

Rongxin Cui

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/6226798/publications.pdf>

Version: 2024-02-01

57
papers

4,038
citations

257101

24
h-index

288905

40
g-index

57
all docs

57
docs citations

57
times ranked

2930
citing authors

#	ARTICLE	IF	CITATIONS
1	Leader-follower formation control of underactuated autonomous underwater vehicles. <i>Ocean Engineering</i> , 2010, 37, 1491-1502.	1.9	553
2	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.	5.2	427
3	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.	5.9	395
4	Adaptive sliding-mode attitude control for autonomous underwater vehicles with input nonlinearities. <i>Ocean Engineering</i> , 2016, 123, 45-54.	1.9	270
5	Neural Network-Based Motion Control of an Underactuated Wheeled Inverted Pendulum Model. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 2014, 25, 2004-2016.	7.2	256
6	Terminal sliding mode tracking control for a class of SISO uncertain nonlinear systems. <i>ISA Transactions</i> , 2013, 52, 198-206.	3.1	241
7	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.	7.2	237
8	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.	5.9	227
9	Neural Networks Enhanced Adaptive Admittance Control of Optimized Robot-Environment Interaction. <i>IEEE Transactions on Cybernetics</i> , 2019, 49, 2568-2579.	6.2	144
10	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.	5.2	129
11	Synchronised tracking control of multi-agent system with high-order dynamics. <i>IET Control Theory and Applications</i> , 2012, 6, 603.	1.2	126
12	Adaptive backstepping control of wheeled inverted pendulums models. <i>Nonlinear Dynamics</i> , 2015, 79, 501-511.	2.7	96
13	Actuator fault-tolerant control of ocean surface vessels with input saturation. <i>International Journal of Robust and Nonlinear Control</i> , 2016, 26, 542-564.	2.1	95
14	Neural Network Approximation Based Near-Optimal Motion Planning With Kinodynamic Constraints Using RRT. <i>IEEE Transactions on Industrial Electronics</i> , 2018, 65, 8718-8729.	5.2	95
15	Mutual Synchronization of Multiple Robot Manipulators with Unknown Dynamics. <i>Journal of Intelligent and Robotic Systems: Theory and Applications</i> , 2012, 68, 105-119.	2.0	64
16	A Sampling-Based Bayesian Approach for Cooperative Multiagent Online Search With Resource Constraints. <i>IEEE Transactions on Cybernetics</i> , 2018, 48, 1773-1785.	6.2	63
17	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.	3.2	58
18	Pareto-optimal coordination of multiple robots with safety guarantees. <i>Autonomous Robots</i> , 2012, 32, 189-205.	3.2	53

#	ARTICLE	IF	CITATIONS
19	Admittance-Based Adaptive Cooperative Control for Multiple Manipulators With Output Constraints. IEEE Transactions on Neural Networks and Learning Systems, 2019, 30, 3621-3632.	7.2	52
20	Game theory-based negotiation for multiple robots task allocation. Robotica, 2013, 31, 923-934.	1.3	50
21	Synchronization of multiple autonomous underwater vehicles without velocity measurements. Science China Information Sciences, 2012, 55, 1693-1703.	2.7	48
22	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.	5.9	47
23	Event-Triggered Reinforcement Learning-Based Adaptive Tracking Control for Completely Unknown Continuous-Time Nonlinear Systems. IEEE Transactions on Cybernetics, 2020, 50, 3231-3242.	6.2	35
24	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.	5.2	34
25	A coverage algorithm for multiple autonomous surface vehicles in flowing environments. International Journal of Control, Automation and Systems, 2016, 14, 540-548.	1.6	22
26	Neural network-based nonlinear sliding-mode control for an AUV without velocity measurements. International Journal of Control, 2019, 92, 677-692.	1.2	22
27	Sideslip-Compensated Guidance-Based Adaptive Neural Control of Marine Surface Vessels. IEEE Transactions on Cybernetics, 2022, 52, 2860-2871.	6.2	20
28	Terminal sliding mode-based cooperative tracking control for non-linear dynamic systems. Transactions of the Institute of Measurement and Control, 2017, 39, 1081-1087.	1.1	19
29	Broad Learning With Reinforcement Learning Signal Feedback: Theory and Applications. IEEE Transactions on Neural Networks and Learning Systems, 2022, 33, 2952-2964.	7.2	16
30	Backstepping-based path following control of an underactuated autonomous underwater vehicle. , 2009, , .		15
31	Leader-follower formation control of underactuated AUVs with leader position measurement. , 2009, , .		14
32	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.	7.2	12
33	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
34	Neural network based reinforcement learning control of autonomous underwater vehicles with control input saturation. , 2014, , .		10
35	Optimal Distance between Mobile Buoy and Target for Moving Long Baseline Positioning System. Journal of Navigation, 2015, 68, 809-826.	1.0	10
36	Moving long baseline positioning algorithm with uncertain sound speed. Journal of Mechanical Science and Technology, 2015, 29, 3995-4002.	0.7	9

#	ARTICLE	IF	CITATIONS
37	Adaptive NN tracking control of overactuated ocean surface vessels. , 2010, , .		8
38	Long-term adaptive informative path planning for scalar field monitoring using cross-entropy optimization. Science China Information Sciences, 2019, 62, 1.	2.7	8
39	An improving method for micro-G simulation with magnetismâ€“buoyancy hybrid system. Advances in Space Research, 2016, 57, 2548-2558.	1.2	7
40	Hand Tracking Accuracy Enhancement by Data Fusion Using Leap Motion and Myo Armband. , 2019, , .		7
41	Smooth Path Planning for Robot Docking in Unknown Environment with Obstacles. Complexity, 2018, 2018, 1-17.	0.9	6
42	Formation control of underactuated autonomous underwater vehicles in horizontal plane. , 2008, , .		4
43	Synchronized tracking control of multi-agent system with limited information. , 2010, , .		4
44	Intelligent Autonomous Transport Systems Design and Simulation. Journal of Advanced Transportation, 2018, 2018, 1-2.	0.9	3
45	Cooperative multi-agent search using Bayesian approach with connectivity maintenance. Assembly Automation, 2019, 40, 76-84.	1.0	3
46	Coverage control of multiple ocean vehicles for environment monitoring with energy constraints. , 2014, , .		2
47	Optimal configuration of USVs for Moving Long Baseline positioning system. , 2016, , .		2
48	Neural Learning-Based Integrated Guidance and Control Algorithm of Multiple Underactuated AUVs. , 2018, , .		2
49	A DMPC-Based Approach to Circular Cooperative Path-following Control of Unmanned Underwater Vehicles. , 2019, , .		2
50	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.	5.9	2
51	Synchronized altitude tracking control of multiple unmanned helicopters. , 2010, , .		1
52	Estimating the minimum number of robots to finish given multi-objects task. , 2011, , .		1
53	Adaptive Control of Robot System of up to a Half Passive Joints. Lecture Notes in Computer Science, 2014, , 264-275.	1.0	1
54	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.	0.5	0

#	ARTICLE	IF	CITATIONS
55	Virtual Simulation Platform for Training Semi-Autonomous Robotic Vehiclesâ€™ Operators. , 2020, , .		0
56	Cooperative Tracking of Multiple Agents with Uncertain Nonlinear Dynamics and Fixed Time Delays. Lecture Notes in Computer Science, 2013, , 120-129.	1.0	0
57	Informative Path Planning for AUV-based Underwater Terrain Exploration with a POMDP. , 2021, , .		0