinear time-delayed systems by TB fuzzy model approach with local nonlinear models. <i>International Journal of Systems Science</i> , <b>2019</b> , 50, 2226-2247	2.3	3
33	Application of support vector machine to ship steering. <i>Journal of Shanghai Jiaotong University (Science)</i> , <b>2009</b> , 14, 462-466	0.6	3
32	Path following control of underactuated ships based on nonswitch analytic model predictive control. <i>Journal of Control Theory and Applications</i> , <b>2010</b> , 8, 429-434		3
31	Adaptive NN control for a class of strict-feedback nonlinear systems <b>2008</b> ,		3



30	Navigation Multisensor Fault Diagnosis Approach for an Unmanned Surface Vessel Adopted Particle-Filter Method. <i>IEEE Sensors Journal</i> , <b>2021</b> , 1-1	4	3
29	Data-driven adaptive extended state observer design for autonomous surface vehicles with unknown input gains based on concurrent learning. <i>Neurocomputing</i> , <b>2022</b> , 467, 337-347	5.4	3
28	Adaptive swarm control for high-order self-organized system with unknown heterogeneous nonlinear dynamics and unmeasured states. <i>Neurocomputing</i> , <b>2021</b> , 440, 24-35	5.4	3
27	Direct Adaptive Fuzzy Tracking Control of Non-affine Stochastic Nonlinear Time-Delay Systems. <i>International Journal of Fuzzy Systems</i> , <b>2021</b> , 23, 309-321	3.6	3
26	Broad Learning System Approximation-Based Adaptive Optimal Control for Unknown Discrete-Time Nonlinear Systems. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , <b>2021</b> , 1-11	7.3	3
25	General Projection Neural Network Based Nonlinear Model Predictive Control for Multi-Robot Formation and Tracking. <i>IFAC-PapersOnLine</i> , <b>2017</b> , 50, 838-843	0.7	2
24	A novel adaptive NN control for a class of strict-feedback nonlinear systems <b>2009</b> ,		2
23	Artificial Potential-Based Formation Control with Collision and Obstacle Avoidance for Second-order Multi-Agent Systems <b>2020</b> ,		2
22	Observer-Based Adaptive Fuzzy Event-Triggered Path Following Control of Marine Surface Vessel. <i>International Journal of Fuzzy Systems</i> , <b>2021</b> , 23, 2021	3.6	2
21	Robust Fuzzy Adaptive Output Feedback Optimal Tracking Control for Dynamic Positioning of Marine Vessels with Unknown Disturbances and Uncertain Dynamics. <i>International Journal of Fuzzy Systems</i> , <b>2021</b> , 23, 2283	3.6	2
20	Impacts of GPS Spoofing on Path Planning of Unmanned Surface Ships. <i>Electronics (Switzerland)</i> , <b>2022</b> , 11, 801	2.6	2
19	Terminal sliding mode control for anti-synchronization of chaotic systems containing dead-zone nonlinearity <b>2014</b> ,		1
18	Synchronization of uncertain chaotic systems via an adaptive terminal sliding mode control <b>2014</b> ,		1
17	Adaptive fuzzy backstepping dynamic surface control of uncertain nonlinear systems based on filters <b>2012</b> ,		1
16	DSC Approach to Robust Adaptive Fuzzy Tracking Control for Strict-Feedback Nonlinear Systems <b>2008</b> ,		1
15	Vessel Navigation Behavior Analysis and Multiple-Trajectory Prediction Model Based on AIS Data. <i>Journal of Advanced Transportation</i> , <b>2022</b> , 2022, 1-10	1.9	1
14	Event-triggered output feedback sliding mode control of mechanical systems. <i>Nonlinear Dynamics</i> , <b>2022</b> , 107, 3543	5	1
13	Virtual guide automatic berthing control of marine ships based on heuristic dynamic programming iteration method. <i>Neurocomputing</i> , <b>2021</b> , 437, 289-299	5.4	1

12	Broad learning system-based adaptive optimal control design for dynamic positioning of marine vessels. <i>Nonlinear Dynamics</i> , <b>2021</b> , 105, 1593-1609	5	1
11	A Euclidean metric based voice feature extraction method using IDCT cepstrum coefficient <b>2019</b> ,		1
10	A new fault tolerant control scheme for non-linear systems by T-S fuzzy model approach. <i>IET Control Theory and Applications</i> , <b>2021</b> , 15, 1915-1930	2.5	1
9	Design of PID Controller Based on Echo State Network With Time-Varying Reservoir Parameter. <i>IEEE Transactions on Cybernetics</i> , <b>2021</b> , PP,	10.2	1
8	Observer-based adaptive fuzzy prescribed performance control for intelligent ship autopilot. <i>Systems Science and Control Engineering</i> , <b>2021</b> , 9, 489-496	2	1
7	Online event-triggered optimal control for multi-agent systems using simplified ADP and experience replay technique. <i>Nonlinear Dynamics</i> , <b>2021</b> , 106, 509-522	5	1
6	A collision feedback based multiple access control protocol for very high frequency data exchange system in E-navigation. <i>Journal of Navigation</i> , <b>2021</b> , 74, 822-837	2.3	0
5	NN adaptive optimal tracking control for a class of uncertain nonstrict feedback nonlinear systems. <i>Neurocomputing</i> , <b>2022</b> , 491, 382-394	5.4	0
4	Traffic Sign Based Point Cloud Data Registration with Roadside LiDARs in Complex Traffic Environments. <i>Electronics (Switzerland)</i> , <b>2022</b> , 11, 1559	2.6	0
3	Perceptual Fusion of Electronic Chart and Marine Radar Image. <i>Journal of Marine Science and Engineering</i> , <b>2021</b> , 9, 1245	2.4	
2	ESO-based guidance law for distributed path maneuvering of multiple autonomous surface vehicles with a time-varying formation <b>2020</b> , 287-308		
1	Distributed adaptive impedance control of networked Lagrangian systems with neighborhood interaction feedback. <i>International Journal of Robust and Nonlinear Control</i> , <b>2022</b> , 32, 2251-2272	3.6	