

# Shuzhi Sam Ge

## List of Publications by Year in descending order

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535  
papers

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578  
all docs

578  
docs citations

578  
times ranked

10413  
citing authors

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 1  | Barrier Lyapunov Functions for the control of output-constrained nonlinear systems. Automatica, 2009, 45, 918-927.   | 3.0 | 2,061     |
| 2  | Adaptive tracking control of uncertain MIMO nonlinear systems with input constraints. Automatica, 2011, 47, 452-465.   | 3.0 | 901       |
| 3  | Adaptive Neural Control for Output Feedback Nonlinear Systems Using a Barrier Lyapunov Function. IEEE Transactions on Neural Networks, 2010, 21, 1339-1345.                                  | 4.8 | 857       |
| 4  | Control of nonlinear systems with time-varying output constraints. Automatica, 2011, 47, 2511-2516.  | 3.0 | 803       |
| 5  | Adaptive Neural Control of Uncertain MIMO Nonlinear Systems. IEEE Transactions on Neural Networks, 2004, 15, 674-692.  | 4.8 | 781       |
| 6  | Robust Adaptive Neural Network Control for a Class of Uncertain MIMO Nonlinear Systems With Input Nonlinearities. IEEE Transactions on Neural Networks, 2010, 21, 796-812.                   | 4.8 | 711       |
| 7  | Adaptive Neural Control of Nonlinear Time-Delay Systems With Unknown Virtual Control Coefficients. IEEE Transactions on Systems, Man, and Cybernetics, 2004, 34, 499-516.                    | 5.5 | 608       |
| 8  | Leader-follower formation control of underactuated autonomous underwater vehicles. Ocean Engineering, 2010, 37, 1491-1502.   | 1.9 | 553       |
| 9  | Cooperative control of a nonuniform gantry crane with constrained tension. Automatica, 2016, 66, 146-154.  | 3.0 | 520       |
| 10 | Design and Analysis of a General Recurrent Neural Network Model for Time-Varying Matrix Inversion. IEEE Transactions on Neural Networks, 2005, 16, 1477-1490.                                | 4.8 | 486       |
| 11 | Adaptive Control of a Flexible Crane System With the Boundary Output Constraint. IEEE Transactions on Industrial Electronics, 2014, 61, 4126-4133.   | 5.2 | 431       |
| 12 | Robust adaptive tracking for time-varying uncertain nonlinear systems with unknown control coefficients. IEEE Transactions on Automatic Control, 2003, 48, 1463-1469.                        | 3.6 | 396       |
| 13 | Control of nonlinear systems with partial state constraints using a barrier Lyapunov function. International Journal of Control, 2011, 84, 2008-2023.  | 1.2 | 379       |
| 14 | Robust adaptive boundary control of a flexible marine riser with vessel dynamics. Automatica, 2011, 47, 722-732.   | 3.0 | 378       |
| 15 | Adaptive Neural Output Feedback Control of Uncertain Nonlinear Systems With Unknown Hysteresis Using Disturbance Observer. IEEE Transactions on Industrial Electronics, 2015, 62, 7706-7716. | 5.2 | 369       |
| 16 | Adaptive Fuzzy Control of a Class of Nonlinear Systems by Fuzzy Approximation Approach. IEEE Transactions on Fuzzy Systems, 2012, 20, 1012-1021.   | 6.5 | 363       |
| 17 | Direct Adaptive Neural Control for a Class of Uncertain Nonaffine Nonlinear Systems Based on Disturbance Observer. IEEE Transactions on Cybernetics, 2013, 43, 1213-1225.                    | 6.2 | 363       |
| 18 | Stability Theory of Switched Dynamical Systems. Communications and Control Engineering, 2011, . .  | 1.0 | 362       |

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 19 | Finite Time Fault Tolerant Control for Robot Manipulators Using Time Delay Estimation and Continuous Nonsingular Fast Terminal Sliding Mode Control. IEEE Transactions on Cybernetics, 2017, 47, 1681-1693.             | 6.2 | 332       |
| 20 | Adaptive Neural Network Tracking Control of MIMO Nonlinear Systems With Unknown Dead Zones and Control Directions. IEEE Transactions on Neural Networks, 2009, 20, 483-497.   | 4.8 | 320       |
| 21 | Adaptive neural network control of nonlinear systems with unknown time delays. IEEE Transactions on Automatic Control, 2003, 48, 2004-2010.   | 3.6 | 295       |
| 22 | Vibration Control of a Flexible Beam With Output Constraint. IEEE Transactions on Industrial Electronics, 2015, 62, 5023-5030.  | 5.2 | 288       |
| 23 | An Adaptive Backstepping Nonsingular Fast Terminal Sliding Mode Control for Robust Fault Tolerant Control of Robot Manipulators. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2019, 49, 1448-1458.      | 5.9 | 288       |
| 24 | Unified iterative learning control for flexible structures with input constraints. Automatica, 2018, 96, 326-336.   | 3.0 | 283       |
| 25 | Neural-network control of nonaffine nonlinear system with zero dynamics by state and output feedback. IEEE Transactions on Neural Networks, 2003, 14, 900-918.  | 4.8 | 279       |
| 26 | A Unified Quadratic-Programming-Based Dynamical System Approach to Joint Torque Optimization of Physically Constrained Redundant Manipulators. IEEE Transactions on Systems, Man, and Cybernetics, 2004, 34, 2126-2132. | 5.5 | 259       |
| 27 | Adaptive Neural Network Control of a Robotic Manipulator With Time-Varying Output Constraints. IEEE Transactions on Cybernetics, 2017, 47, 3136-3147.   | 6.2 | 256       |
| 28 | Autonomous vehicle positioning with gps in urban canyon environments. IEEE Transactions on Automation Science and Engineering, 2003, 19, 15-25.   | 2.4 | 248       |
| 29 | Human-Robot Collaboration Based on Motion Intention Estimation. IEEE/ASME Transactions on Mechatronics, 2014, 19, 1007-1014.  | 3.7 | 240       |
| 30 | Approximation-Based Adaptive Tracking Control of Pure-Feedback Nonlinear Systems With Multiple Unknown Time-Varying Delays. IEEE Transactions on Neural Networks, 2010, 21, 1804-1816.                                  | 4.8 | 239       |
| 31 | Robust Adaptive Position Mooring Control for Marine Vessels. IEEE Transactions on Control Systems Technology, 2013, 21, 395-409.  | 3.2 | 225       |
| 32 | Adaptive Neural Network Control of a Fully Actuated Marine Surface Vessel With Multiple Output Constraints. IEEE Transactions on Control Systems Technology, 2014, 22, 1536-1543.                                       | 3.2 | 211       |
| 33 | Output Feedback NN Control for Two Classes of Discrete-Time Systems With Unknown Control Directions in a Unified Approach. IEEE Transactions on Neural Networks, 2008, 19, 1873-1886.                                   | 4.8 | 208       |
| 34 | Neural Network Control of a Rehabilitation Robot by State and Output Feedback. Journal of Intelligent and Robotic Systems: Theory and Applications, 2015, 80, 15-31.  | 2.0 | 208       |
| 35 | Robust Adaptive Neural Tracking Control for a Class of Perturbed Uncertain Nonlinear Systems With State Constraints. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2016, 46, 1618-1629.                  | 5.9 | 205       |
| 36 | Top Tension Control of a Flexible Marine Riser by Using Integral-Barrier Lyapunov Function. IEEE/ASME Transactions on Mechatronics, 2015, 20, 497-505.  | 3.7 | 202       |

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|----|--|-----|-----------|
| 37 | Face Recognition by Applying Wavelet Subband Representation and Kernel Associative Memory. IEEE Transactions on Neural Networks, 2004, 15, 166-177.  | 4.8 | 195       |
| 38 | Adaptive Neural Network Control for a Class of MIMO Nonlinear Systems With Disturbances in Discrete-Time. IEEE Transactions on Systems, Man, and Cybernetics, 2004, 34, 1630-1645.   | 5.5 | 194       |
| 39 | Adaptive neural control for a class of switched nonlinear systems. Systems and Control Letters, 2009, 58, 109-118.   | 1.3 | 192       |
| 40 | Adaptive Neural Control for a Class of Uncertain Nonlinear Systems in Pure-Feedback Form With Hysteresis Input. IEEE Transactions on Systems, Man, and Cybernetics, 2009, 39, 431-443.   | 5.5 | 187       |
| 41 | Globally Stable Adaptive Backstepping Neural Network Control for Uncertain Strict-Feedback Systems With Tracking Accuracy Known &lt;italic>a Priori&lt;/italic>. IEEE Transactions on Neural Networks and Learning Systems, 2015, 26, 1842-1854. | 7.2 | 186       |
| 42 | Adaptive Predictive Control Using Neural Network for a Class of Pure-Feedback Systems in Discrete Time. IEEE Transactions on Neural Networks, 2008, 19, 1599-1614.   | 4.8 | 183       |
| 43 | Adaptive output-feedback control for a class of uncertain stochastic non-linear systems with time delays. International Journal of Control, 2008, 81, 1210-1220.   | 1.2 | 179       |
| 44 | Robust adaptive control of a thruster assisted position mooring system. Automatica, 2014, 50, 1843-1851.   | 3.0 | 174       |
| 45 | Adaptive NN Control of a Class of Nonlinear Systems With Asymmetric Saturation Actuators. IEEE Transactions on Neural Networks and Learning Systems, 2015, 26, 1532-1538.  | 7.2 | 166       |
| 46 | Adaptive Robust Motion/Force Control of Holonomic-Constrained Nonholonomic Mobile Manipulators. IEEE Transactions on Systems, Man, and Cybernetics, 2007, 37, 607-616.   | 5.5 | 157       |
| 47 | Control of state-constrained nonlinear systems using Integral Barrier Lyapunov Functionals. , 2012, , .  |     | 155       |
| 48 | Output feedback adaptive control of a class of nonlinear discrete-time systems with unknown control directions. Automatica, 2009, 45, 270-276.   | 3.0 | 154       |
| 49 | Adaptive Tracking Control of Surface Vessel Using Optimized Backstepping Technique. IEEE Transactions on Cybernetics, 2019, 49, 3420-3431.   | 6.2 | 138       |
| 50 | Vibration control of an Eulerâ€Bernoulli beam under unknown spatiotemporally varying disturbance. International Journal of Control, 2011, 84, 947-960.   | 1.2 | 135       |
| 51 | Constrained Multilegged Robot System Modeling and Fuzzy Control With Uncertain Kinematics and Dynamics Incorporating Foot Force Optimization. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2016, 46, 1-15.                       | 5.9 | 135       |
| 52 | Optimized Backstepping for Tracking Control of Strict-Feedback Systems. IEEE Transactions on Neural Networks and Learning Systems, 2018, 29, 3850-3862.  | 7.2 | 135       |
| 53 | Adaptive actuator fault tolerant control for uncertain nonlinear systems with multiple actuators. Automatica, 2015, 60, 92-99.   | 3.0 | 129       |
| 54 | fNIRS-based online deception decoding. Journal of Neural Engineering, 2012, 9, 026012.   | 1.8 | 125       |

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 55 | Scheduling-and-Control Codesign for a Collection of Networked Control Systems With Uncertain Delays. IEEE Transactions on Control Systems Technology, 2010, 18, 66-78.                   | 3.2 | 123       |
| 56 | Boundary Control of a Coupled Nonlinear Flexible Marine Riser. IEEE Transactions on Control Systems Technology, 2010, 18, 1080-1091.   | 3.2 | 123       |
| 57 | Adaptive neural network control for active suspension system with actuator saturation. IET Control Theory and Applications, 2016, 10, 1696-1705.   | 1.2 | 122       |
| 58 | Impedance Learning for Robots Interacting With Unknown Environments. IEEE Transactions on Control Systems Technology, 2014, 22, 1422-1432.   | 3.2 | 121       |
| 59 | Automatic Welding Seam Tracking and Identification. IEEE Transactions on Industrial Electronics, 2017, 64, 7261-7271.  | 5.2 | 117       |
| 60 | Modeling and Vibration Control for a Nonlinear Moving String With Output Constraint. IEEE/ASME Transactions on Mechatronics, 2015, 20, 1886-1897.  | 3.7 | 116       |
| 61 | Simplified Optimized Backstepping Control for a Class of Nonlinear Strict-Feedback Systems With Unknown Dynamic Functions. IEEE Transactions on Cybernetics, 2021, 51, 4567-4580.        | 6.2 | 114       |
| 62 | Two-Layer Distributed Formation-Containment Control of Multiple Euler-Lagrange Systems by Output Feedback. IEEE Transactions on Cybernetics, 2019, 49, 675-687.                          | 6.2 | 111       |
| 63 | Adaptive boundary control of a flexible marine installation system. Automatica, 2011, 47, 2728-2734.   | 3.0 | 106       |
| 64 | Vibration Control of a Nonuniform Wind Turbine Tower via Disturbance Observer. IEEE/ASME Transactions on Mechatronics, 2015, 20, 237-244.  | 3.7 | 105       |
| 65 | Optimized Adaptive Nonlinear Tracking Control Using Actor-Critic Reinforcement Learning Strategy. IEEE Transactions on Industrial Informatics, 2019, 15, 4969-4977.                      | 7.2 | 104       |
| 66 | Multilayer formation control of multi-agent systems. Automatica, 2019, 109, 108558.  | 3.0 | 103       |
| 67 | Fixed-Time-Synchronized Consensus Control of Multiagent Systems. IEEE Transactions on Control of Network Systems, 2021, 8, 89-98.  | 2.4 | 103       |
| 68 | Practical Adaptive Neural Control of Nonlinear Systems With Unknown Time Delays. IEEE Transactions on Systems, Man, and Cybernetics, 2005, 35, 849-854.                                  | 5.5 | 101       |
| 69 | Adaptive Neural Network Control for Helicopters in Vertical Flight. IEEE Transactions on Control Systems Technology, 2008, 16, 753-762.  | 3.2 | 96        |
| 70 | Consensus-based distributed cooperative learning control for a group of discrete-time nonlinear multi-agent systems using neural networks. Automatica, 2014, 50, 2254-2268.              | 3.0 | 94        |
| 71 | Adaptive Fuzzy Integral Sliding-Mode Control for Robust Fault-Tolerant Control of Robot Manipulators With Disturbance Observer. IEEE Transactions on Fuzzy Systems, 2021, 29, 1284-1296. | 6.5 | 93        |
| 72 | Weighted locally linear embedding for dimension reduction. Pattern Recognition, 2009, 42, 798-811.   | 5.1 | 92        |

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|----|---|-----|-----------|
| 73 | Active control of flexible marine risers. <i>Journal of Sound and Vibration</i> , 2009, 320, 758-776.   | 2.1 | 90        |
| 74 | Dynamic modeling and vibration control of a flexible satellite. <i>IEEE Transactions on Aerospace and Electronic Systems</i> , 2015, 51, 1422-1431.   | 2.6 | 89        |
| 75 | Drift Compensation for Electronic Nose by Semi-Supervised Domain Adaption. <i>IEEE Sensors Journal</i> , 2014, 14, 657-665.   | 2.4 | 88        |
| 76 | Adaptive Boundary Control of a Nonlinear Flexible String System. <i>IEEE Transactions on Control Systems Technology</i> , 2014, 22, 1088-1093.  | 3.2 | 87        |
| 77 | Boundary Output-Feedback Stabilization of a Timoshenko Beam Using Disturbance Observer. <i>IEEE Transactions on Industrial Electronics</i> , 2013, 60, 5186-5194.   | 5.2 | 85        |
| 78 | Adaptive Neural Control for a Class of Nonlinear Systems With Uncertain Hysteresis Inputs and Time-Varying State Delays. <i>IEEE Transactions on Neural Networks</i> , 2009, 20, 1148-1164.               | 4.8 | 83        |
| 79 | Sliding-Mode-Observer-Based Adaptive Slip Ratio Control for Electric and Hybrid Vehicles. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2012, 13, 1617-1626.                           | 4.7 | 83        |
| 80 | Vibration Control of a Flexible String With Both Boundary Input and Output Constraints. <i>IEEE Transactions on Control Systems Technology</i> , 2015, 23, 1245-1254.                                     | 3.2 | 82        |
| 81 | Small traffic sign detection from large image. <i>Applied Intelligence</i> , 2020, 50, 1-13.  | 3.3 | 82        |
| 82 | Learning impedance control for physical robot–environment interaction. <i>International Journal of Control</i> , 2012, 85, 182-193.   | 1.2 | 81        |
| 83 | Reduction of trial-to-trial variability in functional near-infrared spectroscopy signals by accounting for resting-state functional connectivity. <i>Journal of Biomedical Optics</i> , 2013, 18, 017003. | 1.4 | 81        |
| 84 | Adaptive robust control of a class of nonlinear strict-feedback discrete-time systems with unknown control directions. <i>Systems and Control Letters</i> , 2008, 57, 888-895.                            | 1.3 | 80        |
| 85 | Robust adaptive control of coordinated multiple mobile manipulators. <i>Mechatronics</i> , 2008, 18, 239-250.   | 2.0 | 78        |
| 86 | Adaptive Robust Output-Feedback Motion/Force Control of Electrically Driven Nonholonomic Mobile Manipulators. <i>IEEE Transactions on Control Systems Technology</i> , 2008, 16, 1308-1315.               | 3.2 | 78        |
| 87 | Boundary Control of a Flexible Riser With the Application to Marine Installation. <i>IEEE Transactions on Industrial Electronics</i> , 2013, 60, 5802-5810.   | 5.2 | 76        |
| 88 | Adaptive Output Feedback NN Control of a Class of Discrete-Time MIMO Nonlinear Systems With Unknown Control Directions. <i>IEEE Transactions on Systems, Man, and Cybernetics</i> , 2011, 41, 507-517.    | 5.5 | 75        |
| 89 | Hand gesture recognition and tracking based on distributed locally linear embedding. <i>Image and Vision Computing</i> , 2008, 26, 1607-1620.   | 2.7 | 74        |
| 90 | Distributed Attitude Coordinated Control of Multiple Spacecraft With Attitude Constraints. <i>IEEE Transactions on Aerospace and Electronic Systems</i> , 2018, 54, 2233-2245.                            | 2.6 | 74        |

| #   | ARTICLE   | IF  | CITATIONS |
|-----|---|-----|-----------|
| 91  | Control of nonlinear systems with full state constraint using a Barrier Lyapunov Function. , 2009, , .  |     | 73        |
| 92  | Recognition of stimulus-evoked neuronal optical response by identifying chaos levels of near-infrared spectroscopy time series. Neuroscience Letters, 2011, 504, 115-120.                                 | 1.0 | 72        |
| 93  | Adaptive neural control for an uncertain robotic manipulator with joint space constraints. International Journal of Control, 2016, 89, 1428-1446.   | 1.2 | 72        |
| 94  | On Time-Synchronized Stability and Control. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2022, 52, 2450-2463.   | 5.9 | 72        |
| 95  | Robust Fault-Tolerant Control for a Class of Second-Order Nonlinear Systems Using an Adaptive Third-Order Sliding Mode Control. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2016, , 1-8. | 5.9 | 69        |
| 96  | Adaptive dynamic surface control for a class of strict-feedback nonlinear systems with unknown backlash-like hysteresis. , 2009, , .  |     | 67        |
| 97  | Output Feedback Control of a Class of Discrete MIMO Nonlinear Systems With Triangular Form Inputs. IEEE Transactions on Neural Networks, 2005, 16, 1491-1503.   | 4.8 | 64        |
| 98  | Stabilization and tracking control for a class of nonlinear systems. Nonlinear Analysis: Real World Applications, 2011, 12, 1786-1796.  | 0.9 | 64        |
| 99  | End-Effector Force Estimation for Flexible-Joint Robots With Global Friction Approximation Using Neural Networks. IEEE Transactions on Industrial Informatics, 2019, 15, 1730-1741.                       | 7.2 | 63        |
| 100 | Detection of event-related hemodynamic response to neuroactivation by dynamic modeling of brain activity. NeuroImage, 2012, 63, 553-568.  | 2.1 | 62        |
| 101 | Formation Tracking Control of Multiagents in Constrained Space. IEEE Transactions on Control Systems Technology, 2016, 24, 992-1003.  | 3.2 | 62        |
| 102 | Persistent Dwell-Time Switched Nonlinear Systems: Variation Paradigm and Gauge Design. IEEE Transactions on Automatic Control, 2010, 55, 321-337.   | 3.6 | 61        |
| 103 | Impedance adaptation for optimal robotâ€environment interaction. International Journal of Control, 2014, 87, 249-263.   | 1.2 | 61        |
| 104 | Data Driven Adaptive Predictive Control for Holonomic Constrained Under-Actuated Biped Robots. IEEE Transactions on Control Systems Technology, 2012, 20, 787-795.  | 3.2 | 60        |
| 105 | Boundary Following and Globally Convergent Path Planning Using Instant Goals. IEEE Transactions on Systems, Man, and Cybernetics, 2005, 35, 240-254.  | 5.5 | 59        |
| 106 | Disturbance and Friction Compensations in Hard Disk Drives Using Neural Networks. IEEE Transactions on Industrial Electronics, 2010, 57, 784-792.   | 5.2 | 59        |
| 107 | Cortical brain imaging by adaptive filtering of NIRS signals. Neuroscience Letters, 2012, 514, 35-41.   | 1.0 | 59        |
| 108 | Robust Adaptive Control for a Class of MIMO Nonlinear Systems by State and Output Feedback. IEEE Transactions on Automatic Control, 2014, 59, 1624-1629.  | 3.6 | 59        |

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|-----|---|-----|-----------|
| 109 | Neural network tracking control of ocean surface vessels with input saturation. , 2009, , .   |     | 58        |
| 110 | Robust Adaptive Control of Cooperating Mobile Manipulators With Relative Motion. IEEE Transactions on Systems, Man, and Cybernetics, 2009, 39, 103-116.             | 5.5 | 57        |
| 111 | Cognitive Radio Based State Estimation in Cyber-Physical Systems. IEEE Journal on Selected Areas in Communications, 2014, 32, 489-502.                              | 9.7 | 56        |
| 112 | Adaptive Control of Robotic Manipulators With Unified Motion Constraints. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2017, 47, 184-194.           | 5.9 | 56        |
| 113 | An integrated multi-population genetic algorithm for multi-vehicle task assignment in a drift field. Information Sciences, 2018, 453, 227-238.                      | 4.0 | 56        |
| 114 | Event-Triggered Coordination for Formation Tracking Control in Constrained Space With Limited Communication. IEEE Transactions on Cybernetics, 2019, 49, 1000-1011. | 6.2 | 56        |
| 115 | Nonlinear Control of a Dynamic Model of HIV-1. IEEE Transactions on Biomedical Engineering, 2005, 52, 353-361.  | 2.5 | 55        |
| 116 | Adaptive control of a class of discrete-time MIMO nonlinear systems with uncertain couplings. International Journal of Control, 2010, 83, 2120-2133.                | 1.2 | 55        |
| 117 | Dynamics and Control of Mechanical Systems in Offshore Engineering. Advances in Industrial Control, 2014, , .   | 0.4 | 55        |
| 118 | Adaptive bias RBF neural network control for a robotic manipulator. Neurocomputing, 2021, 447, 213-223.   | 3.5 | 54        |
| 119 | A noniterative neuro-fuzzy based identification method for Hammerstein processes. Journal of Process Control, 2005, 15, 749-761.                                    | 1.7 | 53        |
| 120 | Vibration Control of Flexible Marine Riser Systems with Input Saturation. IEEE/ASME Transactions on Mechatronics, 2015, , 1-1.                                      | 3.7 | 53        |
| 121 | Adaptive control of a quadrotor aerial vehicle with input constraints and uncertain parameters. International Journal of Control, 2018, 91, 1140-1160.              | 1.2 | 53        |
| 122 | Robust Adaptive Boundary Control of a Vibrating String Under Unknown Time-Varying Disturbance. IEEE Transactions on Control Systems Technology, 2011, , .           | 3.2 | 52        |
| 123 | A Survey on Visual Navigation for Artificial Agents With Deep Reinforcement Learning. IEEE Access, 2020, 8, 135426-135442.  | 2.6 | 52        |
| 124 | Dynamic output feedback stabilization of a class of switched linear systems. IEEE Transactions on Circuits and Systems Part 1: Regular Papers, 2003, 50, 1111-1115. | 0.1 | 50        |
| 125 | Robust adaptive control of a class of nonlinear strict-feedback discrete-time systems with exact output tracking. Automatica, 2009, 45, 2537-2545.                  | 3.0 | 50        |
| 126 | Robust Welding Seam Tracking and Recognition. IEEE Sensors Journal, 2017, 17, 5609-5617.  | 2.4 | 48        |



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|-----|---|-----|-----------|
| 127 | Vision-Based Leader-Follower Formation Control of Multiagents With Visibility Constraints. IEEE Transactions on Control Systems Technology, 2019, 27, 1326-1333.  | 3.2 | 46        |
| 128 | Simultaneous Arrival to Origin Convergence: Sliding-Mode Control Through the Norm-Normalized Sign Function. IEEE Transactions on Automatic Control, 2022, 67, 1966-1972.                                  | 3.6 | 46        |
| 129 | A global Implicit Function Theorem without initial point and its applications to control of non-affine systems of high dimensions. Journal of Mathematical Analysis and Applications, 2006, 313, 251-261. | 0.5 | 45        |
| 130 | Robust adaptive control for a class of uncertain strict-feedback nonlinear systems. International Journal of Robust and Nonlinear Control, 2009, 19, 746-767.   | 2.1 | 45        |
| 131 | Artificial Potential-Based Adaptive $H_{\infty}$ Synchronized Tracking Control for Accommodation Vessel. IEEE Transactions on Industrial Electronics, 2017, 64, 5640-5647.                                | 5.2 | 42        |
| 132 | Sensor-based path planning for nonholonomic mobile robots subject to dynamic constraints. Robotics and Autonomous Systems, 2007, 55, 513-526.   | 3.0 | 40        |
| 133 | Modeling and Control of a Nonuniform Vibrating String Under Spatiotemporally Varying Tension and Disturbance. IEEE/ASME Transactions on Mechatronics, 2012, 17, 1196-1203.                                | 3.7 | 40        |
| 134 | Suppression of vibration caused by residual unbalance of rotor for magnetically suspended flywheel. JVC/Journal of Vibration and Control, 2013, 19, 1962-1979.  | 1.5 | 40        |
| 135 | Dynamic Output Feedback Asynchronous Control of Networked Markovian Jump Systems. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2020, 50, 2705-2715.                                       | 5.9 | 40        |
| 136 | Control of Coupled Vessel, Crane, Cable, and Payload Dynamics for Subsea Installation Operations. IEEE Transactions on Control Systems Technology, 2011, 19, 208-220.                                     | 3.2 | 39        |
| 137 | Kinetics and Design of a Mechanically Dithered Ring Laser Gyroscope Position and Orientation System. IEEE Transactions on Instrumentation and Measurement, 2013, 62, 210-220.                             | 2.4 | 39        |
| 138 | Stabilizability of Time-Varying Switched Systems Based on Piecewise Continuous Scalar Functions. IEEE Transactions on Automatic Control, 2019, 64, 2637-2644.   | 3.6 | 39        |
| 139 | Efficient Routing for Precedence-Constrained Package Delivery for Heterogeneous Vehicles. IEEE Transactions on Automation Science and Engineering, 2020, 17, 248-260.                                     | 3.4 | 39        |
| 140 | Multirobot Formations Based on the Queue-Formation Scheme With Limited Communication. , 2007, 23, 1160-1169.  |     | 38        |
| 141 | Temporal Convolutional Memory Networks for Remaining Useful Life Estimation of Industrial Machinery. , 2019, , .  |     | 37        |
| 142 | Force tracking control for motion synchronization in human-robot collaboration. Robotica, 2016, 34, 1260-1281.  | 1.3 | 36        |
| 143 | Adaptive Neural Network Control of Hard Disk Drives With Hysteresis Friction Nonlinearity. IEEE Transactions on Control Systems Technology, 2011, 19, 351-358.  | 3.2 | 35        |
| 144 | Optimal Critic Learning for Robot Control in Time-Varying Environments. IEEE Transactions on Neural Networks and Learning Systems, 2015, 26, 2301-2310.   | 7.2 | 35        |

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|-----|---|-----|-----------|
| 145 | Dynamic modelling and adaptive robust tracking control of a space robot with two-link flexible manipulators under unknown disturbances. <i>International Journal of Control</i> , 2018, 91, 969-988.        | 1.2 | 35        |
| 146 | Finite-Time Adaptive Output Feedback Control for MIMO Nonlinear Systems With Actuator Faults and Saturations. <i>IEEE Transactions on Fuzzy Systems</i> , 2021, 29, 2256-2270.                              | 6.5 | 35        |
| 147 | Dynamic Load Positioning for Subsea Installation via Adaptive Neural Control. <i>IEEE Journal of Oceanic Engineering</i> , 2010, 35, 366-375.   | 2.1 | 34        |
| 148 | Design of Chirp Waveforms for Multiple-Access Ultrasonic Indoor Positioning. <i>IEEE Sensors Journal</i> , 2018, 18, 6375-6390.   | 2.4 | 34        |
| 149 | Styled-Velocity Flocking of Autonomous Vehicles: A Systematic Design. <i>IEEE Transactions on Automatic Control</i> , 2015, 60, 2015-2030.  | 3.6 | 33        |
| 150 | Fault Diagnosis in Image-Based Visual Servoing With Eye-in-Hand Configurations Using Kalman Filter. <i>IEEE Transactions on Industrial Informatics</i> , 2016, 12, 1998-2007.                               | 7.2 | 33        |
| 151 | Adaptive Fuzzy Fault Tolerant Control of Uncertain MIMO Nonlinear Systems With Output Constraints and Unknown Control Directions. <i>IEEE Transactions on Fuzzy Systems</i> , 2022, 30, 1224-1238.          | 6.5 | 33        |
| 152 | Boundary output feedback control of a flexible string system with input saturation. <i>Nonlinear Dynamics</i> , 2015, 80, 871-888.  | 2.7 | 32        |
| 153 | Stability analysis of discrete-time switched systems via Multi-step multiple Lyapunov-like functions. <i>Nonlinear Analysis: Hybrid Systems</i> , 2018, 27, 44-61.  | 2.1 | 32        |
| 154 | Neural-Network-Based Switching Formation Tracking Control of Multiagents With Uncertainties in Constrained Space. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , 2019, 49, 1006-1015. | 5.9 | 32        |
| 155 | Dezert-Smarandache Theory-Based Fusion for Human Activity Recognition in Body Sensor Networks. <i>IEEE Transactions on Industrial Informatics</i> , 2020, 16, 7138-7149.                                    | 7.2 | 32        |
| 156 | Formation Potential Field for Trajectory Tracking Control of Multi-Agents in Constrained Space. <i>International Journal of Control</i> , 2017, 90, 2137-2151.  | 1.2 | 31        |
| 157 | Simultaneous Path Planning and Topological Mapping (SP2ATM) for environment exploration and goal oriented navigation. <i>Robotics and Autonomous Systems</i> , 2011, 59, 228-242.                           | 3.0 | 30        |
| 158 | Adaptive robust controls of biped robots. <i>IET Control Theory and Applications</i> , 2013, 7, 161-175.  | 1.2 | 30        |
| 159 | Coverage planning in computer-assisted ablation based on Genetic Algorithm. <i>Computers in Biology and Medicine</i> , 2014, 49, 36-45.   | 3.9 | 30        |
| 160 | Distributed coordinated tracking control of multiple Euler-Lagrange systems by state and output feedback. <i>IET Control Theory and Applications</i> , 2017, 11, 2213-2221.                                 | 1.2 | 30        |
| 161 | Role playing learning for socially concomitant mobile robot navigation. <i>CAAI Transactions on Intelligence Technology</i> , 2018, 3, 49-58.   | 3.4 | 30        |
| 162 | Dynamic modeling for shear stress induced ATP release from vascular endothelial cells. <i>Biomechanics and Modeling in Mechanobiology</i> , 2008, 7, 345-353.   | 1.4 | 29        |

| #   | ARTICLE  | IF  | CITATIONS |
|-----|--|-----|-----------|
| 163 | Control of nonlinear systems with time-varying output constraints. , 2009, , .   |     | 29        |
| 164 | Cooperative Circumnavigation Control of Networked Microsatellites. IEEE Transactions on Cybernetics, 2020, 50, 4550-4555.  | 6.2 | 29        |
| 165 | $\mathcal{K}$ -NS: A Classifier by the Distance to the Nearest Subspace. IEEE Transactions on Neural Networks, 2011, 22, 1256-1268.  | 4.8 | 28        |
| 166 | Prosthetic finger phalanges with lifelike skin compliance for low-force social touching interactions. Journal of NeuroEngineering and Rehabilitation, 2011, 8, 16.   | 2.4 | 28        |
| 167 | Kinematic Analysis and Motion Control of Wheeled Mobile Robots in Cylindrical Workspaces. IEEE Transactions on Automation Science and Engineering, 2016, 13, 1207-1214.                                      | 3.4 | 28        |
| 168 | Impulsive stabilization of fractional differential systems. ISA Transactions, 2017, 70, 125-131.   | 3.1 | 28        |
| 169 | Boundedness and stability analysis for impulsive stochastic differential equations driven by $\langle i \rangle G \langle /i \rangle$ -Brownian motion. International Journal of Control, 2019, 92, 642-652. | 1.2 | 28        |
| 170 | Hierarchical Incremental Path Planning and Situation-Dependent Optimized Dynamic Motion Planning Considering Accelerations. IEEE Transactions on Systems, Man, and Cybernetics, 2007, 37, 1541-1554.         | 5.5 | 27        |
| 171 | Multiple Access Chirp-Based Ultrasonic Positioning. IEEE Transactions on Instrumentation and Measurement, 2017, 66, 3126-3137.   | 2.4 | 27        |
| 172 | Evidential Reasoning With Hesitant Fuzzy Belief Structures for Human Activity Recognition. IEEE Transactions on Fuzzy Systems, 2021, 29, 3607-3619.  | 6.5 | 27        |
| 173 | Fault Estimation and Accommodation For Virtual Sensor Bias Fault in Image-Based Visual Servoing Using Particle Filter. IEEE Transactions on Industrial Informatics, 2018, 14, 1312-1322.                     | 7.2 | 26        |
| 174 | Layered Affine Formation Control of Networked Uncertain Systems: A Fully Distributed Approach Over Directed Graphs. IEEE Transactions on Cybernetics, 2021, 51, 6119-6130.                                   | 6.2 | 26        |
| 175 | Neural networks impedance control of robots interacting with environments. IET Control Theory and Applications, 2013, 7, 1509-1519.  | 1.2 | 25        |
| 176 | Adaptive Control of Uncertain Nonlinear Time-Delay Systems With External Disturbance. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2022, 52, 1288-1295.                                      | 5.9 | 25        |
| 177 | Modeling, Control and Coordination of Helicopter Systems. , 2012, , .  |     | 25        |
| 178 | Singular Perturbation Control for Vibration Rejection in HDDs Using the PZT Active Suspension as Fast Subsystem Observer. IEEE Industrial Electronics Magazine, 2007, 54, 1375-1386.                         | 2.3 | 24        |
| 179 | Facial expression recognition and tracking for intelligent human-robot interaction. Intelligent Service Robotics, 2008, 1, 143-157.  | 1.6 | 24        |
| 180 | Non-smooth Lyapunov function-based global stabilization for quantum filters. Automatica, 2012, 48, 1031-1044.  | 3.0 | 24        |

| #   | ARTICLE  | IF  | CITATIONS |
|-----|--|-----|-----------|
| 181 | Speaker state classification based on fusion of asymmetric simple partial least squares (SIMPLS) and support vector machines. <i>Computer Speech and Language</i> , 2014, 28, 392-419. | 2.9 | 24        |
| 182 | Modeling and Control of a Tilting Quadcopter. <i>IEEE Transactions on Aerospace and Electronic Systems</i> , 2020, 56, 2823-2834.  | 2.6 | 24        |
| 183 | A general recurrent neural network model for time-varying matrix inversion. , 0, , .   |     | 23        |
| 184 | Adaptive boundary control for a class of inhomogeneous Timoshenko beam equations with constraints. <i>IET Control Theory and Applications</i> , 2014, 8, 1285-1292.                    | 1.2 | 23        |
| 185 | Bioinspired neurodynamics based formation control for unmanned surface vehicles with line-of-sight range and angle constraints. <i>Neurocomputing</i> , 2021, 425, 127-134.            | 3.5 | 23        |
| 186 | Real-time deterministic generation of maximally entangled two-qubit and three-qubit states via bang-bang control. <i>Physical Review A</i> , 2012, 85, .                               | 1.0 | 22        |
| 187 | Adaptive neural dynamic surface control of output constrained nonlinear systems with unknown control direction. <i>IET Control Theory and Applications</i> , 2017, 11, 2994-3003.      | 1.2 | 22        |
| 188 | Controlling the Diffusive Motion of Fullerene-Wheeled Nanocars Utilizing a Hybrid Substrate. <i>Journal of Physical Chemistry C</i> , 2019, 123, 26018-26030.                          | 1.5 | 22        |
| 189 | Saturation-Tolerant Prescribed Control for a Class of MIMO Nonlinear Systems. <i>IEEE Transactions on Cybernetics</i> , 2022, 52, 13012-13026.   | 6.2 | 22        |
| 190 | Stability of Traveling Waves Solutions for Nonlinear Cellular Neural Networks with Distributed Delays. <i>Journal of Systems Science and Complexity</i> , 2022, 35, 18-31.             | 1.6 | 22        |
| 191 | Augmented Hamiltonian Formulation and Energy-Based Control Design of Uncertain Mechanical Systems. <i>IEEE Transactions on Control Systems Technology</i> , 2008, 16, 202-213.         | 3.2 | 21        |
| 192 | Aircraft-on-ground path following control by dynamical adaptive backstepping. <i>Chinese Journal of Aeronautics</i> , 2013, 26, 668-675.   | 2.8 | 21        |
| 193 | Adaptive control for an uncertain robotic manipulator with input saturations. <i>Control Theory and Technology</i> , 2016, 14, 113-121.  | 1.0 | 21        |
| 194 | Reference Adaptation for Robots in Physical Interactions With Unknown Environments. <i>IEEE Transactions on Cybernetics</i> , 2017, 47, 3504-3515.                                     | 6.2 | 21        |
| 195 | Dwell time based stabilisability criteria for discrete-time switched systems. <i>International Journal of Systems Science</i> , 2017, 48, 3087-3097.                                   | 3.7 | 21        |
| 196 | Optimized Impedance Adaptation of Robot Manipulator Interacting With Unknown Environment. <i>IEEE Transactions on Control Systems Technology</i> , 2021, 29, 411-419.                  | 3.2 | 21        |
| 197 | Trajectory Generation by Chance-Constrained Nonlinear MPC With Probabilistic Prediction. <i>IEEE Transactions on Cybernetics</i> , 2021, 51, 3616-3629.                                | 6.2 | 21        |
| 198 | IMMPDAF Approach for Road-Boundary Tracking. <i>IEEE Transactions on Vehicular Technology</i> , 2007, 56, 478-486.   | 3.9 | 20        |

| #   | ARTICLE  | IF  | CITATIONS |
|-----|--|-----|-----------|
| 199 | Robust adaptive output feedback control of a class of discrete-time nonlinear systems with nonlinear uncertainties and unknown control directions. <i>International Journal of Robust and Nonlinear Control</i> , 2013, 23, 1472-1495. | 2.1 | 20        |
| 200 | G-Image Segmentation: Similarity-Preserving Fuzzy $C$ -Means With Spatial Information Constraint in Wavelet Space. <i>IEEE Transactions on Fuzzy Systems</i> , 2021, 29, 3887-3898.  | 6.5 | 20        |
| 201 | Semiglobal ISpS Disturbance Attenuation With Output Tracking via Direct Adaptive Design. <i>IEEE Transactions on Neural Networks</i> , 2007, 18, 1129-1148.  | 4.8 | 19        |
| 202 | Global Stabilization of the Generalized MIMO Triangular Systems With Singular Input-Output Links. <i>IEEE Transactions on Automatic Control</i> , 2009, 54, 1794-1806.   | 3.6 | 19        |
| 203 | Pointing Gestures for a Robot Mediated Communication Interface. <i>Lecture Notes in Computer Science</i> , 2009, , 67-77.  | 1.0 | 19        |
| 204 | Modeling and Vibration Control of a Coupled Vessel-Mooring-Riser System. <i>IEEE/ASME Transactions on Mechatronics</i> , 2015, 20, 2832-2840.  | 3.7 | 19        |
| 205 | Road Constrained Monocular Visual Localization Using Gaussian-Gaussian Cloud Model. <i>IEEE Transactions on Intelligent Transportation Systems</i> , 2017, 18, 3449-3456.  | 4.7 | 19        |
| 206 | Adaptive dynamic positioning control for accommodation vessels with multiple constraints. <i>IET Control Theory and Applications</i> , 2017, 11, 329-340.  | 1.2 | 19        |
| 207 | Distributed Task Assignment for Multiple Robots Under Limited Communication Range. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , 2022, 52, 4259-4271.   | 5.9 | 19        |
| 208 | Time-Synchronized Tracking Control for 6-DOF Spacecraft in Rendezvous and Docking. <i>IEEE Transactions on Aerospace and Electronic Systems</i> , 2022, 58, 1676-1691.   | 2.6 | 19        |
| 209 | Tracking and Vibration Control of Flexible Robots Using Shape Memory Alloys. <i>IEEE/ASME Transactions on Mechatronics</i> , 2006, 11, 690-698.  | 3.7 | 18        |
| 210 | Variable Structure and Sliding Mode Control Focus [Technical Committee Activities]. <i>IEEE Control Systems</i> , 2010, 30, 22-87.   | 1.0 | 18        |
| 211 | Robust line detection using two-orthogonal direction image scanning. <i>Computer Vision and Image Understanding</i> , 2011, 115, 1207-1222.  | 3.0 | 18        |
| 212 | Quantum Measurement-Based Feedback Control: A Nonsmooth Time Delay Control Approach. <i>SIAM Journal on Control and Optimization</i> , 2012, 50, 845-863.  | 1.1 | 18        |
| 213 | Adaptive neural region tracking control of multi-fully actuated ocean surface vessels. <i>IEEE/CAA Journal of Automatica Sinica</i> , 2014, 1, 77-83.  | 8.5 | 18        |
| 214 | SharpGAN: Dynamic Scene Deblurring Method for Smart Ship Based on Receptive Field Block and Generative Adversarial Networks. <i>Sensors</i> , 2021, 21, 3641.  | 2.1 | 18        |
| 215 | Non-weighted filtering for positive switched delay systems. <i>IET Control Theory and Applications</i> , 2018, 12, 1046-1054.  | 1.2 | 17        |
| 216 | Adaptive Neural Network Control of Helicopters with Unknown Dynamics. , 2006, , .  |     | 16        |

| #   | ARTICLE  | IF  | CITATIONS |
|-----|--|-----|-----------|
| 217 | A saliency-driven robotic head with bio-inspired saccadic behaviors for social robotics. <i>Autonomous Robots</i> , 2014, 36, 225-240.   | 3.2 | 16        |
| 218 | Computational intelligence in control. <i>Annual Reviews in Control</i> , 2014, 38, 233-242.   | 4.4 | 16        |
| 219 | Dynamics and Noncollocated Model-Free Position Control for a Space Robot with Multi-Link Flexible Manipulators. <i>Asian Journal of Control</i> , 2019, 21, 714-724.   | 1.9 | 16        |
| 220 | Discrete linear control enhanced by adaptive neural networks in application to a HDD-servo-system. <i>Control Engineering Practice</i> , 2008, 16, 930-945.  | 3.2 | 15        |
| 221 | Decentralized adaptive control of a class of discrete-time multi-agent systems for hidden leader following problem. , 2009, , .  |     | 15        |
| 222 | Adaptive Neural Network Control of Small Unmanned Aerial Rotorcraft. <i>Journal of Intelligent and Robotic Systems: Theory and Applications</i> , 2014, 75, 331-341.   | 2.0 | 15        |
| 223 | An Online Trajectory Planning Method of a Flexible-Link Manipulator Aiming at Vibration Suppression. <i>IEEE Access</i> , 2020, 8, 130616-130632.  | 2.6 | 15        |
| 224 | Adaptive Tracking for Uncertain MIMO Nonlinear Systems With Time-Varying Parameters and Bounded Disturbance. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , 2021, 51, 4479-4491.                   | 5.9 | 15        |
| 225 | Towards Humanlike Social Touch for Prosthetics and Sociable Robotics: Handshake Experiments and Finger Phalange Indentations. <i>Lecture Notes in Computer Science</i> , 2009, , 73-79.                                  | 1.0 | 15        |
| 226 | Complete Multi-Robot Coverage of Unknown Environments with Minimum Repeated Coverage. , 0, , .   |     | 14        |
| 227 | Neural Networks in Feedback Control Systems. , 2006, , 791-825.  |     | 14        |
| 228 | Leader-follower formation control of underactuated AUVs with leader position measurement. , 2009, , .  |     | 14        |
| 229 | Drift analysis of mutation operations for biogeography-based optimization. <i>Soft Computing</i> , 2015, 19, 1881-1892.  | 2.1 | 14        |
| 230 | Maximum entropy searching. <i>CAAI Transactions on Intelligence Technology</i> , 2019, 4, 1-8.   | 3.4 | 14        |
| 231 | Optimized Interaction Control for Robot Manipulator Interacting With Flexible Environment. <i>IEEE/ASME Transactions on Mechatronics</i> , 2021, 26, 2888-2898.  | 3.7 | 14        |
| 232 | Adaptive Feedforward Neural Network Control With an Optimized Hidden Node Distribution. <i>IEEE Transactions on Artificial Intelligence</i> , 2021, 2, 71-82.  | 3.4 | 14        |
| 233 | The Automaticity of Social Behavior towards Robots: The Influence of Cognitive Load on Interpersonal Distance to Approachable versus Less Approachable Robots. <i>Lecture Notes in Computer Science</i> , 2012, , 15-25. | 1.0 | 14        |
| 234 | Direct Adaptive NN Control of Nonlinear Systems in Strict-Feedback Form Using Dynamic Surface Control. , 2007, , .   |     | 13        |

| #   | ARTICLE  | IF  | CITATIONS |
|-----|--|-----|-----------|
| 235 | Adaptive neural control for uncertain nonlinear systems in pure-feedback form with hysteresis input. , 2008, , .   |     | 13        |
| 236 | Mutual-reinforcement document summarization using embedded graph based sentence clustering for storytelling. Information Processing and Management, 2012, 48, 767-778.                                       | 5.4 | 13        |
| 237 | Exponential ultimate boundedness of nonlinear stochastic difference systems with time-varying delays. International Journal of Control, 0, , 1-7.  | 1.2 | 13        |
| 238 | 3D pointing gesture recognition for human-robot interaction. , 2016, , .   |     | 13        |
| 239 | Geometric Map-Assisted Localization for Mobile Robots Based on Uniform-Gaussian Distribution. IEEE Robotics and Automation Letters, 2017, 2, 789-795.  | 3.3 | 13        |
| 240 | Anti-disturbance control for attitude and altitude systems of the helicopter under random disturbances. Aerospace Science and Technology, 2020, 96, 105561.  | 2.5 | 13        |
| 241 | Performance-Guaranteed Fault-Tolerant Control for Uncertain Nonlinear Systems via Learning-Based Switching Scheme. IEEE Transactions on Neural Networks and Learning Systems, 2021, 32, 4138-4150.           | 7.2 | 13        |
| 242 | Influence of Vacancies and Grain Boundaries on the Diffusive Motion of Surface Rolling Molecules. Journal of Physical Chemistry C, 2020, 124, 16629-16643.   | 1.5 | 13        |
| 243 | Synthetic Skins with Humanlike Warmth. Lecture Notes in Computer Science, 2010, , 362-371.   | 1.0 | 13        |
| 244 | Detection of seizures in EEG signal using weighted locally linear embedding and SVM classifier. , 2008, , .  |     | 12        |
| 245 | Adaptive control for parametric output feedback systems with output constraint. , 2009, , .  |     | 12        |
| 246 | Analysis of Different Sparsity Methods in Constrained RBM for Sparse Representation in Cognitive Robotic Perception. Journal of Intelligent and Robotic Systems: Theory and Applications, 2015, 80, 121-132. | 2.0 | 12        |
| 247 | Reduced-Order Filters-Based Adaptive Backstepping Control for Perturbed Nonlinear Systems. IEEE Transactions on Cybernetics, 2022, 52, 8388-8398.  | 6.2 | 12        |
| 248 | Robust optimal control of connected and automated vehicle platoons through improved particle swarm optimization. Transportation Research Part C: Emerging Technologies, 2022, 135, 103488.                   | 3.9 | 12        |
| 249 | Dynamic control for LNG carrier with output constraints. IET Control Theory and Applications, 2022, 16, 729-740.   | 1.2 | 12        |
| 250 | Time-Synchronized Control of Chaotic Systems in Secure Communication. IEEE Transactions on Circuits and Systems I: Regular Papers, 2022, 69, 3748-3761.  | 3.5 | 12        |
| 251 | Robust Adaptive Control of Cooperating Mobile Manipulators with Relative Motion. , 2007, , .   |     | 11        |
| 252 | Impedance Control of a Rehabilitation Robot for Interactive Training. Lecture Notes in Computer Science, 2012, , 526-535.  | 1.0 | 11        |

| #   | ARTICLE  | IF  | CITATIONS |
|-----|--|-----|-----------|
| 253 | Localization of Drag Anchor in Mooring Systems Via Magnetic Induction and Acoustic Wireless Communication Network. IEEE Journal of Oceanic Engineering, 2014, 39, 515-525. | 2.1 | 11        |
| 254 | Region tracking control for high-order multi-agent systems in restricted space. IET Control Theory and Applications, 2016, 10, 396-406.                                    | 1.2 | 11        |
| 255 | Orthogonal Chirp-Based Ultrasonic Positioning. Sensors, 2017, 17, 976.   | 2.1 | 11        |
| 256 | Directional control of surface rolling molecules exploiting non-uniform heat-induced substrates. Physical Chemistry Chemical Physics, 2020, 22, 26887-26900.               | 1.3 | 11        |
| 257 | Robust adaptive neural control of SISO nonlinear systems with unknown dead-zone and completely unknown control gain. , 2006, , .   |     | 10        |
| 258 | Hard Disk Drives Control in Mobile Applications. Journal of Systems Science and Complexity, 2007, 20, 215-224.   | 1.6 | 10        |
| 259 | Feedforward Control Based on Neural Networks for Hard Disk Drives. IEEE Transactions on Magnetics, 2009, 45, 3025-3030.  | 1.2 | 10        |
| 260 | Autonomous stair climbing for mobile tracked robot. , 2011, , .  |     | 10        |
| 261 | Non-metric navigation for mobile robot using optical flow. , 2012, , .   |     | 10        |
| 262 | Geometrically local embedding in manifolds for dimension reduction. Pattern Recognition, 2012, 45, 1455-1470.  | 5.1 | 10        |
| 263 | Adaptive control for robot navigation in human environments based on social force model. , 2016, , .   |     | 10        |
| 264 | Pseudo-Orthogonal Chirp-Based Multiple Ultrasonic Transducer Positioning. IEEE Sensors Journal, 2017, 17, 3832-3843.   | 2.4 | 10        |
| 265 | Celestial navigation in deep space exploration using spherical simplex unscented particle filter. IET Signal Processing, 2018, 12, 463-470.                                | 0.9 | 10        |
| 266 | Filter-Based Secure Dynamic Pose Estimation for Autonomous Vehicles. IEEE Sensors Journal, 2019, 19, 6298-6308.  | 2.4 | 10        |
| 267 | Distributed Formation Control of Multiple Euler-Lagrange Systems: A Multilayer Framework. IEEE Transactions on Cybernetics, 2022, 52, 3325-3332.                           | 6.2 | 10        |
| 268 | Efficient Task Assignment for Multiple Vehicles With Partially Unreachable Target Locations. IEEE Internet of Things Journal, 2021, 8, 3730-3742.                          | 5.5 | 10        |
| 269 | Robust Output-feedback Stabilization for a Class of Uncertain Stochastic Nonlinear Systems with Time-varying Time Delays. , 2007, , .                                      |     | 9         |
| 270 | Multi-Robot Formations based on the Queue-Formation Scheme with Limited Communications. Proceedings - IEEE International Conference on Robotics and Automation, 2007, , .  | 0.0 | 9         |



| #   | ARTICLE   | IF  | CITATIONS |
|-----|---|-----|-----------|
| 271 | Adaptive model reference control of a class of MIMO discrete-time systems with compensation of nonparametric uncertainty. , 2008, , .   |     | 9         |
| 272 | Roles of superconducting magnetic bearings and active magnetic bearings in attitude control and energy storage flywheel. Physica C: Superconductivity and Its Applications, 2012, 483, 178-185.   | 0.6 | 9         |
| 273 | Dynamics and tracking control for a free-flying space robot with rigid-flexible links. , 2014, , .  |     | 9         |
| 274 | Shared control of human and robot by approximate dynamic programming. , 2015, , .   |     | 9         |
| 275 | Autonomous celestial navigation for a deep space probe approaching a target planet based on ephemeris correction. Proceedings of the Institution of Mechanical Engineers, Part G: Journal of Aerospace Engineering, 2015, 229, 2681-2699. | 0.7 | 9         |
| 276 | Learning Saliency Features for Face Detection and Recognition Using Multi-task Network. International Journal of Social Robotics, 2016, 8, 709-720.   | 3.1 | 9         |
| 277 | Heading Reference-Assisted Pose Estimation for Ground Vehicles. IEEE Transactions on Automation Science and Engineering, 2019, 16, 448-458.   | 3.4 | 9         |
| 278 | Road-Constrained Geometric Pose Estimation for Ground Vehicles. IEEE Transactions on Automation Science and Engineering, 2020, 17, 748-760.   | 3.4 | 9         |
| 279 | Micro Flapping-Wing Vehicles Formation Control With Attitude Estimation. IEEE Transactions on Cybernetics, 2022, 52, 1035-1047.   | 6.2 | 9         |
| 280 | Inner-Estimating Domains of Attraction for Nonpolynomial Systems With Polynomial Differential Inclusions. IEEE Transactions on Cybernetics, 2022, 52, 1628-1641.  | 6.2 | 9         |
| 281 | Dissipativity-Based Asynchronous Repetitive Control for Networked Markovian Jump Systems: 2-D System Approach. IEEE Transactions on Control of Network Systems, 2020, 7, 1212-1224.   | 2.4 | 9         |
| 282 | Analysis and Verification of Input-to-State Stability for Nonautonomous Discrete-Time Switched Systems via Semidefinite Programming. IEEE Transactions on Automatic Control, 2021, 66, 4452-4459.   | 3.6 | 9         |
| 283 | Finite-horizon robust formation-containment control of multi-agent networks with unknown dynamics. Neurocomputing, 2021, 458, 403-415.  | 3.5 | 9         |
| 284 | Formationâ€containment control of networked collisionâ€free Lagrangian systems. International Journal of Robust and Nonlinear Control, 2020, 30, 2399-2412.   | 2.1 | 9         |
| 285 | Building Companionship through Human-Robot Collaboration. Lecture Notes in Computer Science, 2013, , 1-7.   | 1.0 | 9         |
| 286 | Output-Based Event-Triggered Cooperative Robust Regulation for Constrained Heterogeneous Multiagent Systems. IEEE Transactions on Cybernetics, 2022, 52, 6295-6306.   | 6.2 | 9         |
| 287 | Global finiteâ€time cooperative control for multiple manipulators using integral sliding mode control. Asian Journal of Control, 2022, 24, 2862-2876.   | 1.9 | 9         |
| 288 | Adaptive control for a discrete-time first-order nonlinear system with both parametric and non-parametric uncertainties. , 2007, , .  |     | 8         |

| #   | ARTICLE  | IF  | CITATIONS |
|-----|--|-----|-----------|
| 289 | A switched system approach to scheduling of networked control systems with communication constraints. , 2009, , .  |     | 8         |
| 290 | Integrated Resource Allocation and Scheduling in a Bidirectional Flowshop With Multimachine and COS Constraints. IEEE Transactions on Systems, Man and Cybernetics, Part C: Applications and Reviews, 2009, 39, 190-200. | 3.3 | 8         |
| 291 | Adaptive NN tracking control of overactuated ocean surface vessels. , 2010, , .  |     | 8         |
| 292 | Allocating Resources in Multiagent Flowshops With Adaptive Auctions. IEEE Transactions on Automation Science and Engineering, 2011, 8, 732-743.  | 3.4 | 8         |
| 293 | Continuous critic learning for robot control in physical human-robot interaction. , 2013, , .  |     | 8         |
| 294 | Bottom-up saliency detection for attention determination. Machine Vision and Applications, 2013, 24, 103-116.  | 1.7 | 8         |
| 295 | General fight rule-based trajectory planning for pairwise collision avoidance in a known environment. International Journal of Control, Automation and Systems, 2014, 12, 813-822.                                       | 1.6 | 8         |
| 296 | Robust Visual Tracking via Collaborative Motion and Appearance Model. IEEE Transactions on Industrial Informatics, 2017, 13, 2251-2259.  | 7.2 | 8         |
| 297 | Estimating Minimal Domains of Attraction for Uncertain Nonlinear Systems. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2021, 51, 7776-7787.  | 5.9 | 8         |
| 298 | Continuous predictive control based on dynamic surface design with application to trajectory tracking. Applied Ocean Research, 2021, 111, 102615.  | 1.8 | 8         |
| 299 | Human-Robot Handshaking: A Hybrid Deliberate/Reactive Model. Lecture Notes in Computer Science, 2012, , 258-267.   | 1.0 | 8         |
| 300 | Velocity Free Platoon Formation Control for Unmanned Surface Vehicles with Output Constraints and Model Uncertainties. Applied Sciences (Switzerland), 2020, 10, 1118.   | 1.3 | 8         |
| 301 | Stable Adaptive Neural Network Control of Nonaffine Nonlinear Discrete-Time Systems and Application. , 2007, , .   |     | 7         |
| 302 | Detection of Epileptic Spike-Wave Discharges Using SVM. Control Applications (CCA), Proceedings of the IEEE International Conference on, 2007, , .   | 0.0 | 7         |
| 303 | Neighborhood linear embedding for intrinsic structure discovery. Machine Vision and Applications, 2010, 21, 391-401.   | 1.7 | 7         |
| 304 | Visual Attention Prediction Using Saliency Determination of Scene Understanding for Social Robots. International Journal of Social Robotics, 2011, 3, 457-468.   | 3.1 | 7         |
| 305 | Stabilisation of switched linear stochastic systems under dwell time constraints. International Journal of Control, 2012, 85, 1209-1217.   | 1.2 | 7         |
| 306 | Modeling and simulation of magnetic induction wireless communication for a deepwater mooring system. , 2012, , .   |     | 7         |

| #   | ARTICLE  | IF  | CITATIONS |
|-----|--|-----|-----------|
| 307 | Intersection detection and recognition for autonomous urban driving using a virtual cylindrical scanner. IET Intelligent Transport Systems, 2014, 8, 244-254.  | 1.7 | 7         |
| 308 | Exponential ultimate boundedness of impulsive stochastic delay difference systems. International Journal of Robust and Nonlinear Control, 2018, 28, 781-797.   | 2.1 | 7         |
| 309 | Efficient Heuristic Algorithms for Single-Vehicle Task Planning With Precedence Constraints. IEEE Transactions on Cybernetics, 2021, 51, 6274-6283.  | 6.2 | 7         |
| 310 | Prescribed-time control with explicit reference governor for a class of constrained cascaded systems. International Journal of Robust and Nonlinear Control, 2021, 31, 6422-6437.  | 2.1 | 7         |
| 311 | Person image generation with attention-based injection network. Neurocomputing, 2021, 460, 345-359.  | 3.5 | 7         |
| 312 | Stereo-based human detection for mobile service robots. , 0, , .   |     | 6         |
| 313 | Energy-based Robust controller design for flexible spacecraft. Journal of Control Theory and Applications, 2004, 2, 27-34.   | 0.8 | 6         |
| 314 | Adaptive Variable Structure Control of SISO Nonlinear Systems with Time-Varying Delays and Unknown Dead-zone Input. Proceedings of the American Control Conference, 2007, , .  | 0.0 | 6         |
| 315 | Adaptive asymptotic tracking control of a class of discrete-time nonlinear systems with parametric and nonparametric uncertainties. , 2009, , .  |     | 6         |
| 316 | Output-feedback adaptive control of electrostatic microactuators. , 2009, , .  |     | 6         |
| 317 | A topological approach of path planning for autonomous robot navigation in dynamic environments. , 2009, , .   |     | 6         |
| 318 | Real-time face detection for human robot interaction. , 2009, , .  |     | 6         |
| 319 | Boundary control of a vibrating string under unknown time-varying disturbance. , 2010, , .   |     | 6         |
| 320 | Neural-network-based human intention estimation for physical human-robot interaction. , 2011, , .  |     | 6         |
| 321 | Time-â€‘Space Decomposition-Based Generalized Predictive Control of a Transport-Reaction Process. Industrial & Engineering Chemistry Research, 2011, 50, 11628-11635.  | 1.8 | 6         |
| 322 | Region tracking control for multi-agent systems with high-order dynamics. , 2013, , .  |     | 6         |
| 323 | Semi-physical experimental study of adaptive disturbance rejection filter approach for vibration control of a flexible spacecraft. Proceedings of the Institution of Mechanical Engineers, Part G: Journal of Aerospace Engineering, 2015, 229, 2085-2094. | 0.7 | 6         |
| 324 | Parameterized Distortion-Invariant Feature for Robust Tracking in Omnidirectional Vision. IEEE Transactions on Automation Science and Engineering, 2016, 13, 743-756.  | 3.4 | 6         |

| #   | ARTICLE   | IF  | CITATIONS |
|-----|---|-----|-----------|
| 325 | Cooperative localization based on robust GPS and Radar fusion for multiple aerial vehicles. International Journal of Control, Automation and Systems, 2017, 15, 732-742.                            | 1.6 | 6         |
| 326 | Data-Defect Inspection With Kernel-Neighbor-Density-Change Outlier Factor. IEEE Transactions on Automation Science and Engineering, 2018, 15, 225-238.  | 3.4 | 6         |
| 327 | GPS/odometry/map fusion for vehicle positioning using potential function. Autonomous Robots, 2018, 42, 99-110.  | 3.2 | 6         |
| 328 | Secure Estimation for Attitude and Heading Reference Systems Under Sparse Attacks. IEEE Sensors Journal, 2019, 19, 641-649.   | 2.4 | 6         |
| 329 | Layered Formation-containment Control of Multi-agent Systems in Constrained Space. International Journal of Control, Automation and Systems, 2020, 18, 768-779.                                     | 1.6 | 6         |
| 330 | Low-Shot Wall Defect Detection for Autonomous Decoration Robots Using Deep Reinforcement Learning. Journal of Robotics, 2020, 2020, 1-7.  | 0.6 | 6         |
| 331 | A Dynamic Behavior Control Framework for Physical Human-Robot Interaction. Journal of Intelligent and Robotic Systems: Theory and Applications, 2021, 101, 1.                                       | 2.0 | 6         |
| 332 | Operational control based on environmental detector for floating LNG connection system during side-by-side offloading operation. Nonlinear Dynamics, 2021, 106, 2293-2307.                          | 2.7 | 6         |
| 333 | Towards Humanlike Social Touch for Prosthetics and Sociable Robotics: Three-Dimensional Finite Element Simulations of Synthetic Finger Phalanges. Lecture Notes in Computer Science, 2009, , 80-86. | 1.0 | 6         |
| 334 | Distributed Active Fault-Tolerant Cooperative Control for Multiagent Systems With Communication Delays and External Disturbances. IEEE Transactions on Cybernetics, 2023, 53, 4642-4652.            | 6.2 | 6         |
| 335 | Neural network control for non-affine nonlinear systems. , 2007, , .  |     | 5         |
| 336 | Active affective facial analysis for human-robot interaction. , 2008, , .   |     | 5         |
| 337 | Adaptive control of a class of strict-feedback discrete-time nonlinear systems with unknown control gains and preceded by hysteresis. , 2009, , .   |     | 5         |
| 338 | Agent formations in 3D spaces with communication limitations using an adaptive Q-structure. Robotics and Autonomous Systems, 2010, 58, 333-348.   | 3.0 | 5         |
| 339 | Force and motion analyses of the human patting gesture for robotic social touching. , 2011, , .   |     | 5         |
| 340 | Adaptive NN control for uncertain pure-feedback nonlinear systems with state constraints subject to unknown disturbances. , 2015, , .   |     | 5         |
| 341 | Adaptive control of redundant robot manipulators with null-space compliance. Assembly Automation, 2018, 38, 615-624.  | 1.0 | 5         |
| 342 | Adaptive Learning Based Tracking Control of Marine Vessels with Prescribed Performance. Mathematical Problems in Engineering, 2018, 2018, 1-9.  | 0.6 | 5         |

| #   | ARTICLE  | IF  | CITATIONS |
|-----|--|-----|-----------|
| 343 | Cooperative Circumnavigation of a Host Spacecraft by Multiple Microsatellites. , 2019, , .   |     | 5         |
| 344 | Object Activity Scene Description, Construction, and Recognition. IEEE Transactions on Cybernetics, 2021, 51, 5082-5092.   | 6.2 | 5         |
| 345 | Almost surely attractive sets of discrete-time Markov jump systems with stochastic disturbances via impulsive control. IET Control Theory and Applications, 2019, 13, 78-86.                           | 1.2 | 5         |
| 346 | Asynchronous repetitive control of switched systems via periodic event-based dynamic output feedback. IMA Journal of Mathematical Control and Information, 2020, 37, 644-673.                          | 1.1 | 5         |
| 347 | Simultaneous Excitation Systems for Ultrasonic Indoor Positioning. IEEE Sensors Journal, 2020, 20, 13716-13725.  | 2.4 | 5         |
| 348 | Adaptive neural control for a tilting quadcopter with finite-time convergence. Neural Computing and Applications, 2021, 33, 15987-16004.   | 3.2 | 5         |
| 349 | A DSC approach to adaptive dynamic region-based tracking control for strict-feedback nonlinear systems. IET Control Theory and Applications, 2022, 16, 94-111.   | 1.2 | 5         |
| 350 | Anomaly Resilient Relative Pose Estimation for Multiple Nonholonomic Mobile Robot Systems. IEEE Systems Journal, 2022, 16, 659-670.  | 2.9 | 5         |
| 351 | Space-and-time-synchronized simultaneous fully-actuated vehicle tracking/formation using cascaded prescribed-time control. International Journal of Robust and Nonlinear Control, 2022, 32, 2380-2398. | 2.1 | 5         |
| 352 | Multisource Weighted Domain Adaptation With Evidential Reasoning for Activity Recognition. IEEE Transactions on Industrial Informatics, 2023, 19, 5530-5542.   | 7.2 | 5         |
| 353 | Dynamic Gain Reduced-Order Observer-Based Global Adaptive Neural-Network Tracking Control for Nonlinear Time-Delay Systems. IEEE Transactions on Cybernetics, 2023, 53, 7105-7114.                     | 6.2 | 5         |
| 354 | Distributed optimized dynamic event-triggered control for unknown heterogeneous nonlinear MASs with input-constrained. Neural Networks, 2022, 154, 1-12.   | 3.3 | 5         |
| 355 | Adaptive neural network control of nonlinear MIMO time-delay systems with unknown bounds on delay functionals. , 0, , .  |     | 4         |
| 356 | Online map building for autonomous mobile robots by fusing laser and sonar data. , 0, , .  |     | 4         |
| 357 | Robust Adaptive Control of Coordinated Multiple Mobile Manipulators. Control Applications (CCA), Proceedings of the IEEE International Conference on, 2007, , .  | 0.0 | 4         |
| 358 | Robust stability of discrete-time switched delay systems and its application to network-based reliable control. , 2009, , .  |     | 4         |
| 359 | Synchronized tracking control of multi-agent system with limited information. , 2010, , .  |     | 4         |
| 360 | Boundary control of a flexible marine riser with vessel dynamics. , 2010, , .  |     | 4         |

| #   | ARTICLE   | IF  | CITATIONS |
|-----|---|-----|-----------|
| 361 | Linear, adaptive and nonlinear trading models for Singapore stock market with random forests. , 2011, , .   |     | 4         |
| 362 | Vibration control of a coupled nonlinear string system in transverse and longitudinal directions. , 2011, , .   |     | 4         |
| 363 | Cooperative control design for circular flocking of underactuated hovercrafts. , 2011, , .  |     | 4         |
| 364 | Adaptive control for a cable driven robot arm. , 2012, , .  |     | 4         |
| 365 | Online brain imaging by QR factorization of normalized regressor functions. , 2012, , .   |     | 4         |
| 366 | Adaptive control for robot manipulators under ellipsoidal task space constraints. , 2012, , .   |     | 4         |
| 367 | Backstepping control and active vibration control for a free-flying space robot with rigid-flexible links by singular perturbation approach. , 2014, , .  |     | 4         |
| 368 | Adaptive control for a robotic manipulator with uncertainties and input saturations. , 2015, , .  |     | 4         |
| 369 | Intelligent speech control system for human-robot interaction. , 2016, , .  |     | 4         |
| 370 | Low-Cost Pyrometry System With Nonlinear Multisense Partial Least Squares. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2018, 48, 1029-1038.  | 5.9 | 4         |
| 371 | A Novel Multi-Criteria Discounting Combination Approach for Multi-Sensor Fusion. IEEE Sensors Journal, 2019, 19, 9411-9421.   | 2.4 | 4         |
| 372 | Design proportionalâ€integralâ€derivative/proportionalâ€derivative controls for secondâ€order timeâ€varying switched nonlinear systems. International Journal of Robust and Nonlinear Control, 2020, 30, 1979-2000. | 2.1 | 4         |
| 373 | Multi-Criteria Analysis of Sensor Reliability for Wearable Human Activity Recognition. IEEE Sensors Journal, 2021, 21, 19144-19156.   | 2.4 | 4         |
| 374 | Stability and stabilization of a class of switched stochastic systems with saturation control. Science China Information Sciences, 2021, 64, 1.   | 2.7 | 4         |
| 375 | Stabilization Control for Strict-Feedback Nonlinear Systems With Time Delays. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2022, 52, 7549-7560.   | 5.9 | 4         |
| 376 | Long-Term Person Re-Identification Based on Appearance and Gait Feature Fusion under Covariate Changes. Processes, 2022, 10, 770.   | 1.3 | 4         |
| 377 | Barrier Lyapunov Function-Based Safe Reinforcement Learning for Autonomous Vehicles With Optimized Backstepping. IEEE Transactions on Neural Networks and Learning Systems, 2024, 35, 2066-2080.                    | 7.2 | 4         |
| 378 | Deep Transfer Learning for Wall Bulge Endpoints Regression for Autonomous Decoration Robots. IEEE Access, 2022, 10, 73945-73955.  | 2.6 | 4         |

| #   | ARTICLE   | IF  | CITATIONS |
|-----|---|-----|-----------|
| 379 | Dissipative control for linear systems with time-varying uncertainty. , 1997, , .   |     | 3         |
| 380 | Swarm formations using the general formation potential function. , 0, , .   |     | 3         |
| 381 | Object-oriented scale-adaptive filtering for human detection from stereo images. , 0, , .   |     | 3         |
| 382 | Robust Motion/Force Control of Holonomic Constrained Nonholonomic Mobile Manipulators using Hybrid Joints. , 2006, , .                                |     | 3         |
| 383 | Incremental Path Planning Using Partial Map Information for Mobile Robots. , 2006, , .  |     | 3         |
| 384 | Bidirectional Flow Shop Scheduling with Multi-Machine Capacity and Critical Operation Sequencing. , 2007, , .   |     | 3         |
| 385 | External vibration compensation via loop shaping and $H_{\infty}$ feedforward control design for hard disk drives in mobile applications. , 2007, , . |     | 3         |
| 386 | Simultaneous stability of a collection of networked control systems with uncertain delays. , 2008, , .  |     | 3         |
| 387 | Neural networks for disturbance and friction compensation in hard disk drives. , 2008, , .  |     | 3         |
| 388 | Adaptive neural control of SISO non-affine nonlinear time-delay systems with unknown hysteresis input. , 2008, , .                                    |     | 3         |
| 389 | Semi-parametric adaptive control of discrete-time nonlinear systems. , 2009, , .  |     | 3         |
| 390 | Approximation-based adaptive tracking control of pure-feedback nonlinear systems with multiple unknown time-varying delays. , 2009, , .               |     | 3         |
| 391 | Non-smooth Lyapunov function-based global stabilization for 2-dimensional quantum filters. , 2010, , .  |     | 3         |
| 392 | Extrinsic calibration of a camera with dual 2D laser range sensors for a mobile robot. , 2010, , .  |     | 3         |
| 393 | Fuzzy static output feedback $H_{\infty}$ control for nonlinear systems with time-varying delay: An LMI approach. , 2010, , .                         |     | 3         |
| 394 | Nonlinear control of aircraft on ground runway keeping. , 2011, , .   |     | 3         |
| 395 | Disturbance Observer Based Control of Small Unmanned Aerial Rotorcraft. Mathematical Problems in Engineering, 2013, 2013, 1-9.                        | 0.6 | 3         |
| 396 | Adaptive control design for a nonuniform gantry crane with constrained tension. , 2014, , .   |     | 3         |

| #   | ARTICLE   | IF  | CITATIONS |
|-----|---|-----|-----------|
| 397 | Vibration control design for a flexible string with input saturation. , 2014, , .   |     | 3         |
| 398 | Analysis of filtering methods for the SINS/CNS integrated navigation system of missile motion. , 2014, , .  |     | 3         |
| 399 | Emotion analysis of children's stories with context information. , 2014, , .  |     | 3         |
| 400 | Real-time one-dimensional motion estimation and its application in computer vision. Machine Vision and Applications, 2015, 26, 633-648.   | 1.7 | 3         |
| 401 | Coupling Lyapunov functions approach for quantum control. , 2015, , .   |     | 3         |
| 402 | Research of four-switch three-phase BLDC motor control scheme based on quasi Z-source converter. , 2015, , .  |     | 3         |
| 403 | Nonlinear Fuzzy Linguistics for the Determination of Nitrogen Monoxide, Nitrogen Dioxide, and Sulfur Dioxide by Molecular Absorption Spectroscopy. Instrumentation Science and Technology, 2015, 43, 558-572. | 0.9 | 3         |
| 404 | Neural adaptive control for robots with uncertainties in manipulator dynamics and actuator dynamics under constrained task space. , 2015, , .   |     | 3         |
| 405 | A modular designed bolt tightening shaft based on adaptive fuzzy backstepping control. International Journal of Control, Automation and Systems, 2016, 14, 924-938.   | 1.6 | 3         |
| 406 | Content-Driven Associative Memories for Color Image Patterns. IEEE Transactions on Cybernetics, 2018, 48, 139-150.  | 6.2 | 3         |
| 407 | Periodic event-based asynchronous filtering of switched systems. Journal of the Franklin Institute, 2019, 356, 10058-10075.   | 1.9 | 3         |
| 408 | Adaptive feedforward RBF neural network control with the deterministic persistence of excitation. Neural Computing and Applications, 2021, 33, 17013-17028.   | 3.2 | 3         |
| 409 | UKF-Based Vehicle Pose Estimation under Randomly Occurring Deception Attacks. Security and Communication Networks, 2021, 2021, 1-12.  | 1.0 | 3         |
| 410 | Mobile ultrasonic transducer positioning. Journal of Engineering, 2017, 2017, 119-122.  | 0.6 | 3         |
| 411 | Time-Synchronized Control: Analysis and Design. , 2022, , .   |     | 3         |
| 412 | Time-Synchronized Control for Disturbed Systems. , 2022, , 61-99.   |     | 3         |
| 413 | A primal neural network for solving nonlinear equations and inequalities. , 0, , .  |     | 2         |
| 414 | Robust Output Feedback H <sub>∞</sub> Control of Uncertain Markovian Jump Systems with Mode-Dependent Time-Delays. , 2006, , .  |     | 2         |



| #   | ARTICLE   | IF  | CITATIONS |
|-----|---|-----|-----------|
| 415 | Improved Direct Adaptive Fuzzy Control for a Class of MIMO Nonlinear Systems. , 2006, , .   |     | 2         |
| 416 | Nonlinear Control of Synaptic Plasticity Model for Constraining Bursting Activity in Epileptic Seizures. Proceedings of the American Control Conference, 2007, , .  | 0.0 | 2         |
| 417 | High Performance Motion Control Command Generator and Its Application in a 3-link Plane Manipulator. , 2007, , .  |     | 2         |
| 418 | Polar Polynomial Curve for Smooth, Collision-free Path Generation Between Two Arbitrary Configurations for Nonholonomic Robots. , 2007, , .   |     | 2         |
| 419 | Adaptive Neural Network Control for Marine Shafting System Using Dynamic Surface Control. Control Applications (CCA), Proceedings of the IEEE International Conference on, 2007, , .                            | 0.0 | 2         |
| 420 | Stable adaptive neural network control of MIMO nonaffine nonlinear discrete-time systems. , 2008, , .   |     | 2         |
| 421 | Uniform Adaptive Neural Control for Switched Underactuated Systems. , 2008, , .   |     | 2         |
| 422 | Decentralized cooperative control for swarm agents with high-order dynamics. , 2009, , .  |     | 2         |
| 423 | The Strategy of Designing Seek Current Profile to Reduce Acoustic Noise and Residual Vibrations. IEEE Transactions on Magnetics, 2010, 46, 1319-1322.   | 1.2 | 2         |
| 424 | Adaptive predictive control of a class of discrete-time MIMO nonlinear systems with uncertain couplings. , 2010, , .  |     | 2         |
| 425 | Learning compliance control of robot manipulators in contact with the unknown environment. , 2010, , .  |     | 2         |
| 426 | Dynamic modeling and system identification for the lower body of a social robot with flexible joints. , 2011, , .   |     | 2         |
| 427 | Robust GPS and radar sensor fusion for multiple aerial vehicles localization. , 2011, , .   |     | 2         |
| 428 | Modeling and Control of a Nonuniform Vibrating String under Spatiotemporally Varying Tension and Disturbance. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2011, 44, 7678-7683. | 0.4 | 2         |
| 429 | Emotional sentence identification in a story. , 2012, , .   |     | 2         |
| 430 | Robust adaptive neural network control of aircraft braking system. , 2012, , .  |     | 2         |
| 431 | Hollow interference fitted multi-ring composite rotor of the superconducting attitude control and energy storage flywheel. Journal of Reinforced Plastics and Composites, 2013, 32, 881-897.                    | 1.6 | 2         |
| 432 | Reinforcement learning control for a robotic manipulator with unknown deadzone. , 2014, , .   |     | 2         |

| #   | ARTICLE   | IF  | CITATIONS |
|-----|---|-----|-----------|
| 433 | Dynamic saliency-driven associative memories based on network potential field. Pattern Recognition, 2016, 60, 669-680.  | 5.1 | 2         |
| 434 | Multiple model based unscented particle filter algorithm for a SINS/CNS integrated navigation system. , 2017, , .   |     | 2         |
| 435 | State-Estimator-Based Asynchronous Repetitive Control of Discrete-Time Markovian Switching Systems. Complexity, 2020, 2020, 1-13.                               | 0.9 | 2         |
| 436 | Sammon's mapping regression for the quantitative analysis of glucose from both mid infrared and near infrared spectra. Analytical Methods, 2021, 13, 4485-4494. | 1.3 | 2         |
| 437 | Research on the Algorithm of Target Location in Aerial Images under a Large Inclination Angle. , 2021, , .  |     | 2         |
| 438 | Motion Synchronization for Human-Robot Collaboration. Lecture Notes in Computer Science, 2012, , 248-257.   | 1.0 | 2         |
| 439 | Adaptive Neural Network Control of an Airborne Robotic Manipulator System. , 2020, , .  |     | 2         |
| 440 | UDE-based Robust Control for a Class of Nonaffine Nonlinear Systems with Uncertainties and Output Constraint. , 2021, , .                                       |     | 2         |
| 441 | Observer-Based Sliding Mode Load Frequency Control of Power Systems under Deception Attack. Complexity, 2021, 2021, 1-11.                                       | 0.9 | 2         |
| 442 | Mind Robotic Rehabilitation Based on Motor Imagery Brain Computer Interface. Lecture Notes in Computer Science, 2010, , 161-171.                                | 1.0 | 2         |
| 443 | Design and Development of a Wearable Rehabilitation Robot. Lecture Notes in Computer Science, 2012, , 536-545.  | 1.0 | 2         |
| 444 | Companion Transporter: A Co-worker in the Greenhouse. Lecture Notes in Computer Science, 2019, , 322-331.   | 1.0 | 2         |
| 445 | Robust distributed controller design of rotational single-link smart materials beam. Journal of Control Theory and Applications, 2003, 1, 91-96.                | 0.8 | 1         |
| 446 | Partial state feedback tracking with ISpS disturbance attenuation via direct adaptive design. , 2004, , .   |     | 1         |
| 447 | Adaptive neuro-fuzzy identification method of Hammerstein model. , 0, , .   |     | 1         |
| 448 | An acceleration-based weighting scheme for minimum-effort inverse kinematics of redundant manipulators. , 0, , .  |     | 1         |
| 449 | ROBUST SOUND LOCALIZATION USING SMALL NUMBER OF MICROPHONES. International Journal of Information Acquisition, 2005, 02, 1-22.                                  | 0.2 | 1         |
| 450 | A Direct Method for Robust Adaptive Nonlinear Control with Unknown Hysteresis. , 0, , .   |     | 1         |

| #   | ARTICLE   | IF  | CITATIONS |
|-----|---|-----|-----------|
| 451 | Task allocation for multi-robot teams with self-organizing agents. , 0, , .   |     | 1         |
| 452 | Thruster and vibration control of marine powertrain using a class of feedforward approximators. , 2006, , .   |     | 1         |
| 453 | Neural network feedforward control for mechanical systems with external disturbances. , 2007, , .   |     | 1         |
| 454 | Adaptive Robust Output-feedback Motion/Force Control of Electrically Driven Nonholonomic Mobile Manipulators. Proceedings of the American Control Conference, 2007, , . | 0.0 | 1         |
| 455 | High performance quadratic classifier and the application on pendigits recognition. , 2007, , .   |     | 1         |
| 456 | Detectability in games of pursuit evasion with antagonizing players. , 2007, , .  |     | 1         |
| 457 | Sound source recognition for human robot interaction. , 2008, , .   |     | 1         |
| 458 | Utility pricing auction for multi-period resource allocation in multi-machine flow shop problems. , 2008, , .   |     | 1         |
| 459 | Top angle control and vibration reduction of flexible marine risers. , 2008, , .  |     | 1         |
| 460 | Conference reports - The Inaugural 2007 IEEE Multiconference on Systems and Control. IEEE Control Systems, 2008, 28, 103-106.   | 1.0 | 1         |
| 461 | Robust adaptive output feedback control of a class of discrete-time nonlinear systems perturbed by nonlinear uncertainties. , 2009, , .                                 |     | 1         |
| 462 | NIRS based brain activation mapping: A real-time application. , 2010, , .   |     | 1         |
| 463 | Synchronized altitude tracking control of multiple unmanned helicopters. , 2010, , .  |     | 1         |
| 464 | Neural Networks Training Based on Sequential Extended Kalman Filtering for Single Trial EEG Classification. , 2010, , .   |     | 1         |
| 465 | Mission-oriented design: A fully autonomous mobile urban robot. , 2010, , .   |     | 1         |
| 466 | A functional near-infrared spectroscopy based lie detector. , 2011, , .   |     | 1         |
| 467 | Feature extraction based on common spatial analysis for time domain parameters. , 2011, , .   |     | 1         |
| 468 | Localization method of multiple targets by Crossing Direction Finding. , 2011, , .  |     | 1         |

| #   | ARTICLE  | IF  | CITATIONS |
|-----|--|-----|-----------|
| 469 | System design and hardware integration of social robot Nancy. , 2011, , .  |     | 1         |
| 470 | Estimating the minimum number of robots to finish given multi-objects task. , 2011, , .  |     | 1         |
| 471 | Modeling and control of an Euler-Bernoulli beam under unknown spatiotemporally varying disturbance. , 2011, , .  |     | 1         |
| 472 | Adaptive impedance control for natural human-robot collaboration. , 2012, , .  |     | 1         |
| 473 | Adaptive optimal control for linear discrete time-varying systems. , 2013, , .   |     | 1         |
| 474 | Adaptive Region Tracking Control for Multi-Ships Coordination. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2013, 46, 39-44.                       | 0.4 | 1         |
| 475 | Fuzzy approximation adaptive control of quadruped robots with kinematics and dynamics uncertainties. , 2014, , .   |     | 1         |
| 476 | Partial feedback linearization control of space flexible-link manipulator with geometric nonlinearity. , 2014, , .   |     | 1         |
| 477 | Computational Intelligence in Control Ant3nio E Ruano 1. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2014, 47, 8867-8878.                         | 0.4 | 1         |
| 478 | Place recognition by combining multiple feature types with a modified vocabulary tree. , 2015, , .   |     | 1         |
| 479 | Variable selection based on information tree for spectroscopy quantitative analysis. Analytical Methods, 2015, 7, 6612-6618.   | 1.3 | 1         |
| 480 | A Robust Welding Seam Identification Method. , 2018, , .   |     | 1         |
| 481 | Periodic Event-Triggered Dynamic Output Feedback Dissipative Control With Stochastic Detection. IEEE Transactions on Circuits and Systems II: Express Briefs, 2020, 67, 1069-1073. | 2.2 | 1         |
| 482 | Historical and futuristic perspectives of robotics. Artificial Life and Robotics, 2020, 25, 393-399.   | 0.7 | 1         |
| 483 | Attention Determination for Social Robots Using Salient Region Detection. Lecture Notes in Computer Science, 2010, , 295-304.  | 1.0 | 1         |
| 484 | Minimal Set of Recognizable Gestures for a 10 DOF Anthropomorphic Robot. Lecture Notes in Computer Science, 2010, , 63-70.   | 1.0 | 1         |
| 485 | Unscented Particle Filtering based on Particle Selection and Weight Optimization for Nonlinear Estimation. , 2020, , .   |     | 1         |
| 486 | Tutor-guided Interior Navigation with Deep Reinforcement Learning. IEEE Transactions on Cognitive and Developmental Systems, 2020, , 1-1.  | 2.6 | 1         |

| #   | ARTICLE   | IF  | CITATIONS |
|-----|---|-----|-----------|
| 487 | Optimized Control for Human-Multi-Robot Collaboration via Multi-Agent Adaptive Dynamic Programming. IFAC-PapersOnLine, 2020, 53, 9207-9212.                               | 0.5 | 1         |
| 488 | Acceptance of Robotic Transportation in Small Workshops: A China-Iran Cross-Cultural Study. Lecture Notes in Computer Science, 2021, , 780-784.                           | 1.0 | 1         |
| 489 | Barrier Lyapunov Function-Based Safe Reinforcement Learning Algorithm for Autonomous Vehicles with System Uncertainty. , 2021, , .  |     | 1         |
| 490 | Globally Adaptive Neural Network Output-Feedback Control for Uncertain Nonlinear Systems. IEEE Transactions on Neural Networks and Learning Systems, 2023, 34, 9078-9087. | 7.2 | 1         |
| 491 | Adaptive repetitive learning control of servo mechanisms. , 0, , .  |     | 0         |
| 492 | BOAs: backoff adaptive scheme for task allocation with fault tolerance and uncertainty management. , 0, , .   |     | 0         |
| 493 | Output-feedback adaptive stabilization for nonlinear systems with unknown direction control coefficients. , 0, , .  |     | 0         |
| 494 | Dynamic modeling for modulation of ATP concentration at the endothelial surface by viscous shear flow. , 2006, , .  |     | 0         |
| 495 | Global stabilization of the MIMO triangular systems in the singular case. , 2007, , .   |     | 0         |
| 496 | Adaptive Q-Structure for Agent Formations. , 2007, , .  |     | 0         |
| 497 | Adaptive NN control of strict-feedback systems using ISS-modular approach. , 2007, , .  |     | 0         |
| 498 | Intelligent control and its applications to hard disk drives. International Journal of Adaptive Control and Signal Processing, 2008, 22, 323-324.                         | 2.3 | 0         |
| 499 | Output feedback neural control of helicopters. , 2008, , .  |     | 0         |
| 500 | Variation paradigm for asymptotic gain of switched time-delay systems. , 2009, , .  |     | 0         |
| 501 | Modeling of nonlinear dynamics at low frequencies in hard disk drive and its adaptive compensation. , 2009, , .   |     | 0         |
| 502 | Technical committee on industrial process control. IEEE Control Systems, 2009, 29, 19-20.   | 1.0 | 0         |
| 503 | Boundary control of a flexible marine installation system. , 2010, , .  |     | 0         |
| 504 | Technical Committee on Nonlinear Systems and Control [Technical Committee Activities]. IEEE Control Systems, 2010, 30, 17-29.   | 1.0 | 0         |

| #   | ARTICLE  | IF  | CITATIONS |
|-----|--|-----|-----------|
| 505 | Discrete-Event Systems [Technical Committee Activities]. IEEE Control Systems, 2010, 30, 25-26.  | 1.0 | 0         |
| 506 | Trajectory planning and control for multiple-vehicles systems. , 2011, , .   |     | 0         |
| 507 | Brain computer interface based on nonlinear characteristics identification of neuronal activities evoked optical properties. , 2011, , .                             |     | 0         |
| 508 | Pivotal Switching and Motion Invariance in Switched Systems. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2011, 44, 2407-2412.       | 0.4 | 0         |
| 509 | Tracking Control of Nonlinear Systems with Box-Constrained States. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2011, 44, 6715-6720. | 0.4 | 0         |
| 510 | Composite X marker detection and recognition. , 2011, , .  |     | 0         |
| 511 | Extended general linear model based on-line brain activation mapping. , 2011, , .  |     | 0         |
| 512 | Independent component analysis based trial-to-trial variations reduction in fNIRS signal. , 2012, , .  |     | 0         |
| 513 | Modeling and control of a flexible riser with application to marine installation. , 2012, , .  |     | 0         |
| 514 | Deterministic generation of the bell states via real-time quantum measurement-based feedback. , 2012, , .  |     | 0         |
| 515 | Towards low-cost contactless high-temperature estimation based on colorimetric fusion. , 2015, , .   |     | 0         |
| 516 | Kernel neighbor density with parallel computing mechanism for anomaly detection algorithm. , 2015, , .   |     | 0         |
| 517 | Preserving feature layout information for object recognition. IEEJ Transactions on Electrical and Electronic Engineering, 2017, 12, 116-123.                         | 0.8 | 0         |
| 518 | Guest editorial: special issue on Consensus-based Applications in Networked Systems. International Journal of Robust and Nonlinear Control, 2017, 27, 1376-1378.     | 2.1 | 0         |
| 519 | Trajectory tracking control of a miniature autonomous helicopter with input and output constraints. , 2017, , .  |     | 0         |
| 520 | Event-triggered Distributed Pose Estimation for Networked Vehicles. , 2018, , .  |     | 0         |
| 521 | Neural network based adaptive region tracking control for a swarm of ships in constrained space. , 2018, , .   |     | 0         |
| 522 | Development of a navigation performance evaluation system. Science China Information Sciences, 2020, 63, 1.  | 2.7 | 0         |

| #   | ARTICLE   | IF  | CITATIONS |
|-----|---|-----|-----------|
| 523 | Adaptive Neural Control for a Tilting Quadcopter with Finite-Time Convergence. , 2021, , .  |     | 0         |
| 524 | Research on the Algorithm of Target Location in Aerial Images under a Large Inclination Angle. , 2021, , .                                      |     | 0         |
| 525 | Interactive Media Authoring Systems. Lecture Notes in Computer Science, 2008, , 206-230.  | 1.0 | 0         |
| 526 | Task-Based Flocking Algorithm for Mobile Robot Cooperation. Communications in Computer and Information Science, 2009, , 310-321.                | 0.4 | 0         |
| 527 | Face Recognition Using ALLE and SIFT for Human Robot Interaction. Lecture Notes in Computer Science, 2009, , 53-62.                             | 1.0 | 0         |
| 528 | Equivalent Relationship of Feedforward Neural Networks and Real-Time Face Detection System. Lecture Notes in Computer Science, 2009, , 301-310. | 1.0 | 0         |
| 529 | Adaptive Compliance Control for Collision-Tolerant Robot Arm with Viscoelastic Trunk. Lecture Notes in Computer Science, 2010, , 683-694.       | 1.0 | 0         |
| 530 | Visual Cortex Inspired Junction Detection. Lecture Notes in Computer Science, 2011, , 225-232.  | 1.0 | 0         |
| 531 | EEG-P300 Extraction using Neural Network based Adaptive Recursive Filter and Adaptive Autoregressive Models. , 2011, , .                        |     | 0         |
| 532 | Installation System with Constraints. Advances in Industrial Control, 2014, , 41-70.  | 0.4 | 0         |
| 533 | Glance and Glimpse Network: A Stochastic Attention Model Driven by Class Saliency. Lecture Notes in Computer Science, 2017, , 572-587.          | 1.0 | 0         |
| 534 | Design and Fabrication of a Floating Social Robot: CeB the Social Blimp. Lecture Notes in Computer Science, 2021, , 660-670.                    | 1.0 | 0         |
| 535 | An Intelligent Collaborative System for Robot Dynamics. IEEE Transactions on Cybernetics, 2022, PP, 1-11.                                       | 6.2 | 0         |