Rongxin Cui

List of Publications by Year in Descending Order

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	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*, **2021**, 1-11	7.3	
50	Sideslip-Compensated Guidance-Based Adaptive Neural Control of Marine Surface Vessels. *IEEE Transactions on Cybernetics*, **2020**, PP,	10.2	2
49	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	4.8	19
48	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	10.2	3
47	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	8.9	63
46	Event-Triggered Reinforcement Learning-Based Adaptive Tracking Control for Completely Unknown Continuous-Time Nonlinear Systems. *IEEE Transactions on Cybernetics*, **2020**, 50, 3231-3242	10.2	20
45	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	7.3	17
44	A DMPC-Based Approach to Circular Cooperative Path-following Control of Unmanned Underwater Vehicles **2019**,		1
43	Cooperative multi-agent search using Bayesian approach with connectivity maintenance. *Assembly Automation*, **2019**, 40, 76-84	2.1	2
42	Admittance-Based Adaptive Cooperative Control for Multiple Manipulators With Output Constraints. *IEEE Transactions on Neural Networks and Learning Systems*, **2019**, 30, 3621-3632	10.3	24
41	Robot Learning System Based on Adaptive Neural Control and Dynamic Movement Primitives. *IEEE Transactions on Neural Networks and Learning Systems*, **2019**, 30, 777-787	10.3	140
40	Neural Networks Enhanced Adaptive Admittance Control of Optimized Robot-Environment Interaction. *IEEE Transactions on Cybernetics*, **2019**, 49, 2568-2579	10.2	93
39	Long-term adaptive informative path planning for scalar field monitoring using cross-entropy optimization. *Science China Information Sciences*, **2019**, 62, 1	3.4	2
38	Hand Tracking Accuracy Enhancement by Data Fusion Using Leap Motion and Myo Armband **2019**,		5
37	Corrections to Extended State Observer-Based Integral Sliding Mode Control for an Underwater Robot With Unknown Disturbances and Uncertain Nonlinearities *IEEE Transactions on Industrial Electronics*, **2019**, 66, 8279-8280	8.9	7
36	Neural network-based nonlinear sliding-mode control for an AUV without velocity measurements. *International Journal of Control*, **2019**, 92, 677-692	1.5	11
35	Neural Network Approximation Based Near-Optimal Motion Planning With Kinodynamic Constraints Using RRT. *IEEE Transactions on Industrial Electronics*, **2018**, 65, 8718-8729	8.9	57

34	A Sampling-Based Bayesian Approach for Cooperative Multiagent Online Search With Resource Constraints. *IEEE Transactions on Cybernetics*, **2018**, 48, 1773-1785	10.2	38
33	Smooth Path Planning for Robot Docking in Unknown Environment with Obstacles. *Complexity*, **2018**, 2018, 1-17	1.6	4
32	Intelligent Autonomous Transport Systems Design and Simulation. *Journal of Advanced Transportation*, **2018**, 2018, 1-2	1.9	2
31	Terminal sliding mode-based cooperative tracking control for non-linear dynamic systems. *Transactions of the Institute of Measurement and Control*, **2017**, 39, 1081-1087	1.8	14
30	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	7.3	249
29	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	8.9	298
28	Adaptive sliding-mode attitude control for autonomous underwater vehicles with input nonlinearities. *Ocean Engineering*, **2016**, 123, 45-54	3.9	181
27	Optimal configuration of USVs for Moving Long Baseline positioning system **2016**,		1
26	An improving method for micro-G simulation with magnetismBuoyancy hybrid system. *Advances in Space Research*, **2016**, 57, 2548-2558	2.4	6
25	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	7.3	161
24	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	1.1	
23	Actuator fault-tolerant control of ocean surface vessels with input saturation. *International Journal of Robust and Nonlinear Control*, **2016**, 26, 542-564	3.6	65
22	A coverage algorithm for multiple autonomous surface vehicles in flowing environments. *International Journal of Control, Automation and Systems*, **2016**, 14, 540-548	2.9	15
21	Adaptive backstepping control of wheeled inverted pendulums models. *Nonlinear Dynamics*, **2015**, 79, 501-511	5	81
20	Optimal Distance between Mobile Buoy and Target for Moving Long Baseline Positioning System. *Journal of Navigation*, **2015**, 68, 809-826	2.3	8
19	Moving long baseline positioning algorithm with uncertain sound speed. *Journal of Mechanical Science and Technology*, **2015**, 29, 3995-4002	1.6	7
18	Neural network-based motion control of an underactuated wheeled inverted pendulum model. *IEEE Transactions on Neural Networks and Learning Systems*, **2014**, 25, 2004-16	10.3	197
17	Neural network based reinforcement learning control of autonomous underwater vehicles with control input saturation **2014**,		7

16	Adaptive Control of Robot System of up to a Half Passive Joints. *Lecture Notes in Computer Science*, **2014**, 264-275	0.9	1
15	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		6
14	Terminal sliding mode tracking control for a class of SISO uncertain nonlinear systems. *ISA Transactions*, **2013**, 52, 198-206	5.5	180
13	Game theory-based negotiation for multiple robots task allocation. *Robotica*, **2013**, 31, 923-934	2.1	39
12	Cooperative Tracking of Multiple Agents with Uncertain Nonlinear Dynamics and Fixed Time Delays. *Lecture Notes in Computer Science*, **2013**, 120-129	0.9	
11	Synchronised tracking control of multi-agent system with high-order dynamics. *IET Control Theory and Applications*, **2012**, 6, 603	2.5	114
10	Mutual Synchronization of Multiple Robot Manipulators with Unknown Dynamics. *Journal of Intelligent and Robotic Systems: Theory and Applications*, **2012**, 68, 105-119	2.9	51
9	Synchronization of multiple autonomous underwater vehicles without velocity measurements. *Science China Information Sciences*, **2012**, 55, 1693-1703	3.4	33
8	Pareto-optimal coordination of multiple robots with safety guarantees. *Autonomous Robots*, **2012**, 32, 189-205	3	47
7	Estimating the minimum number of robots to finish given multi-objects task **2011**,		1
6	Synchronized tracking control of multi-agent system with limited information **2010**,		2
5	Adaptive NN tracking control of overactuated ocean surface vessels **2010**,		8
4	Leader-follower formation control of underactuated autonomous underwater vehicles. *Ocean Engineering*, **2010**, 37, 1491-1502	3.9	381
3	Leader-follower formation control of underactuated AUVs with leader position measurement **2009**,		1
2	Backstepping-based path following control of an underactuated autonomous underwater vehicle **2009**,		8
1	Formation control of underactuated autonomous underwater vehicles in horizontal plane **2008**,		3