

Tairen Sun

List of Publications by Year in descending order

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Version: 2024-02-01

51
papers

1,266
citations

394421

19
h-index

361022

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. | 5.9 | 215 |
| 2 | Composite adaptive fuzzy H^∞ tracking control of uncertain nonlinear systems. <i>Neurocomputing</i> , 2013, 99, 15-24. | 5.9 | 135 |
| 3 | Composite learning from adaptive backstepping neural network control. <i>Neural Networks</i> , 2017, 95, 134-142. | 5.9 | 97 |
| 4 | Composite adaptive dynamic surface control using online recorded data. <i>International Journal of Robust and Nonlinear Control</i> , 2016, 26, 3921-3936. | 3.7 | 71 |
| 5 | Robust model predictive control for path-following of underactuated surface vessels with roll constraints. <i>Ocean Engineering</i> , 2017, 143, 125-132. | 4.3 | 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. | 3.7 | 64 |
| 7 | Composite Learning Enhanced Robot Impedance Control. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 2020, 31, 1052-1059. | 11.3 | 52 |
| 8 | Semiglobal exponential control of Euler-Lagrange systems using a sliding-mode disturbance observer. <i>Automatica</i> , 2020, 112, 108677. | 5.0 | 47 |
| 9 | Composite adaptive fuzzy control for synchronizing generalized Lorenz systems. <i>Chaos</i> , 2012, 22, 023144. | 2.5 | 41 |
| 10 | Robust model predictive control for constrained continuous-time nonlinear systems. <i>International Journal of Control</i> , 2018, 91, 359-368. | 1.9 | 38 |
| 11 | Robust Tracking Control of Helicopters Using Backstepping with Disturbance Observers. <i>Asian Journal of Control</i> , 2014, 16, 1387-1402. | 3.0 | 36 |
| 12 | Adaptive fuzzy PD control with stable H^∞ tracking guarantee. <i>Neurocomputing</i> , 2017, 237, 71-78. | 5.9 | 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. | 3.4 | 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. | 9.3 | 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. | 3.0 | 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. | 3.7 | 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. | 11.3 | 27 |
| 18 | Global Asymptotic Stabilization Using Adaptive Fuzzy PD Control. <i>IEEE Transactions on Cybernetics</i> , 2015, 45, 574-582. | 9.5 | 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. | 5.9 | 20 |
| 20 | Adaptive Control for Nonaffine Nonlinear Systems Using Reliable Neural Network Approximation. <i>IEEE Access</i> , 2017, 5, 23657-23662. | 4.2 | 16 |
| 21 | Novel sliding-mode disturbance observer-based tracking control with applications to robot manipulators. <i>Science China Information Sciences</i> , 2021, 64, 1. | 4.3 | 16 |
| 22 | Adaptive Neural Network Control of Serial Variable Stiffness Actuators. <i>Complexity</i> , 2017, 2017, 1-9. | 1.6 | 15 |
| 23 | Composite adaptive locally weighted learning control for multi-constraint nonlinear systems. <i>Applied Soft Computing Journal</i> , 2017, 61, 1098-1104. | 7.2 | 13 |
| 24 | Robust model predictive control of the automatic operation boats for aquaculture. <i>Computers and Electronics in Agriculture</i> , 2017, 142, 118-125. | 7.7 | 13 |
| 25 | Learning impedance control of robots with enhanced transient and steady-state control performances. <i>Science China Information Sciences</i> , 2020, 63, 1. | 4.3 | 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. | 1.7 | 12 |
| 27 | Neural Network Observer-Based Finite-Time Formation Control of Mobile Robots. <i>Mathematical Problems in Engineering</i> , 2014, 2014, 1-9. | 1.1 | 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. | 1.3 | 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. | 5.7 | 6 |
| 31 | Explicit stochastic model predictive control for anti-pitching a high-speed multihull. <i>Applied Ocean Research</i> , 2022, 119, 102917. | 4.1 | 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. | 2.1 | 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. | 1.1 | 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. | 1.6 | 3 |
| 39 | Finite-Time Interactive Control of Robots with Multiple Interaction Modes. Sensors, 2022, 22, 3668. | 3.8 | 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. | 5.2 | 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, . | 2.1 | 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, . | 3.2 | 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 |