

Tairen Sun

List of Publications by Year in descending order

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51
papers

1,266
citations

394421

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docs citations

52
times ranked

1075
citing authors

#	ARTICLE	IF	CITATIONS
1	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.	5.2	3
2	Singular perturbation-based saturated adaptive control for underactuated Euler-Lagrange systems. ISA Transactions, 2022, 119, 74-80.	5.7	6
3	Explicit stochastic model predictive control for anti-pitching a high-speed multihull. Applied Ocean Research, 2022, 119, 102917.	4.1	6
4	Super-Twisting Nonsingular Terminal Sliding Mode-Based Robust Impedance Control of Robots. Complexity, 2022, 2022, 1-6.	1.6	3
5	Finite-Time Interactive Control of Robots with Multiple Interaction Modes. Sensors, 2022, 22, 3668.	3.8	3
6	Stability-Guaranteed Variable Impedance Control of Robots Based on Approximate Dynamic Inversion. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2021, 51, 4193-4200.	9.3	30
7	Novel sliding-mode disturbance observer-based tracking control with applications to robot manipulators. Science China Information Sciences, 2021, 64, 1.	4.3	16
8	Saturated nonlinear control of robots with series elastic actuators. , 2021, , .		0
9	Composite Learning Enhanced Robot Impedance Control. IEEE Transactions on Neural Networks and Learning Systems, 2020, 31, 1052-1059.	11.3	52
10	Semiglobal exponential control of Euler-Lagrange systems using a sliding-mode disturbance observer. Automatica, 2020, 112, 108677.	5.0	47
11	Learning impedance control of robots with enhanced transient and steady-state control performances. Science China Information Sciences, 2020, 63, 1.	4.3	13
12	Neural approximation-based adaptive variable impedance control of robots. Transactions of the Institute of Measurement and Control, 2020, 42, 2589-2598.	1.7	12
13	Robust Impedance Control for a Five-Bar Parallel Robot Based on Uncertainty Estimation. , 2020, , .		1
14	On parameter convergence in least squares identification and adaptive control. International Journal of Robust and Nonlinear Control, 2019, 29, 2898-2911.	3.7	28
15	Singular Perturbation-based Variable Impedance Control of Robots with Series Elastic Actuators. , 2019, , .		3
16	Robust adaptive control for prescribed performance tracking of constrained uncertain nonlinear systems. Journal of the Franklin Institute, 2019, 356, 18-30.	3.4	30
17	Enhanced parameter estimation in adaptive control via online historical data. IET Control Theory and Applications, 2019, 13, 2710-2716.	2.1	4
18	Robust model predictive control for constrained continuous-time nonlinear systems. International Journal of Control, 2018, 91, 359-368.	1.9	38

#	ARTICLE	IF	CITATIONS
19	Robust Control of a Serial Variable Stiffness Actuator Based on Nonlinear Disturbance Observer (NDOB). , 2018, , .		6
20	Robust Tracking Control of Nonlinear Systems with Prescribed Performance. , 2018, , .		0
21	Active Disturbance Rejection Control of Surface Vessels Using Composite Error Updated Extended State Observer. Asian Journal of Control, 2017, 19, 1802-1811.	3.0	29
22	Composite adaptive locally weighted learning control for multi-constraint nonlinear systems. Applied Soft Computing Journal, 2017, 61, 1098-1104.	7.2	13
23	Composite learning from adaptive backstepping neural network control. Neural Networks, 2017, 95, 134-142.	5.9	97
24	Robust model predictive control of the automatic operation boats for aquaculture. Computers and Electronics in Agriculture, 2017, 142, 118-125.	7.7	13
25	Robust model predictive control for path-following of underactuated surface vessels with roll constraints. Ocean Engineering, 2017, 143, 125-132.	4.3	70
26	Adaptive fuzzy PD control with stable \hat{H}^{∞} tracking guarantee. Neurocomputing, 2017, 237, 71-78.	5.9	34
27	Adaptive Control for Nonaffine Nonlinear Systems Using Reliable Neural Network Approximation. IEEE Access, 2017, 5, 23657-23662.	4.2	16
28	Characteristic Model-Based Robust Model Predictive Control for Hypersonic Vehicles with Constraints. Frontiers in Robotics and AI, 2017, 4, .	3.2	0
29	Adaptive Neural Network Control of Serial Variable Stiffness Actuators. Complexity, 2017, 2017, 1-9.	1.6	15
30	Trajectory-linearization Based Robust Model Predictive Control for Unmanned Surface Vessels with System Constraints. Information Technology and Control, 2017, 45, .	2.1	1
31	Composite adaptive dynamic surface control using online recorded data. International Journal of Robust and Nonlinear Control, 2016, 26, 3921-3936.	3.7	71
32	Characteristic model-based robust predictive control for reentry hypersonic vehicle with constraints. , 2016, , .		0
33	Predictive control for straight path following of underactuated surface vessels with roll constraints. , 2016, , .		2
34	Robustness analysis of composite adaptive robot control. , 2016, , .		5
35	Biomimetic composite learning for robot motion control. , 2016, , .		3
36	Disturbance observer-based sliding manifold predictive control for reentry hypersonic vehicles with multi-constraint. Proceedings of the Institution of Mechanical Engineers, Part G: Journal of Aerospace Engineering, 2016, 230, 485-495.	1.3	9

#	ARTICLE	IF	CITATIONS
37	Active disturbance rejection-based sliding mode control for a surface vessel. , 2015, , .		2
38	Peaking-Free Output-Feedback Adaptive Neural Control Under a Nonseparation Principle. IEEE Transactions on Neural Networks and Learning Systems, 2015, 26, 3097-3108.	11.3	27
39	Global Asymptotic Stabilization Using Adaptive Fuzzy PD Control. IEEE Transactions on Cybernetics, 2015, 45, 574-582.	9.5	24
40	Leader-Based Consensus of Heterogeneous Nonlinear Multiagent Systems. Mathematical Problems in Engineering, 2014, 2014, 1-6.	1.1	3
41	Neural Network Observer-Based Finite-Time Formation Control of Mobile Robots. Mathematical Problems in Engineering, 2014, 2014, 1-9.	1.1	10
42	Observer-based finite-time tracking control for formations of mobile robots. , 2014, , .		1
43	Robust Tracking Control of Helicopters Using Backstepping with Disturbance Observers. Asian Journal of Control, 2014, 16, 1387-1402.	3.0	36
44	Global output feedback control of nonlinear systems with uncertain supply rates. , 2014, , .		0
45	Robust adaptive neural network control for environmental boundary tracking by mobile robots. International Journal of Robust and Nonlinear Control, 2013, 23, 123-136.	3.7	64
46	Composite adaptive fuzzy H ∞ tracking control of uncertain nonlinear systems. Neurocomputing, 2013, 99, 15-24.	5.9	135
47	Lyapunov-based environmental boundary tracking control of mobile robots. , 2012, , .		2
48	Composite adaptive fuzzy control for synchronizing generalized Lorenz systems. Chaos, 2012, 22, 023144.	2.5	41
49	Neural network-based sliding mode adaptive control for robot manipulators. Neurocomputing, 2011, 74, 2377-2384.	5.9	215
50	Robust wavelet network control for a class of autonomous vehicles to track environmental contour line. Neurocomputing, 2011, 74, 2886-2892.	5.9	20
51	Modeling, identification and robust H ∞ static output feedback control of lateral dynamics of a miniature helicopter. , 2011, , .		3