Rongxin Cui

List of Publications by Year
in descending order

57 papers	4,038 citations	257450 24 h-index	289244 40 g-index
57 all docs	57 docs citations	57 times ranked	2930 citing authors

#	Article	IF	Citations
1	Sideslip-Compensated Guidance-Based Adaptive Neural Control of Marine Surface Vessels. IEEE Transactions on Cybernetics, 2022, 52, 2860-2871.	9.5	20
2	Broad Learning With Reinforcement Learning Signal Feedback: Theory and Applications. IEEE Transactions on Neural Networks and Learning Systems, 2022, 33, 2952-2964.	11.3	16
3	Self-Triggered Adaptive NN Tracking Control for a Class of Continuous-Time Nonlinear Systems With Input Constraints. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2022, 52, 5805-5815.	9.3	2
4	Informative Path Planning for AUV-based Underwater Terrain Exploration with a POMDP. , 2021, , .		0
5	Adaptive Neural Network Control of Underactuated Surface Vessels With Guaranteed Transient Performance: Theory and Experimental Results. IEEE Transactions on Industrial Electronics, 2020, 67, 4024-4035.	7.9	129
6	Event-Triggered Reinforcement Learning-Based Adaptive Tracking Control for Completely Unknown Continuous-Time Nonlinear Systems. IEEE Transactions on Cybernetics, 2020, 50, 3231-3242.	9.5	35
7	Integral Reinforcement Learning-Based Adaptive NN Control for Continuous-Time Nonlinear MIMO Systems With Unknown Control Directions. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2020, 50, 4068-4077.	9.3	47
8	Reinforcement Learning-Based Nearly Optimal Control for Constrained-Input Partially Unknown Systems Using Differentiator. IEEE Transactions on Neural Networks and Learning Systems, 2020, 31, 4713-4725.	11.3	12
9	Virtual Simulation Platform for Training Semi-Autonomous Robotic Vehiclesâ€™ Operators. , 2020, , .		0
10	Modified Line-of-Sight Guidance Law With Adaptive Neural Network Control of Underactuated Marine Vehicles With State and Input Constraints. IEEE Transactions on Control Systems Technology, 2020, 28, 1902-1914.	5.2	58
11	Robot Learning System Based on Adaptive Neural Control and Dynamic Movement Primitives. IEEE Transactions on Neural Networks and Learning Systems, 2019, 30, 777-787.	11.3	237
12	Neural Networks Enhanced Adaptive Admittance Control of Optimized Robotâ€"Environment Interaction. IEEE Transactions on Cybernetics, 2019, 49, 2568-2579.	9.5	144
13	Long-term adaptive informative path planning for scalar field monitoring using cross-entropy optimization. Science China Information Sciences, 2019, 62, 1.	4.3	8
14	A DMPC-Based Approach to Circular Cooperative Path-following Control of Unmanned Underwater Vehicles. , 2019, , .		2
15	Cooperative multi-agent search using Bayesian approach with connectivity maintenance. Assembly Automation, 2019, 40, 76-84.	1.7	3
16	Admittance-Based Adaptive Cooperative Control for Multiple Manipulators With Output Constraints. IEEE Transactions on Neural Networks and Learning Systems, 2019, 30, 3621-3632.	11.3	52
17	Hand Tracking Accuracy Enhancement by Data Fusion Using Leap Motion and Myo Armband. , 2019, , .		7
18	Corrections to â€œExtended State Observer-Based Integral Sliding Mode Control for an Underwater Robot With Unknown Disturbances and Uncertain Nonlinearitiesâ€. IEEE Transactions on Industrial Electronics, 2019, 66, 8279-8280.	7.9	34

#	Article	IF	Citations
19	Neural network-based nonlinear sliding-mode control for an AUV without velocity measurements. International Journal of Control, 2019, 92, 677-692.	1.9	22
20	Neural Network Approximation Based Near-Optimal Motion Planning With Kinodynamic Constraints Using RRT. IEEE Transactions on Industrial Electronics, 2018, 65, 8718-8729.	7.9	95
21	A Sampling-Based Bayesian Approach for Cooperative Multiagent Online Search With Resource Constraints. IEEE Transactions on Cybernetics, 2018, 48, 1773-1785.	9.5	63
22	Neural Learning-Based Integrated Guidance and Control Algorithm of Multiple Underactuated AUVs. , 2018, , .		2
23	Smooth Path Planning for Robot Docking in Unknown Environment with Obstacles. Complexity, 2018, 2018, 1-17.	1.6	6
24	Intelligent Autonomous Transport Systems Design and Simulation. Journal of Advanced Transportation, 2018, 2018, 1-2.	1.7	3
25	Terminal sliding mode-based cooperative tracking control for non-linear dynamic systems. Transactions of the Institute of Measurement and Control, 2017, 39, 1081-1087.	1.7	19
26	Adaptive Neural Network Control of AUVs With Control Input Nonlinearities Using Reinforcement Learning. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2017, 47, 1019-1029.	9.3	395
27	Extended State Observer-Based Integral Sliding Mode Control for an Underwater Robot With Unknown Disturbances and Uncertain Nonlinearities. IEEE Transactions on Industrial Electronics, 2017, 64, 6785-6795.	7.9	427
28	Discrete-Time Dynamical Maximum Power Tracking Control for a Vertical Axis Water Turbine with Retractable Blades. Discrete Dynamics in Nature and Society, 2016, 2016, 1-11.	0.9	0
29	Actuator fault€tolerant control of ocean surface vessels with input saturation. International Journal of Robust and Nonlinear Control, 2016, 26, 542-564.	3.7	95
30	A coverage algorithm for multiple autonomous surface vehicles in flowing environments. International Journal of Control, Automation and Systems, 2016, 14, 540-548.	2.7	22
31	Adaptive sliding-mode attitude control for autonomous underwater vehicles with input nonlinearities. Ocean Engineering, 2016, 123, 45-54.	4.3	270
32	Optimal configuration of USVs for Moving Long Baseline positioning system. , 2016, , .		2
33	An improving method for micro-G simulation with magnetism€"buoyancy hybrid system. Advances in Space Research, 2016, 57, 2548-2558.	2.6	7
34	Mutual Information-Based Multi-AUV Path Planning for Scalar Field Sampling Using Multidimensional RRT*. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2016, 46, 993-1004.	9.3	227
35	Optimal Distance between Mobile Buoy and Target for Moving Long Baseline Positioning System. Journal of Navigation, 2015, 68, 809-826.	1.7	10
36	Moving long baseline positioning algorithm with uncertain sound speed. Journal of Mechanical Science and Technology, 2015, 29, 3995-4002.	1.5	9

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37	Adaptive backstepping control of wheeled inverted pendulums models. Nonlinear Dynamics, 2015, 79, 501-511.	5.2	96
38	Coverage control of multiple ocean vehicles for environment monitoring with energy constraints. , 2014, , .		2
39	Neural Network-Based Motion Control of an Underactuated Wheeled Inverted Pendulum Model. IEEE Transactions on Neural Networks and Learning Systems, 2014, 25, 2004-2016.	11.3	256
40	Neural network based reinforcement learning control of autonomous underwater vehicles with control input saturation. , 2014, , .		10
41	Adaptive Control of Robot System of up to a Half Passive Joints. Lecture Notes in Computer Science, 2014, , 264-275.	1.3	1
42	Periodic Event-Triggered Distributed Receding Horizon Control of Dynamically Decoupled Linear Systems. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2014, 47, 10066-10071.	0.4	11
43	Terminal sliding mode tracking control for a class of SISO uncertain nonlinear systems. ISA Transactions, 2013, 52, 198-206.	5.7	241
44	Game theory-based negotiation for multiple robots task allocation. Robotica, 2013, 31, 923-934.	1.9	50
45	Cooperative Tracking of Multiple Agents with Uncertain Nonlinear Dynamics and Fixed Time Delays. Lecture Notes in Computer Science, 2013, , 120-129.	1.3	0
46	Mutual Synchronization of Multiple Robot Manipulators with Unknown Dynamics. Journal of Intelligent and Robotic Systems: Theory and Applications, 2012, 68, 105-119.	3.4	64
47	Synchronization of multiple autonomous underwater vehicles without velocity measurements. Science China Information Sciences, 2012, 55, 1693-1703.	4.3	48
48	Pareto-optimal coordination of multiple robots with safety guarantees. Autonomous Robots, 2012, 32, 189-205.	4.8	53
49	Synchronised tracking control of multi-agent system with high-order dynamics. IET Control Theory and Applications, 2012, 6, 603.	2.1	126
50	Estimating the minimum number of robots to finish given multi-objects task. , 2011, , .		1
51	Leaderâ€"follower formation control of underactuated autonomous underwater vehicles. Ocean Engineering, 2010, 37, 1491-1502.	4.3	553
52	Synchronized tracking control of multi-agent system with limited information. , 2010, , .		4
53	Synchronized altitude tracking control of multiple unmanned helicopters. , 2010, , .		1
54	Adaptive NN tracking control of overactuated ocean surface vessels. , 2010, , .		8

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55	Leader-follower formation control of underactuated AUVs with leader position measurement. , 2009, , .		14
56	Backstepping-based path following control of an underactuated autonomous underwater vehicle. , 2009, , .		15
57	Formation control of underactuated autonomous underwater vehicles in horizontal plane. , 2008, , .		4