

Rongxin Cui

List of Publications by Citations

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

51
papers

2,676
citations

20
h-index

51
g-index

57
ext. papers

3,422
ext. citations

4.8
avg. IF

5.84
L-index

#	Paper	IF	Citations
51	Leader-follower formation control of underactuated autonomous underwater vehicles. <i>Ocean Engineering</i> , 2010 , 37, 1491-1502	3.9	381
50	Extended State Observer-Based Integral Sliding Mode Control for an Underwater Robot With Unknown Disturbances and Uncertain Nonlinearities. <i>IEEE Transactions on Industrial Electronics</i> , 2017 , 64, 6785-6795	8.9	298
49	Adaptive Neural Network Control of AUVs With Control Input Nonlinearities Using Reinforcement Learning. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , 2017 , 47, 1019-1029	7.3	249
48	Neural network-based motion control of an underactuated wheeled inverted pendulum model. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 2014 , 25, 2004-16	10.3	197
47	Adaptive sliding-mode attitude control for autonomous underwater vehicles with input nonlinearities. <i>Ocean Engineering</i> , 2016 , 123, 45-54	3.9	181
46	Terminal sliding mode tracking control for a class of SISO uncertain nonlinear systems. <i>ISA Transactions</i> , 2013 , 52, 198-206	5.5	180
45	Mutual Information-Based Multi-AUV Path Planning for Scalar Field Sampling Using Multidimensional RRT*. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , 2016 , 46, 993-1004	7.3	161
44	Robot Learning System Based on Adaptive Neural Control and Dynamic Movement Primitives. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 2019 , 30, 777-787	10.3	140
43	Synchronised tracking control of multi-agent system with high-order dynamics. <i>IET Control Theory and Applications</i> , 2012 , 6, 603	2.5	114
42	Neural Networks Enhanced Adaptive Admittance Control of Optimized Robot-Environment Interaction. <i>IEEE Transactions on Cybernetics</i> , 2019 , 49, 2568-2579	10.2	93
41	Adaptive backstepping control of wheeled inverted pendulums models. <i>Nonlinear Dynamics</i> , 2015 , 79, 501-511	5	81
40	Actuator fault-tolerant control of ocean surface vessels with input saturation. <i>International Journal of Robust and Nonlinear Control</i> , 2016 , 26, 542-564	3.6	65
39	Adaptive Neural Network Control of Underactuated Surface Vessels With Guaranteed Transient Performance: Theory and Experimental Results. <i>IEEE Transactions on Industrial Electronics</i> , 2020 , 67, 4024-4035	8.9	63
38	Neural Network Approximation Based Near-Optimal Motion Planning With Kinodynamic Constraints Using RRT. <i>IEEE Transactions on Industrial Electronics</i> , 2018 , 65, 8718-8729	8.9	57
37	Mutual Synchronization of Multiple Robot Manipulators with Unknown Dynamics. <i>Journal of Intelligent and Robotic Systems: Theory and Applications</i> , 2012 , 68, 105-119	2.9	51
36	Pareto-optimal coordination of multiple robots with safety guarantees. <i>Autonomous Robots</i> , 2012 , 32, 189-205	3	47
35	Game theory-based negotiation for multiple robots task allocation. <i>Robotica</i> , 2013 , 31, 923-934	2.1	39

34	A Sampling-Based Bayesian Approach for Cooperative Multiagent Online Search With Resource Constraints. <i>IEEE Transactions on Cybernetics</i> , 2018 , 48, 1773-1785	10.2	38
33	Synchronization of multiple autonomous underwater vehicles without velocity measurements. <i>Science China Information Sciences</i> , 2012 , 55, 1693-1703	3-4	33
32	Admittance-Based Adaptive Cooperative Control for Multiple Manipulators With Output Constraints. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 2019 , 30, 3621-3632	10.3	24
31	Event-Triggered Reinforcement Learning-Based Adaptive Tracking Control for Completely Unknown Continuous-Time Nonlinear Systems. <i>IEEE Transactions on Cybernetics</i> , 2020 , 50, 3231-3242	10.2	20
30	Modified Line-of-Sight Guidance Law With Adaptive Neural Network Control of Underactuated Marine Vehicles With State and Input Constraints. <i>IEEE Transactions on Control Systems Technology</i> , 2020 , 28, 1902-1914	4.8	19
29	Integral Reinforcement Learning-Based Adaptive NN Control for Continuous-Time Nonlinear MIMO Systems With Unknown Control Directions. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , 2020 , 50, 4068-4077	7.3	17
28	A coverage algorithm for multiple autonomous surface vehicles in flowing environments. <i>International Journal of Control, Automation and Systems</i> , 2016 , 14, 540-548	2.9	15
27	Terminal sliding mode-based cooperative tracking control for non-linear dynamic systems. <i>Transactions of the Institute of Measurement and Control</i> , 2017 , 39, 1081-1087	1.8	14
26	Neural network-based nonlinear sliding-mode control for an AUV without velocity measurements. <i>International Journal of Control</i> , 2019 , 92, 677-692	1.5	11
25	Optimal Distance between Mobile Buoy and Target for Moving Long Baseline Positioning System. <i>Journal of Navigation</i> , 2015 , 68, 809-826	2.3	8
24	Adaptive NN tracking control of overactuated ocean surface vessels 2010 ,		8
23	Backstepping-based path following control of an underactuated autonomous underwater vehicle 2009 ,		8
22	Neural network based reinforcement learning control of autonomous underwater vehicles with control input saturation 2014 ,		7
21	Moving long baseline positioning algorithm with uncertain sound speed. <i>Journal of Mechanical Science and Technology</i> , 2015 , 29, 3995-4002	1.6	7
20	Corrections to Extended State Observer-Based Integral Sliding Mode Control for an Underwater Robot With Unknown Disturbances and Uncertain Nonlinearities. <i>IEEE Transactions on Industrial Electronics</i> , 2019 , 66, 8279-8280	8.9	7
19	An improving method for micro-G simulation with magnetism-Buoyancy hybrid system. <i>Advances in Space Research</i> , 2016 , 57, 2548-2558	2.4	6
18	Periodic Event-Triggered Distributed Receding Horizon Control of Dynamically Decoupled Linear Systems. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2014 , 47, 10066-10071		6
17	Hand Tracking Accuracy Enhancement by Data Fusion Using Leap Motion and Myo Armband 2019 ,		5

16	Smooth Path Planning for Robot Docking in Unknown Environment with Obstacles. <i>Complexity</i> , 2018 , 2018, 1-17	1.6	4
15	Formation control of underactuated autonomous underwater vehicles in horizontal plane 2008 ,		3
14	Reinforcement Learning-Based Nearly Optimal Control for Constrained-Input Partially Unknown Systems Using Differentiator. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 2020 , 31, 4713-4725 ³	10.2	3
13	Cooperative multi-agent search using Bayesian approach with connectivity maintenance. <i>Assembly Automation</i> , 2019 , 40, 76-84	2.1	2
12	Sideslip-Compensated Guidance-Based Adaptive Neural Control of Marine Surface Vessels. <i>IEEE Transactions on Cybernetics</i> , 2020 , PP,	10.2	2
11	Long-term adaptive informative path planning for scalar field monitoring using cross-entropy optimization. <i>Science China Information Sciences</i> , 2019 , 62, 1	3.4	2
10	Synchronized tracking control of multi-agent system with limited information 2010 ,		2
9	Intelligent Autonomous Transport Systems Design and Simulation. <i>Journal of Advanced Transportation</i> , 2018 , 2018, 1-2	1.9	2
8	A DMPC-Based Approach to Circular Cooperative Path-following Control of Unmanned Underwater Vehicles 2019 ,		1
7	Optimal configuration of USVs for Moving Long Baseline positioning system 2016 ,		1
6	Adaptive Control of Robot System of up to a Half Passive Joints. <i>Lecture Notes in Computer Science</i> , 2014 , 264-275	0.9	1
5	Leader-follower formation control of underactuated AUVs with leader position measurement 2009 ,		1
4	Estimating the minimum number of robots to finish given multi-objects task 2011 ,		1
3	Self-Triggered Adaptive NN Tracking Control for a Class of Continuous-Time Nonlinear Systems With Input Constraints. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , 2021 , 1-11	7.3	
2	Cooperative Tracking of Multiple Agents with Uncertain Nonlinear Dynamics and Fixed Time Delays. <i>Lecture Notes in Computer Science</i> , 2013 , 120-129	0.9	
1	Discrete-Time Dynamical Maximum Power Tracking Control for a Vertical Axis Water Turbine with Retractable Blades. <i>Discrete Dynamics in Nature and Society</i> , 2016 , 2016, 1-11	1.1	