

Tieshan Li

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112
papers

4,624
citations

33
h-index

67
g-index

122
ext. papers

5,727
ext. citations

4.8
avg, IF

6.6
L-index

#	Paper	IF	Citations
112	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> , 2015 , 23, 1228-1241	8.3	374
111	Composite Adaptive Fuzzy Output Feedback Control Design for Uncertain Nonlinear Strict-Feedback Systems With Input Saturation. <i>IEEE Transactions on Cybernetics</i> , 2015 , 45, 2299-308	10.2	349
110	Adaptive fuzzy output feedback dynamic surface control of interconnected nonlinear pure-feedback systems. <i>IEEE Transactions on Cybernetics</i> , 2015 , 45, 138-49	10.2	337
109	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> , 2016 , 24, 841-853	8.3	325
108	Event-Triggered Finite-Time Control for Networked Switched Linear Systems With Asynchronous Switching. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , 2018 , 48, 1874-1884	7.3	227
107	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> , 2014 , 22, 164-176	8.3	208
106	Adaptive fuzzy output-feedback control for output constrained nonlinear systems in the presence of input saturation. <i>Fuzzy Sets and Systems</i> , 2014 , 248, 138-155	3.7	186
105	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> , 2015 , 26, 1188-1201	10.3	166
104	Finite-Time Formation Control of Under-Actuated Ships Using Nonlinear Sliding Mode Control. <i>IEEE Transactions on Cybernetics</i> , 2018 , 48, 3243-3253	10.2	146
103	Prescribed Performance Consensus of Uncertain Nonlinear Strict-Feedback Systems With Unknown Control Directions. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , 2016 , 46, 1279-1286	7.3	133
102	Adaptive fuzzy output feedback control of uncertain nonlinear systems with unknown backlash-like hysteresis. <i>Information Sciences</i> , 2012 , 198, 130-146	7.7	115
101	NN Reinforcement Learning Adaptive Control for a Class of Nonstrict-Feedback Discrete-Time Systems. <i>IEEE Transactions on Cybernetics</i> , 2020 , 50, 4573-4584	10.2	108
100	Adaptive fuzzy output feedback control for a single-link flexible robot manipulator driven DC motor via backstepping. <i>Nonlinear Analysis: Real World Applications</i> , 2013 , 14, 483-494	2.1	107
99	Prescribed Performance Adaptive Fuzzy Containment Control for Nonlinear Multiagent Systems Using Disturbance Observer. <i>IEEE Transactions on Cybernetics</i> , 2020 , 50, 3879-3891	10.2	95
98	Output-Feedback Cooperative Formation Maneuvering of Autonomous Surface Vehicles With Connectivity Preservation and Collision Avoidance. <i>IEEE Transactions on Cybernetics</i> , 2020 , 50, 2527-2535	10.2	93
97	Decentralized adaptive neural control of nonlinear interconnected large-scale systems with unknown time delays and input saturation. <i>Neurocomputing</i> , 2011 , 74, 2277-2283	5.4	92
96	Adaptive Reinforcement Learning Neural Network Control for Uncertain Nonlinear System With Input Saturation. <i>IEEE Transactions on Cybernetics</i> , 2020 , 50, 3433-3443	10.2	87

95	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> , 2016 , 26, 759-781	3.6	84
94	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> , 2019 , 30, 1241-1249	10.3	81
93	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> , 2017 , 47, 1613-1624	7.3	78
92	Indirect adaptive fuzzy control for input and output constrained nonlinear systems using a barrier Lyapunov function. <i>International Journal of Adaptive Control and Signal Processing</i> , 2014 , 28, 184-199	2.8	70
91	Direct adaptive fuzzy backstepping control of uncertain nonlinear systems in the presence of input saturation. <i>Neural Computing and Applications</i> , 2013 , 23, 1207-1216	4.8	66
90	Cooperative Path Following Ring-Networked Under-Actuated Autonomous Surface Vehicles: Algorithms and Experimental Results. <i>IEEE Transactions on Cybernetics</i> , 2020 , 50, 1519-1529	10.2	62
89	Leaderless and leader-follower cooperative control of multiple marine surface vehicles with unknown dynamics. <i>Nonlinear Dynamics</i> , 2013 , 74, 95-106	5	55
88	Adaptive leader-following formation control with collision avoidance for a class of second-order nonlinear multi-agent systems. <i>Neurocomputing</i> , 2019 , 350, 282-290	5.4	47
87	Adaptive NN-DSC control design for path following of underactuated surface vessels with input saturation. <i>Neurocomputing</i> , 2017 , 267, 466-474	5.4	47
86	Adaptive fuzzy output feedback control of MIMO nonlinear uncertain systems with time-varying delays and unknown backlash-like hysteresis. <i>Neurocomputing</i> , 2012 , 93, 56-66	5.4	45
85	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> , 2020 , 50, 5317-5329	7.3	45
84	A DSC and MLP based robust adaptive NN tracking control for underwater vehicle. <i>Neurocomputing</i> , 2013 , 111, 184-189	5.4	44
83	Adaptive neural control of nonlinear MIMO systems with unknown time delays. <i>Neurocomputing</i> , 2012 , 78, 83-88	5.4	43
82	Single neural network approximation based adaptive control for a class of uncertain strict-feedback nonlinear systems. <i>Nonlinear Dynamics</i> , 2013 , 72, 175-184	5	39
81	Adaptive fuzzy control of uncertain MIMO non-linear systems in block-triangular forms. <i>Nonlinear Dynamics</i> , 2011 , 63, 105-123	5	37
80	Adaptive terminal sliding mode control for anti-synchronization of uncertain chaotic systems. <i>Nonlinear Dynamics</i> , 2013 , 74, 991-1002	5	35
79	Adaptive NN event-triggered control for path following of underactuated vessels with finite-time convergence. <i>Neurocomputing</i> , 2020 , 379, 203-213	5.4	33
78	Decentralized adaptive neural control of nonlinear systems with unknown time delays. <i>Nonlinear Dynamics</i> , 2012 , 67, 2017-2026	5	32

77	Adaptive robust control based on single neural network approximation for a class of uncertain strict-feedback discrete-time nonlinear systems. <i>Neurocomputing</i> , 2014 , 138, 325-331	5.4	29
76	Adaptive neural networks output feedback dynamic surface control design for MIMO pure-feedback nonlinear systems with hysteresis. <i>Neurocomputing</i> , 2016 , 198, 58-68	5.4	28
75	A Survey of Autonomous Underwater Vehicle Formation: Performance, Formation Control, and Communication Capability. <i>IEEE Communications Surveys and Tutorials</i> , 2021 , 23, 815-841	37.1	28
74	A novel neural network-based adaptive control for a class of uncertain nonlinear systems in strict-feedback form. <i>Nonlinear Dynamics</i> , 2015 , 79, 1005-1013	5	27
73	Adaptive Dynamic Surface Control of Uncertain Nonlinear Time-Delay Systems Based on High-Gain Filter Observer and Fuzzy Neural Networks. <i>Lecture Notes in Computer Science</i> , 2012 , 416-423	0.9	27
72	Adaptive NN control for a class of stochastic nonlinear systems with unmodeled dynamics using DSC technique. <i>Neurocomputing</i> , 2015 , 149, 142-150	5.4	26
71	Adaptive cooperative control for a class of nonlinear multi-agent systems with dead zone and input delay. <i>Nonlinear Dynamics</i> , 2019 , 96, 2707-2719	5	20
70	Observer-based adaptive control for nonlinear strict-feedback stochastic systems with output constraints. <i>International Journal of Robust and Nonlinear Control</i> , 2019 , 29, 1515-1536	3.6	20
69	Robust Adaptive Neural Network Control for Strict-Feedback Nonlinear Systems Via Small-Gain Approaches. <i>Lecture Notes in Computer Science</i> , 2006 , 888-897	0.9	18
68	An adaptive neural network approach for ship roll stabilization via fin control. <i>Neurocomputing</i> , 2016 , 173, 953-957	5.4	16
67	A Decision Tree Based Road Recognition Approach Using Roadside Fixed 3D LiDAR Sensors. <i>IEEE Access</i> , 2019 , 7, 53878-53890	3.5	15
66	Fuzzy-approximation adaptive fault-tolerant control for nonlinear pure-feedback systems with unknown control directions and sensor failures. <i>Fuzzy Sets and Systems</i> , 2019 , 356, 28-43	3.7	15
65	Adaptive fuzzy modular backstepping output feedback control of uncertain nonlinear systems in the presence of input saturation. <i>International Journal of Machine Learning and Cybernetics</i> , 2013 , 4, 527-536	3.8	14
64	Neural network based fin control for ship roll stabilization with guaranteed robustness. <i>Neurocomputing</i> , 2017 , 230, 210-218	5.4	12
63	Adaptive Decentralized NN Control of Nonlinear Interconnected Time-Delay Systems with Input Saturation. <i>Asian Journal of Control</i> , 2013 , 15, 533-542	1.7	12
62	Event-triggered ISS-modular neural network control for containment maneuvering of nonlinear strict-feedback multi-agent systems. <i>Neurocomputing</i> , 2020 , 377, 314-324	5.4	12
61	Distributed Containment Maneuvering of Uncertain Multiagent Systems in MIMO Strict-Feedback Form. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , 2021 , 51, 1354-1364	7.3	12
60	Optimized Backstepping Design for Ship Course Following Control Based on Actor-Critic Architecture With Input Saturation. <i>IEEE Access</i> , 2019 , 7, 73516-73528	3.5	11

59	Asynchronous Tracking Control of Leader-Follower Multiagent Systems With Input Uncertainties Over Switching Signed Digraphs. <i>IEEE Transactions on Cybernetics</i> , 2021 , PP,	10.2	9
58	Adaptive Fuzzy Output Feedback Control for High-Order Switched Systems with Fuzzy Dead Zone. <i>Journal of the Franklin Institute</i> , 2019 , 356, 7967-7989	4	8
57	Grid index subspace constructed locally weighted learning identification modeling for high dimensional ship maneuvering system. <i>ISA Transactions</i> , 2019 , 86, 144-152	5.5	8
56	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> , 2021 , 358, 1860-1887	4	8
55	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> , 2019 , 78, 104890	3.7	7
54	Online optimal control for dynamic positioning of vessels via time-based adaptive dynamic programming. <i>Journal of Ambient Intelligence and Humanized Computing</i> , 2019 , 1	3.7	7
53	A Survey of Technologies for Unmanned Merchant Ships. <i>IEEE Access</i> , 2020 , 8, 224461-224486	3.5	7
52	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> , 2020 , 50, 1275-1285	7.3	7
51	Attacks on Formation Control for Multiagent Systems. <i>IEEE Transactions on Cybernetics</i> , 2021 , PP,	10.2	7
50	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> , 2020 , 1-10	7.3	6
49	COLREGs-Compliant Unmanned Surface Vehicles Collision Avoidance Based on Multi-Objective Genetic Algorithm. <i>IEEE Access</i> , 2020 , 8, 190367-190377	3.5	6
48	NN-based adaptive dynamic surface control for a class of nonlinear systems with input saturation 2012 ,		5
47	Direct adaptive NN control of ship course autopilot with input saturation 2011 ,		5
46	Event-triggered adaptive fuzzy bipartite consensus control of multiple autonomous underwater vehicles. <i>IET Control Theory and Applications</i> , 2020 , 14, 3632-3642	2.5	5
45	Online optimal consensus control of unknown linear multi-agent systems via time-based adaptive dynamic programming. <i>Neurocomputing</i> , 2020 , 404, 137-144	5.4	5
44	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> , 2021 , 432, 1-9	5.4	5
43	Neural network-based event-triggered fault detection for nonlinear Markov jump system with frequency specifications. <i>Nonlinear Dynamics</i> , 2021 , 103, 2671	5	5
42	($\{L_{\infty}\}$) 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> , 2021 , 23, 1714	3.6	5

41	Extended-state-observer-based distributed model predictive formation control of under-actuated unmanned surface vehicles with collision avoidance. <i>Ocean Engineering</i> , 2021 , 238, 109587	3.9	5
40	Observer-Based Adaptive Fuzzy Control for Intelligent Ship Autopilot with Input Saturation. <i>International Journal of Fuzzy Systems</i> , 2020 , 22, 1416-1429	3.6	4
39	Decentralized finite-time neural control for time-varying state constrained nonlinear interconnected systems in pure-feedback form. <i>Neurocomputing</i> , 2019 , 365, 201-210	5.4	4
38	A novel single fuzzy approximation based adaptive control for a class of uncertain strict-feedback discrete-time nonlinear systems. <i>Neurocomputing</i> , 2015 , 167, 179-186	5.4	4
37	A novel decentralised adaptive NN tracking control for double inverted pendulums. <i>International Journal of Modelling, Identification and Control</i> , 2011 , 13, 269	0.6	4
36	DSC-backstepping based robust adaptive fuzzy control for a class of strict-feedback nonlinear systems 2008 ,		4
35	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> , 2021 , 439, 243-255	5.4	4
34	A peak-to-peak filtering for continuous Takagi-Sugeno fuzzy systems by a local method. <i>Fuzzy Sets and Systems</i> , 2021 , 402, 51-77	3.7	4
33	Background Noise Filtering and Clustering With 3D LiDAR Deployed in Roadside of Urban Environments. <i>IEEE Sensors Journal</i> , 2021 , 21, 20629-20639	4	4
32	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> , 2019 , 50, 2226-2247	2.3	3
31	Navigation Multisensor Fault Diagnosis Approach for an Unmanned Surface Vessel Adopted Particle-Filter Method. <i>IEEE Sensors Journal</i> , 2021 , 1-1	4	3
30	Data-driven adaptive extended state observer design for autonomous surface vehicles with unknown input gains based on concurrent learning. <i>Neurocomputing</i> , 2022 , 467, 337-347	5.4	3
29	Adaptive swarm control for high-order self-organized system with unknown heterogeneous nonlinear dynamics and unmeasured states. <i>Neurocomputing</i> , 2021 , 440, 24-35	5.4	3
28	Direct Adaptive Fuzzy Tracking Control of Non-affine Stochastic Nonlinear Time-Delay Systems. <i>International Journal of Fuzzy Systems</i> , 2021 , 23, 309-321	3.6	3
27	Broad Learning System Approximation-Based Adaptive Optimal Control for Unknown Discrete-Time Nonlinear Systems. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , 2021 , 1-11	7.3	3
26	. <i>IEEE Access</i> , 2019 , 7, 130946-130956	3.5	2
25	Artificial Potential-Based Formation Control with Collision and Obstacle Avoidance for Second-order Multi-Agent Systems 2020 ,		2
24	Neural Network Based Direct Adaptive Backstepping Method for Fin Stabilizer System. <i>Lecture Notes in Computer Science</i> , 2013 , 212-219	0.9	2

23	Observer-Based Adaptive Fuzzy Event-Triggered Path Following Control of Marine Surface Vessel. <i>International Journal of Fuzzy Systems</i> , 2021 , 23, 2021	3.6	2
22	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> , 2021 , 23, 2283	3.6	2
21	Impacts of GPS Spoofing on Path Planning of Unmanned Surface Ships. <i>Electronics (Switzerland)</i> , 2022 , 11, 801	2.6	2
20	Terminal sliding mode control for anti-synchronization of chaotic systems containing dead-zone nonlinearity 2014 ,		1
19	Synchronization of uncertain chaotic systems via an adaptive terminal sliding mode control 2014 ,		1
18	Adaptive fuzzy backstepping dynamic surface control of uncertain nonlinear systems based on filters 2012 ,		1
17	Event-triggered output feedback sliding mode control of mechanical systems. <i>Nonlinear Dynamics</i> , 2022 , 107, 3543	5	1
16	NN Based Adaptive Dynamic Surface Control for Fully Actuated AUV. <i>Lecture Notes in Computer Science</i> , 2013 , 79-87	0.9	1
15	Virtual guide automatic berthing control of marine ships based on heuristic dynamic programming iteration method. <i>Neurocomputing</i> , 2021 , 437, 289-299	5.4	1
14	Broad learning system-based adaptive optimal control design for dynamic positioning of marine vessels. <i>Nonlinear Dynamics</i> , 2021 , 105, 1593-1609	5	1
13	Observer-based adaptive fuzzy prescribed performance control for intelligent ship autopilot. <i>Systems Science and Control Engineering</i> , 2021 , 9, 489-496	2	1
12	Online event-triggered optimal control for multi-agent systems using simplified ADP and experience replay technique. <i>Nonlinear Dynamics</i> , 2021 , 106, 509-522	5	1
11	Dynamic Surface Sliding Mode Algorithm Based on Approximation for Three-Dimensional Trajectory Tracking Control of an AUV. <i>Lecture Notes in Computer Science</i> , 2016 , 177-184	0.9	0
10	NN adaptive optimal tracking control for a class of uncertain nonstrict feedback nonlinear systems. <i>Neurocomputing</i> , 2022 , 491, 382-394	5.4	0
9	Traffic Sign Based Point Cloud Data Registration with Roadside LiDARs in Complex Traffic Environments. <i>Electronics (Switzerland)</i> , 2022 , 11, 1559	2.6	0
8	Perceptual Fusion of Electronic Chart and Marine Radar Image. <i>Journal of Marine Science and Engineering</i> , 2021 , 9, 1245	2.4	
7	ESO-based guidance law for distributed path maneuvering of multiple autonomous surface vehicles with a time-varying formation 2020 , 287-308		
6	Adaptive Neural Network Control for a Class of Stochastic Nonlinear Strict-Feedback Systems. <i>Lecture Notes in Computer Science</i> , 2015 , 53-61	0.9	

- 5 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 0.9
- 4 Direct Adaptive Neural Dynamic Surface Control of Uncertain Nonlinear Systems with Input Saturation. *Lecture Notes in Computer Science*, **2012**, 406-415 0.9
- 3 Direct Robust Adaptive NN Tracking Control for Double Inverted Pendulums. *Lecture Notes in Computer Science*, **2012**, 428-436 0.9
- 2 A Novel Neural Network Based Adaptive Control for a Class of Uncertain Strict-Feedback Nonlinear Systems. *Lecture Notes in Computer Science*, **2014**, 312-320 0.9
- 1 Distributed adaptive impedance control of networked Lagrangian systems with neighborhood interaction feedback. *International Journal of Robust and Nonlinear Control*, **2022**, 32, 2251-2272 3.6