

# Tie-Shan Li

## List of Publications by Year in Descending Order

**Source:** <https://exaly.com/author-pdf/7408015/tie-shan-li-publications-by-year.pdf>

**Version:** 2024-04-25

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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

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	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
118	Event-triggered output feedback sliding mode control of mechanical systems. <i>Nonlinear Dynamics</i> , <b>2022</b> , 107, 3543	5	1
117	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
116	Impacts of GPS Spoofing on Path Planning of Unmanned Surface Ships. <i>Electronics (Switzerland)</i> , <b>2022</b> , 11, 801	2.6	2
115	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
114	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	
113	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
112	Perceptual Fusion of Electronic Chart and Marine Radar Image. <i>Journal of Marine Science and Engineering</i> , <b>2021</b> , 9, 1245	2.4	
111	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
110	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
109	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
108	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
107	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
106	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
105	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
104	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
103	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

102	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
101	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
100	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
99	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
98	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
97	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
96	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
95	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
94	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
93	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
92	Attacks on Formation Control for Multiagent Systems. <i>IEEE Transactions on Cybernetics</i> , <b>2021</b> , PP,	10.2	7
91	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
90	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
89	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
88	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
87	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
86	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
85	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

84	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
83	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
82	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
81	( $\infty$ ) 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
80	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
79	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
78	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
77	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
76	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
75	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
74	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
73	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
72	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
71	Artificial Potential-Based Formation Control with Collision and Obstacle Avoidance for Second-order Multi-Agent Systems <b>2020</b> ,		2
70	ESO-based guidance law for distributed path maneuvering of multiple autonomous surface vehicles with a time-varying formation <b>2020</b> , 287-308		
69	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
68	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
67	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

66	. <i>IEEE Internet of Things Journal</i> , <b>2020</b> , 7, 986-1000	10.7	8
65	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
64	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
63	A Survey of Technologies for Unmanned Merchant Ships. <i>IEEE Access</i> , <b>2020</b> , 8, 224461-224486	3.5	7
62	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
61	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
60	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
59	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 <sup>10.2</sup>		93
58	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
57	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
56	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
55	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
54	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
53	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
52	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
51	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 <sup>2.3</sup>		3
50	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
49	A Euclidean metric based voice feature extraction method using IDCT cepstrum coefficient <b>2019</b> ,		1

48	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
47	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
46	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
45	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
44	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
43	Neural network based fin control for ship roll stabilization with guaranteed robustness. <i>Neurocomputing</i> , <b>2017</b> , 230, 210-218	5.4	12
42	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
41	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
40	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
39	An adaptive neural network approach for ship roll stabilization via fin control. <i>Neurocomputing</i> , <b>2016</b> , 173, 953-957	5.4	16
38	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
37	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, 1188-1201	10.3	166
36	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
35	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
34	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
33	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
32	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
31	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

30	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
29	Terminal sliding mode control for anti-synchronization of chaotic systems containing dead-zone nonlinearity <b>2014</b> ,		1
28	Synchronization of uncertain chaotic systems via an adaptive terminal sliding mode control <b>2014</b> ,		1
27	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
26	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
25	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
24	Adaptive terminal sliding mode control for anti-synchronization of uncertain chaotic systems. <i>Nonlinear Dynamics</i> , <b>2013</b> , 74, 991-1002	5	35
23	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
22	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
21	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
20	Adaptive neural control of nonlinear MIMO systems with unknown time delays. <i>Neurocomputing</i> , <b>2012</b> , 78, 83-88	5.4	43
19	Decentralized adaptive neural control of nonlinear systems with unknown time delays. <i>Nonlinear Dynamics</i> , <b>2012</b> , 67, 2017-2026	5	32
18	Adaptive fuzzy backstepping dynamic surface control of uncertain nonlinear systems based on filters <b>2012</b> ,		1
17	Direct adaptive NN control of ship course autopilot with input saturation <b>2011</b> ,		5
16	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
15	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
14	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
13	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

12	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
11	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
10	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
9	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
8	A novel adaptive NN control for a class of strict-feedback nonlinear systems <b>2009</b> ,		2
7	Combined adaptive fuzzy control for uncertain MIMO nonlinear systems <b>2009</b> ,		4
6	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
5	DSC-backstepping based robust adaptive fuzzy control for a class of strict-feedback nonlinear systems <b>2008</b> ,		4
4	Adaptive NN control for a class of strict-feedback nonlinear systems <b>2008</b> ,		3
3	DSC Approach to Robust Adaptive Fuzzy Tracking Control for Strict-Feedback Nonlinear Systems <b>2008</b> ,		1
2	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
1	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