

Lu Liu

List of Publications by Year in descending order

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249298

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citing authors

#	ARTICLE	IF	CITATIONS
1	Network-Based Line-of-Sight Path Tracking of Underactuated Unmanned Surface Vehicles With Experiment Results. <i>IEEE Transactions on Cybernetics</i> , 2022, 52, 10937-10947.	6.2	30
2	An Overview of Recent Advances in Distributed Coordination of Multi-Agent Systems. <i>Unmanned Systems</i> , 2022, 10, 307-325.	2.7	23
3	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.	3.5	18
4	Distributed optimization for coordinated dynamic positioning of multiple surface vessels based on asymptotically stable ESOs. <i>Ocean Engineering</i> , 2022, 246, 110507.	1.9	6
5	Anti-disturbance leader-follower synchronization control of marine vessels for underway replenishment based on robust exact differentiators. <i>Ocean Engineering</i> , 2022, 248, 110686.	1.9	15
6	Online adaptive parameter identification of an unmanned surface vehicle without persistency of excitation. <i>Ocean Engineering</i> , 2022, 250, 110232.	1.9	12
7	Safe-critical formation reconfiguration of multiple unmanned surface vehicles subject to static and dynamic obstacles based on guiding vector fields and fixed-time control barrier functions. <i>Ocean Engineering</i> , 2022, 250, 110821.	1.9	9
8	Resource-aware synchronized path following of multiple unmanned surface vehicles with experiments: A cooperative vector field approach. <i>Control Engineering Practice</i> , 2022, 124, 105184.	3.2	6
9	Data-driven model-free resilient speed control of an autonomous surface vehicle in the presence of actuator anomalies. <i>ISA Transactions</i> , 2022, 127, 251-258.	3.1	4
10	Bipartite Tracking Formation Control of Nonlinear Multi-Agent Systems Using Adaptive Output-Feedback Protocols. <i>IEEE Access</i> , 2022, 10, 70699-70711.	2.6	1
11	Safe cooperative path following with relative-angle-based collision avoidance for multiple underactuated autonomous surface vehicles. <i>Ocean Engineering</i> , 2022, 258, 111670.	1.9	6
12	Observer-Based Finite-Time Control for Distributed Path Maneuvering of Underactuated Unmanned Surface Vehicles With Collision Avoidance and Connectivity Preservation. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , 2021, 51, 5105-5115.	5.9	89
13	Output-Feedback Flocking Control of Multiple Autonomous Surface Vehicles Based on Data-Driven Adaptive Extended State Observers. <i>IEEE Transactions on Cybernetics</i> , 2021, 51, 4611-4622.	6.2	93
14	Distributed Output-Feedback Tracking of Multiple Nonlinear Systems With Unmeasurable States. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , 2021, 51, 477-486.	5.9	52
15	Distributed Path Following of Multiple Under-Actuated Autonomous Surface Vehicles Based on Data-Driven Neural Predictors via Integral Concurrent Learning. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 2021, 32, 5334-5344.	7.2	74
16	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.	3.5	14
17	Coordinated target tracking by multiple unmanned surface vehicles with communication delays based on a distributed event-triggered extended state observer. <i>Ocean Engineering</i> , 2021, 227, 108283.	1.9	45
18	Collision-free Cooperative Kinematic Guidance Laws for Multiple Unmanned Surface Vehicles Subject to Static and Dynamic Obstacles. , 2021, , .		0

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19	Learning to Control of an Under-actuated Autonomous Surface Vehicle Based on Model-based Deep Reinforcement Learning. , 2021, , .		0
20	Prediction-Based Event-triggered Extended State Observers Design for Unmanned Surface Vehicles. , 2021, , .		1
21	Cooperative Diving of Multiple Under-actuated Saucer-type Autonomous Underwater Gliders Based on Linear Extended State Observers. , 2021, , .		0
22	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
23	Self-triggered three-dimensional coordinated path following of disk-type autonomous underwater gliders based on low-frequency learning fuzzy predictors. Ocean Engineering, 2021, 242, 110104.	1.9	5
24	Cooperative Trajectory Tracking of Multiple Unmanned Surface Vehicles via Distributed Time-Varying Optimization. , 2021, , .		0
25	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
26	Adaptive bounded neural network control for coordinated path-following of networked underactuated autonomous surface vehicles under time-varying state-dependent cyber-attack. ISA Transactions, 2020, 104, 212-221.	3.1	40
27	Finite-Time Adaptive Fuzzy Control for Nonstrict-Feedback Nonlinear Systems Via an Event-Triggered Strategy. IEEE Transactions on Fuzzy Systems, 2020, 28, 2164-2174.	6.5	59
28	Containment control with multiple leaders for nonlinear multi-agent systems with unstabilizable linearizations. Neurocomputing, 2020, 380, 43-50.	3.5	14
29	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
30	Event-triggered LOS Guidance for Path Following of an Unmanned Surface Vehicle over Wireless Network. , 2020, , .		1
31	Event-triggered extended state observers design for dynamic positioning vessels subject to unknown sea loads. Ocean Engineering, 2020, 209, 107242.	1.9	81
32	Event-triggered control for containment maneuvering of second-order MIMO multi-agent systems with unmatched uncertainties and disturbances. Chinese Journal of Aeronautics, 2020, 33, 2959-2971.	2.8	15
33	Nonlinear observer design for a robotic unmanned surface vehicle with experiment results. Applied Ocean Research, 2020, 95, 102028.	1.8	15
34	Robust Distributed Guidance and Control of Multiple Autonomous Surface Vehicles based on Extended State Observers and Finite-set Model Predictive Control. , 2020, , .		2
35	ESO-based guidance law for distributed path maneuvering of multiple autonomous surface vehicles with a time-varying formation. , 2020, , 287-308.		0
36	Path Planning of an Saucer-type Autonomous Underwater Glider based on Adaptive Quantum-behaved Particle Swarm Optimization. , 2020, , .		3

#	ARTICLE	IF	CITATIONS
37	Distributed containment maneuvering of uncertain under-actuated unmanned surface vehicles guided by multiple virtual leaders with a formation. <i>Ocean Engineering</i> , 2019, 187, 105996.	1.9	61
38	An Asymptotically Stable Identifier Design for Unmanned Surface Vehicles Based on Neural Networks and Robust Integral Sign of the Error. <i>Lecture Notes in Computer Science</i> , 2019, , 54-61.	1.0	0
39	Path-guided time-varying formation control with collision avoidance and connectivity preservation of under-actuated autonomous surface vehicles subject to unknown input gains. <i>Ocean Engineering</i> , 2019, 191, 106501.	1.9	81
40	Modular neural dynamic surface control for position tracking of permanent magnet synchronous motor subject to unknown uncertainties. <i>Neurocomputing</i> , 2019, 360, 163-171.	3.5	10
41	Output-Feedback Control for Cooperative Diving of Saucer-Type Underwater Gliders Based on a Fuzzy Observer and Event-Triggered Communication. <i>IEEE Access</i> , 2019, 7, 50453-50465.	2.6	8
42	Neural-Network-based Finite-Set Model Predictive Control of an Autonomous Surface Vehicle Powered by an Electrical Motor. , 2019, , .		1
43	Finite-set Model Predictive Speed and Heading Control of Autonomous Surface Vehicles with Unmeasured States. , 2019, , .		1
44	Path-guided Collision-free Formation Guidance Law for a Fleet of Under-actuated Autonomous Surface Vehicles. , 2019, , .		0
45	Event-triggered Modular Neural Network Control for Containment Maneuvering of Second-order MIMO Multi-agent Systems. , 2019, , .		0
46	State recovery and disturbance estimation of unmanned surface vehicles based on nonlinear extended state observers. <i>Ocean Engineering</i> , 2019, 171, 625-632.	1.9	115
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> , 2019, 30, 1241-1249.	7.2	142
48	Intelligent Fuzzy Kinetic Control for an Under-Actuated Autonomous Surface Vehicle via Stochastic Gradient Descent. <i>Lecture Notes in Computer Science</i> , 2019, , 93-100.	1.0	0
49	Distributed Maneuvering of Autonomous Surface Vehicles Based on Neurodynamic Optimization and Fuzzy Approximation. <i>IEEE Transactions on Control Systems Technology</i> , 2018, 26, 1083-1090.	3.2	291
50	Output tracking of stochastic nonlinear systems with unstable linearization. <i>International Journal of Robust and Nonlinear Control</i> , 2018, 28, 466-477.	2.1	32
51	Extended-State-Observer-Based Collision-Free Guidance Law for Target Tracking of Autonomous Surface Vehicles with Unknown Target Dynamics. <i>Complexity</i> , 2018, 2018, 1-10.	0.9	13
52	Strong iISS Target Tracking Controller Design for an Unmanned Surface Vehicle with Uncertain Follower Dynamics and Target Dynamics. , 2018, , .		0
53	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.	5.9	128
54	Cooperative control of multiple stochastic high-order nonlinear systems. <i>Automatica</i> , 2017, 82, 218-225.	3.0	62

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55	ESO-Based Line-of-Sight Guidance Law for Path Following of Underactuated Marine Surface Vehicles With Exact Sideslip Compensation. IEEE Journal of Oceanic Engineering, 2017, 42, 477-487.	2.1	233
56	Saturated coordinated control of multiple underactuated unmanned surface vehicles over a closed curve. Science China Information Sciences, 2017, 60, 1.	2.7	27
57	Coordinated path-following of underactuated unmanned surface vehicles with limited torques over a closed curve. , 2017, , .		0
58	Distributed guidance law for coordinated maneuvering of networked autonomous surface vehicles. , 2017, , .		0
59	Extended state observer design for autonomous surface vehicles using position-yaw measurements. , 2017, , .		1
60	Adaptive line-of-sight guidance law for synchronized path-following of under-actuated unmanned surface vehicles based on low-frequency learning. , 2017, , .		2
61	Coordinated path following of multiple underactuated marine surface vehicles along one curve. ISA Transactions, 2016, 64, 258-268.	3.1	54
62	Predictor-based LOS guidance law for path following of underactuated marine surface vehicles with sideslip compensation. Ocean Engineering, 2016, 124, 340-348.	1.9	125
63	Distributed containment tracking of multiple stochastic nonlinear systems. Automatica, 2016, 69, 214-221.	3.0	71
64	Neural adaptive steering of an unmanned surface vehicle with measurement noises. Neurocomputing, 2016, 186, 228-234.	3.5	36
65	Path following of marine surface vehicles with dynamical uncertainty and time-varying ocean disturbances. Neurocomputing, 2016, 173, 799-808.	3.5	86
66	Direct and composite iterative neural control for cooperative dynamic positioning of marine surface vessels. Nonlinear Dynamics, 2015, 81, 1315-1328.	2.7	27
67	Containment control of networked autonomous underwater vehicles: A predictor-based neural DSC design. ISA Transactions, 2015, 59, 160-171.	3.1	64