

Tairen Sun

List of Publications by Year in descending order

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Version: 2024-02-01

51
papers

1,266
citations

394286

19
h-index

360920

35
g-index

52
all docs

52
docs citations

52
times ranked

1075
citing authors

#	ARTICLE	IF	CITATIONS
1	Neural network-based sliding mode adaptive control for robot manipulators. <i>Neurocomputing</i> , 2011, 74, 2377-2384.	3.5	215
2	Composite adaptive fuzzy H^∞ tracking control of uncertain nonlinear systems. <i>Neurocomputing</i> , 2013, 99, 15-24.	3.5	135
3	Composite learning from adaptive backstepping neural network control. <i>Neural Networks</i> , 2017, 95, 134-142.	3.3	97
4	Composite adaptive dynamic surface control using online recorded data. <i>International Journal of Robust and Nonlinear Control</i> , 2016, 26, 3921-3936.	2.1	71
5	Robust model predictive control for path-following of underactuated surface vessels with roll constraints. <i>Ocean Engineering</i> , 2017, 143, 125-132.	1.9	70
6	Robust adaptive neural network control for environmental boundary tracking by mobile robots. <i>International Journal of Robust and Nonlinear Control</i> , 2013, 23, 123-136.	2.1	64
7	Composite Learning Enhanced Robot Impedance Control. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 2020, 31, 1052-1059.	7.2	52
8	Semiglobal exponential control of Euler-Lagrange systems using a sliding-mode disturbance observer. <i>Automatica</i> , 2020, 112, 108677.	3.0	47
9	Composite adaptive fuzzy control for synchronizing generalized Lorenz systems. <i>Chaos</i> , 2012, 22, 023144.	1.0	41
10	Robust model predictive control for constrained continuous-time nonlinear systems. <i>International Journal of Control</i> , 2018, 91, 359-368.	1.2	38
11	Robust Tracking Control of Helicopters Using Backstepping with Disturbance Observers. <i>Asian Journal of Control</i> , 2014, 16, 1387-1402.	1.9	36
12	Adaptive fuzzy PD control with stable H^∞ tracking guarantee. <i>Neurocomputing</i> , 2017, 237, 71-78.	3.5	34
13	Robust adaptive control for prescribed performance tracking of constrained uncertain nonlinear systems. <i>Journal of the Franklin Institute</i> , 2019, 356, 18-30.	1.9	30
14	Stability-Guaranteed Variable Impedance Control of Robots Based on Approximate Dynamic Inversion. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , 2021, 51, 4193-4200.	5.9	30
15	Active Disturbance Rejection Control of Surface Vessels Using Composite Error Updated Extended State Observer. <i>Asian Journal of Control</i> , 2017, 19, 1802-1811.	1.9	29
16	On parameter convergence in least squares identification and adaptive control. <i>International Journal of Robust and Nonlinear Control</i> , 2019, 29, 2898-2911.	2.1	28
17	Peaking-Free Output-Feedback Adaptive Neural Control Under a Nonseparation Principle. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 2015, 26, 3097-3108.	7.2	27
18	Global Asymptotic Stabilization Using Adaptive Fuzzy PD Control. <i>IEEE Transactions on Cybernetics</i> , 2015, 45, 574-582.	6.2	24

#	ARTICLE	IF	CITATIONS
19	Robust wavelet network control for a class of autonomous vehicles to track environmental contour line. <i>Neurocomputing</i> , 2011, 74, 2886-2892.	3.5	20
20	Adaptive Control for Nonaffine Nonlinear Systems Using Reliable Neural Network Approximation. <i>IEEE Access</i> , 2017, 5, 23657-23662.	2.6	16
21	Novel sliding-mode disturbance observer-based tracking control with applications to robot manipulators. <i>Science China Information Sciences</i> , 2021, 64, 1.	2.7	16
22	Adaptive Neural Network Control of Serial Variable Stiffness Actuators. <i>Complexity</i> , 2017, 2017, 1-9.	0.9	15
23	Composite adaptive locally weighted learning control for multi-constraint nonlinear systems. <i>Applied Soft Computing Journal</i> , 2017, 61, 1098-1104.	4.1	13
24	Robust model predictive control of the automatic operation boats for aquaculture. <i>Computers and Electronics in Agriculture</i> , 2017, 142, 118-125.	3.7	13
25	Learning impedance control of robots with enhanced transient and steady-state control performances. <i>Science China Information Sciences</i> , 2020, 63, 1.	2.7	13
26	Neural approximation-based adaptive variable impedance control of robots. <i>Transactions of the Institute of Measurement and Control</i> , 2020, 42, 2589-2598.	1.1	12
27	Neural Network Observer-Based Finite-Time Formation Control of Mobile Robots. <i>Mathematical Problems in Engineering</i> , 2014, 2014, 1-9.	0.6	10
28	Disturbance observer-based sliding manifold predictive control for reentry hypersonic vehicles with multi-constraint. <i>Proceedings of the Institution of Mechanical Engineers, Part G: Journal of Aerospace Engineering</i> , 2016, 230, 485-495.	0.7	9
29	Robust Control of a Serial Variable Stiffness Actuator Based on Nonlinear Disturbance Observer (NDOB). , 2018, , .		6
30	Singular perturbation-based saturated adaptive control for underactuated Euler-Lagrange systems. <i>ISA Transactions</i> , 2022, 119, 74-80.	3.1	6
31	Explicit stochastic model predictive control for anti-pitching a high-speed multihull. <i>Applied Ocean Research</i> , 2022, 119, 102917.	1.8	6
32	Robustness analysis of composite adaptive robot control. , 2016, , .		5
33	Enhanced parameter estimation in adaptive control via online historical data. <i>IET Control Theory and Applications</i> , 2019, 13, 2710-2716.	1.2	4
34	Modeling, identification and robust H_{∞} static output feedback control of lateral dynamics of a miniature helicopter. , 2011, , .		3
35	Leader-Based Consensus of Heterogeneous Nonlinear Multiagent Systems. <i>Mathematical Problems in Engineering</i> , 2014, 2014, 1-6.	0.6	3
36	Biomimetic composite learning for robot motion control. , 2016, , .		3

#	ARTICLE	IF	CITATIONS
37	Singular Perturbation-based Variable Impedance Control of Robots with Series Elastic Actuators. , 2019, , .		3
38	Super-Twisting Nonsingular Terminal Sliding Mode-Based Robust Impedance Control of Robots. Complexity, 2022, 2022, 1-6.	0.9	3
39	Finite-Time Interactive Control of Robots with Multiple Interaction Modes. Sensors, 2022, 22, 3668.	2.1	3
40	Disturbance Rejection Speed Control Based on Linear Extended State Observer for Isokinetic Muscle Strength Training System. IEEE Transactions on Automation Science and Engineering, 2023, 20, 1962-1971.	3.4	3
41	Lyapunov-based environmental boundary tracking control of mobile robots. , 2012, , .		2
42	Active disturbance rejection-based sliding mode control for a surface vessel. , 2015, , .		2
43	Predictive control for straight path following of underactuated surface vessels with roll constraints. , 2016, , .		2
44	Observer-based finite-time tracking control for formations of mobile robots. , 2014, , .		1
45	Trajectory-linearization Based Robust Model Predictive Control for Unmanned Surface Vessels with System Constraints. Information Technology and Control, 2017, 45, .	1.1	1
46	Robust Impedance Control for a Five-Bar Parallel Robot Based on Uncertainty Estimation. , 2020, , .		1
47	Global output feedback control of nonlinear systems with uncertain supply rates. , 2014, , .		0
48	Characteristic model-based robust predictive control for reentry hypersonic vehicle with constraints. , 2016, , .		0
49	Characteristic Model-Based Robust Model Predictive Control for Hypersonic Vehicles with Constraints. Frontiers in Robotics and AI, 2017, 4, .	2.0	0
50	Robust Tracking Control of Nonlinear Systems with Prescribed Performance. , 2018, , .		0
51	Saturated nonlinear control of robots with series elastic actuators. , 2021, , .		0