Zhihao Xu

List of Publications by Year
in descending order

27 papers	285 citations	1307366 7 h-index	1058333 14 g-index
29 all docs	29 docs citations	29 times ranked	164 citing authors

#	Article	IF	Citations
1	Motion Planning of Manipulators for Simultaneous Obstacle Avoidance and Target Tracking: An RNN Approach With Guaranteed Performance. IEEE Transactions on Industrial Electronics, 2022, 69, 3887-3897.	5.2	30
2	Simultaneous Obstacle Avoidance and Target Tracking of Multiple Wheeled Mobile Robots With Certified Safety. IEEE Transactions on Cybernetics, 2022, 52, 11859-11873.	6.2	14
3	A Framework of Robot Skill Learning From Complex and Long-Horizon Tasks. IEEE Transactions on Automation Science and Engineering, 2022, 19, 3628-3638.	3.4	5
4	Dynamic neural networks based adaptive optimal impedance control for redundant manipulators under physical constraints. Neurocomputing, 2022, 471, 149-160.	3.5	6
5	Dynamic Neural Networks for Motion-Force Control of Redundant Manipulators: An Optimization Perspective. IEEE Transactions on Industrial Electronics, 2021, 68, 1525-1536.	5.2	64
6	A Vary-Parameter Convergence-Accelerated Recurrent Neural Network for Online Solving Dynamic Matrix Pseudoinverse and its Robot Application. Neural Processing Letters, 2021, 53, 1287-1304.	2.0	6
7	Dual-Motor Synchronization Control Design Based on Adaptive Neural Networks Considering Full-State Constraints and Partial Asymmetric Dead-Zone. Sensors, 2021, 21, 4261.	2.1	2
8	Review of wheeled mobile robot collision avoidance under unknown environment. Science Progress, 2021, 104, 003685042110377.	1.0	8
9	Collaboration of multiple SCARA robots with guaranteed safety using recurrent neural networks. Neurocomputing, 2021, 456, 1-10.	3.5	10
10	Robust Formation Tracking of Multiple Wheeled Mobile Robots Under External Disturbance. Lecture Notes in Computer Science, 2021, , 659-668.	1.0	0
11	Nonparametric Bayesian Learning for Collaborative Robot Multimodal Introspection. , 2020, , .		2
12	AI based Robot Safe Learning and Control. , 2020, , .		3
13	Recurrent Neural Networks-Based Collision-Free Motion Planning for Dual Manipulators Under Multiple Constraints. IEEE Access, 2020, 8, 54225-54236.	2.6	6
14	Nonparametric Bayesian Method for Robot Anomaly Monitoring. , 2020, , 51-93.		2
15	RNN Based Trajectory Control for Manipulators with Uncertain Kinematic Parameters. , 2020, , 17-38.		0
16	RNN for Motion-Force Control of Redundant Manipulators with Optimal Joint Torque. , 2020, , 105-127.		0
17	Incremental Learning Robot Task Representation and Identification. , 2020, , 29-49.		3
18	Nonparametric Bayesian Method for Robot Anomaly Diagnose. , 2020, , 95-118.		0

#	Article	IF	Citations
19	Learning Policy for Robot Anomaly Recovery Based on Robot Introspection. , 2020, , 119-137.		0
20	Optimization-Based Compliant Control for Manipulators Under Dynamic Obstacle Constraints. , 2020, , 83-104.		0
21	Adaptive Jacobian Based Trajectory Tracking for Redundant Manipulators with Model Uncertainties in Repetitive Tasks. , 2020, , 1-15.		0
22	RNN Based Adaptive Compliance Control for Robots with Model Uncertainties. , 2020, , 39-61.		0
23	Deep RNN Based Obstacle Avoidance Control for Redundant Manipulators. , 2020, , 63-81.		0
24	Collision-Free Compliance Control for Redundant Manipulators: An Optimization Case. Frontiers in Neurorobotics, 2019, 13, 50.	1.6	6
25	Deep Recurrent Neural Networks Based Obstacle Avoidance Control for Redundant Manipulators. Frontiers in Neurorobotics, 2019, 13, 47.	1.6	22
26	Dynamic neural networks based adaptive admittance control for redundant manipulators with model uncertainties. Neurocomputing, 2019, 357, 271-281.	3.5	36
27	Dynamic neural networks based kinematic control for redundant manipulators with model uncertainties. Neurocomputing, 2019, 329, 255-266.	3.5	59