

Rongxin Cui

List of Publications by Year in descending order

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Version: 2024-02-01

57
papers

4,038
citations

257450

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h-index

289244

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. | 4.3 | 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. | 7.9 | 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. | 9.3 | 395 |
| 4 | Adaptive sliding-mode attitude control for autonomous underwater vehicles with input nonlinearities. <i>Ocean Engineering</i> , 2016, 123, 45-54. | 4.3 | 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. | 11.3 | 256 |
| 6 | Terminal sliding mode tracking control for a class of SISO uncertain nonlinear systems. <i>ISA Transactions</i> , 2013, 52, 198-206. | 5.7 | 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. | 11.3 | 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. | 9.3 | 227 |
| 9 | Neural Networks Enhanced Adaptive Admittance Control of Optimized Robot-Environment Interaction. <i>IEEE Transactions on Cybernetics</i> , 2019, 49, 2568-2579. | 9.5 | 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. | 7.9 | 129 |
| 11 | Synchronised tracking control of multi-agent system with high-order dynamics. <i>IET Control Theory and Applications</i> , 2012, 6, 603. | 2.1 | 126 |
| 12 | Adaptive backstepping control of wheeled inverted pendulums models. <i>Nonlinear Dynamics</i> , 2015, 79, 501-511. | 5.2 | 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. | 3.7 | 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. | 7.9 | 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. | 3.4 | 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. | 9.5 | 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. | 5.2 | 58 |
| 18 | Pareto-optimal coordination of multiple robots with safety guarantees. <i>Autonomous Robots</i> , 2012, 32, 189-205. | 4.8 | 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. | 11.3 | 52 |
| 20 | Game theory-based negotiation for multiple robots task allocation. Robotica, 2013, 31, 923-934. | 1.9 | 50 |
| 21 | Synchronization of multiple autonomous underwater vehicles without velocity measurements. Science China Information Sciences, 2012, 55, 1693-1703. | 4.3 | 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. | 9.3 | 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. | 9.5 | 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. | 7.9 | 34 |
| 25 | 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 |
| 26 | Neural network-based nonlinear sliding-mode control for an AUV without velocity measurements. International Journal of Control, 2019, 92, 677-692. | 1.9 | 22 |
| 27 | Sideslip-Compensated Guidance-Based Adaptive Neural Control of Marine Surface Vessels. IEEE Transactions on Cybernetics, 2022, 52, 2860-2871. | 9.5 | 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. | 1.7 | 19 |
| 29 | 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 |
| 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. | 11.3 | 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. | 1.7 | 10 |
| 36 | Moving long baseline positioning algorithm with uncertain sound speed. Journal of Mechanical Science and Technology, 2015, 29, 3995-4002. | 1.5 | 9 |

| # | 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. | 4.3 | 8 |
| 39 | An improving method for micro-G simulation with magnetismâ€“buoyancy hybrid system. Advances in Space Research, 2016, 57, 2548-2558. | 2.6 | 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. | 1.6 | 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. | 1.7 | 3 |
| 45 | Cooperative multi-agent search using Bayesian approach with connectivity maintenance. Assembly Automation, 2019, 40, 76-84. | 1.7 | 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. | 9.3 | 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. | 1.3 | 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. | 0.9 | 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. | 1.3 | 0 |
| 57 | Informative Path Planning for AUV-based Underwater Terrain Exploration with a POMDP. , 2021, , . | | 0 |