

# Chun-Yi Su

## List of Publications by Year in descending order

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428  
papers

14,550  
citations

17429

63  
h-index

24961

109  
g-index

439  
all docs

439  
docs citations

439  
times ranked

7177  
citing authors

#	ARTICLE	IF	CITATIONS
1	Robust adaptive control of a class of nonlinear systems with unknown dead-zone. <i>Automatica</i> , 2004, 40, 407-413.	3.0	514
2	Modeling and Control of Piezo-Actuated Nanopositioning Stages: A Survey. <i>IEEE Transactions on Automation Science and Engineering</i> , 2016, 13, 313-332.	3.4	453
3	An Analytical Generalized Prandtl-Ishlinskii Model Inversion for Hysteresis Compensation in Micropositioning Control. <i>IEEE/ASME Transactions on Mechatronics</i> , 2011, 16, 734-744.	3.7	355
4	Neural Control of Bimanual Robots With Guaranteed Global Stability and Motion Precision. <i>IEEE Transactions on Industrial Informatics</i> , 2017, 13, 1162-1171.	7.2	328
5	Adaptive control of a class of nonlinear systems with fuzzy logic. <i>IEEE Transactions on Fuzzy Systems</i> , 1994, 2, 285-294.	6.5	314
6	Trajectory-Tracking Control of Mobile Robot Systems Incorporating Neural-Dynamic Optimized Model Predictive Approach. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , 2016, 46, 740-749.	5.9	303
7	Modeling and Compensation of Asymmetric Hysteresis Nonlinearity for Piezoceramic Actuators With a Modified Prandtl-Ishlinskii Model. <i>IEEE Transactions on Industrial Electronics</i> , 2014, 61, 1583-1595.	5.2	288
8	Teleoperation Control Based on Combination of Wave Variable and Neural Networks. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , 2017, 47, 2125-2136.	5.9	287
9	Adaptive variable structure control of a class of nonlinear systems with unknown Prandtl-Ishlinskii hysteresis. <i>IEEE Transactions on Automatic Control</i> , 2005, 50, 2069-2074.	3.6	270
10	Adaptive tracking of nonlinear systems with non-symmetric dead-zone input. <i>Automatica</i> , 2007, 43, 522-530.	3.0	241
11	Adaptive Impedance Control for an Upper Limb Robotic Exoskeleton Using Biological Signals. <i>IEEE Transactions on Industrial Electronics</i> , 2017, 64, 1664-1674.	5.2	235
12	T-S Fuzzy-Model-Based Robust $H_{\infty}$ Design for Networked Control Systems With Uncertainties. <i>IEEE Transactions on Industrial Informatics</i> , 2007, 3, 289-301.	7.2	227
13	Finite-Time Convergence Adaptive Fuzzy Control for Dual-Arm Robot With Unknown Kinematics and Dynamics. <i>IEEE Transactions on Fuzzy Systems</i> , 2019, 27, 574-588.	6.5	220
14	Motion Control of Piezoelectric Positioning Stages: Modeling, Controller Design, and Experimental Evaluation. <i>IEEE/ASME Transactions on Mechatronics</i> , 2013, 18, 1459-1471.	3.7	210
15	Fuzzy Approximation-Based Adaptive Backstepping Control of an Exoskeleton for Human Upper Limbs. <i>IEEE Transactions on Fuzzy Systems</i> , 2015, 23, 555-566.	6.5	206
16	Nonlinear Disturbance Observer-Based Control Design for a Robotic Exoskeleton Incorporating Fuzzy Approximation. <i>IEEE Transactions on Industrial Electronics</i> , 2015, 62, 5763-5775.	5.2	198
17	Development and Learning Control of a Human Limb With a Rehabilitation Exoskeleton. <i>IEEE Transactions on Industrial Electronics</i> , 2014, 61, 3776-3785.	5.2	192
18	Adaptive Neural Control for a Class of Uncertain Nonlinear Systems in Pure-Feedback Form With Hysteresis Input. <i>IEEE Transactions on Systems, Man, and Cybernetics</i> , 2009, 39, 431-443.	5.5	187

#	ARTICLE	IF	CITATIONS
19	A Sliding Mode Controller with Improved Adaptation Laws for the Upper Bounds on the Norm of Uncertainties. <i>Automatica</i> , 1998, 34, 1657-1661.	3.0	168
20	Interface Design of a Physical Human-Robot Interaction System for Human Impedance Adaptive Skill Transfer. <i>IEEE Transactions on Automation Science and Engineering</i> , 2018, 15, 329-340.	3.4	168
21	A generalized Prandtl-Ishlinskii model for characterizing the hysteresis and saturation nonlinearities of smart actuators. <i>Smart Materials and Structures</i> , 2009, 18, 045001.	1.8	163
22	Adaptive control of a class of nonlinear systems with nonlinearly parameterized fuzzy approximators. <i>IEEE Transactions on Fuzzy Systems</i> , 2001, 9, 315-323.	6.5	161
23	Neural-Adaptive Control of Single-Master-Multiple-Slaves Teleoperation for Coordinated Multiple Mobile Manipulators With Time-Varying Communication Delays and Input Uncertainties. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 2013, 24, 1400-1413.	7.2	155
24	Asymmetric Bimanual Control of Dual-Arm Exoskeletons for Human-Cooperative Manipulations. <i>IEEE Transactions on Robotics</i> , 2018, 34, 264-271.	7.3	155
25	Trilateral Teleoperation of Adaptive Fuzzy Force/Motion Control for Nonlinear Teleoperators With Communication Random Delays. <i>IEEE Transactions on Fuzzy Systems</i> , 2013, 21, 610-624.	6.5	148
26	A Novel Robust Nonlinear Motion Controller With Disturbance Observer. <i>IEEE Transactions on Control Systems Technology</i> , 2008, 16, 137-147.	3.2	147
27	Reinforcement Learning of Manipulation and Grasping Using Dynamical Movement Primitives for a Humanoidlike Mobile Manipulator. <i>IEEE/ASME Transactions on Mechatronics</i> , 2018, 23, 121-131.	3.7	142
28	Experimental characterization and modeling of rate-dependent hysteresis of a piezoceramic actuator. <i>Mechatronics</i> , 2009, 19, 656-670.	2.0	140
29	Sampled-data-based stabilization of switched linear neutral systems. <i>Automatica</i> , 2016, 72, 92-99.	3.0	140
30	Personalized Variable Gain Control With Tremor Attenuation for Robot Teleoperation. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , 2018, 48, 1759-1770.	5.9	140
31	Robust adaptive control of a class of nonlinear systems including actuator hysteresis with Prandtl-Ishlinskii presentations. <i>Automatica</i> , 2006, 42, 859-867.	3.0	137
32	Haptic Identification by ELM-Controlled Uncertain Manipulator. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , 2017, 47, 2398-2409.	5.9	137
33	Development of the rate-dependent Prandtl-Ishlinskii model for smart actuators. <i>Smart Materials and Structures</i> , 2008, 17, 035026.	1.8	129
34	Distributed Finite-Time Fault-Tolerant Containment Control for Multiple Unmanned Aerial Vehicles. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 2020, 31, 2077-2091.	7.2	126
35	Adaptive Estimated Inverse Output-Feedback Quantized Control for Piezoelectric Positioning Stage. <i>IEEE Transactions on Cybernetics</i> , 2019, 49, 2106-2118.	6.2	125
36	Robust motion/force control of mechanical systems with classical nonholonomic constraints. <i>IEEE Transactions on Automatic Control</i> , 1994, 39, 609-614.	3.6	112

#	ARTICLE	IF	CITATIONS
37	Mind Control of a Robotic Arm With Visual Fusion Technology. IEEE Transactions on Industrial Informatics, 2018, 14, 3822-3830.	7.2	109
38	Stable adaptive fuzzy control of nonlinear systems preceded by unknown backlash-like hysteresis. IEEE Transactions on Fuzzy Systems, 2003, 11, 1-8.	6.5	108
39	An adaptive variable structure model following control design for robot manipulators. IEEE Transactions on Automatic Control, 1991, 36, 347-353.	3.6	105
40	Design of Implementable Adaptive Control for Micro/Nano Positioning System Driven by Piezoelectric Actuator. IEEE Transactions on Industrial Electronics, 2016, 63, 6471-6481.	5.2	103
41	Robust adaptive motion/force tracking control of uncertain nonholonomic mechanical systems. IEEE Transactions on Automation Science and Engineering, 2003, 19, 175-181.	2.4	100
42	A Nonlinear Disturbance Observer for Multivariable Systems and Its Application to Magnetic Bearing Systems. IEEE Transactions on Control Systems Technology, 2004, 12, 569-577.	3.2	99
43	Decentralized Adaptive Neural Approximated Inverse Control for a Class of Large-Scale Nonlinear Hysteretic Systems With Time Delays. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2019, 49, 2424-2437.	5.9	99
44	Compensation of Hysteresis Nonlinearity in Magnetostrictive Actuators With Inverse Multiplicative Structure for Preisach Model. IEEE Transactions on Automation Science and Engineering, 2014, 11, 613-619.	3.4	96
45	Robust Relative Navigation by Integration of ICP and Adaptive Kalman Filter Using Laser Scanner and IMU. IEEE/ASME Transactions on Mechatronics, 2016, 21, 2015-2026.	3.7	96
46	Adaptive Control for the Systems Preceded by Hysteresis. IEEE Transactions on Automatic Control, 2008, 53, 1019-1025.	3.6	95
47	Robust Adaptive Inverse Control of a Class of Nonlinear Systems With Prandtl-Ishlinskii Hysteresis Model. IEEE Transactions on Automatic Control, 2014, 59, 2170-2175.	3.6	94
48	Modeling and Identification of Piezoelectric-Actuated Stages Cascading Hysteresis Nonlinearity With Linear Dynamics. IEEE/ASME Transactions on Mechatronics, 2016, 21, 1792-1797.	3.7	91
49	Adaptive Control for Uncertain Continuous-Time Systems Using Implicit Inversion of Prandtl-Ishlinskii Hysteresis Representation. IEEE Transactions on Automatic Control, 2010, 55, 2357-2363.	3.6	90
50	Observer-based control of discrete-time Lipschitzian non-linear systems: application to one-link flexible joint robot. International Journal of Control, 2005, 78, 385-395.	1.2	89
51	Decentralized Fuzzy Control of Multiple Cooperating Robotic Manipulators With Impedance Interaction. IEEE Transactions on Fuzzy Systems, 2015, 23, 1044-1056.	6.5	85
52	Brain-Machine Interface and Visual Compressive Sensing-Based Teleoperation Control of an Exoskeleton Robot. IEEE Transactions on Fuzzy Systems, 2017, 25, 58-69.	6.5	84
53	Human Cooperative Wheelchair With Brain-Machine Interaction Based on Shared Control Strategy. IEEE/ASME Transactions on Mechatronics, 2017, 22, 185-195.	3.7	84
54	Adaptive Neural Control for a Class of Nonlinear Systems With Uncertain Hysteresis Inputs and Time-Varying State Delays. IEEE Transactions on Neural Networks, 2009, 20, 1148-1164.	4.8	83

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55	Proxy-Based Sliding-Mode Tracking Control of Piezoelectric-Actuated Nanopositioning Stages. IEEE/ASME Transactions on Mechatronics, 2015, 20, 1956-1965.	3.7	83
56	Missile Guidance Law Based on Robust Model Predictive Control Using Neural-Network Optimization. IEEE Transactions on Neural Networks and Learning Systems, 2015, 26, 1803-1809.	7.2	81
57	Neural Network-Based Control of Networked Trilateral Teleoperation With Geometrically Unknown Constraints. IEEE Transactions on Cybernetics, 2016, 46, 1051-1064.	6.2	81
58	Neuro-adaptive observer based control of flexible joint robot. Neurocomputing, 2018, 275, 73-82.	3.5	79
59	Vision-Based Model Predictive Control for Steering of a Nonholonomic Mobile Robot. IEEE Transactions on Control Systems Technology, 2015, , 1-1.	3.2	78
60	Roll- and pitch-plane coupled hydro-pneumatic suspension. Vehicle System Dynamics, 2010, 48, 361-386.	2.2	74
61	Adaptive Neural Network Control for Robotic Manipulators With Unknown Deadzone. IEEE Transactions on Cybernetics, 2018, 48, 2670-2682.	6.2	73
62	Adaptive variable structure set-point control of underactuated robots. IEEE Transactions on Automatic Control, 1999, 44, 2090-2093.	3.6	72
63	Compound Adaptive Fuzzy Quantized Control for Quadrotor and Its Experimental Verification. IEEE Transactions on Cybernetics, 2021, 51, 1121-1133.	6.2	69
64	Vision-Based Human Tracking Control of a Wheeled Inverted Pendulum Robot. IEEE Transactions on Cybernetics, 2016, 46, 2423-2434.	6.2	68
65	Variable structure control of robotic manipulator with PID sliding surfaces. International Journal of Robust and Nonlinear Control, 1998, 8, 79-90.	2.1	65
66	Intelligent control of piezoelectric actuators. , 0, , .		65
67	Global adaptive tracking control of robot manipulators using neural networks with finite-time learning convergence. International Journal of Control, Automation and Systems, 2017, 15, 1916-1924.	1.6	64
68	Adaptive Neural Network Dynamic Surface Control for a Class of Time-Delay Nonlinear Systems With Hysteresis Inputs and Dynamic Uncertainties. IEEE Transactions on Neural Networks and Learning Systems, 2015, 26, 2844-2860.	7.2	63
69	Boosting-Based EMG Patterns Classification Scheme for Robustness Enhancement. IEEE Journal of Biomedical and Health Informatics, 2013, 17, 545-552.	3.9	61
70	Motion Planning and Adaptive Neural Tracking Control of an Uncertain Two-Link Rigid-“Flexible Manipulator With Vibration Amplitude Constraint. IEEE Transactions on Neural Networks and Learning Systems, 2022, 33, 3814-3828.	7.2	61
71	Pseudo-inverse-based adaptive control for uncertain discrete time systems preceded by hysteresis. Automatica, 2009, 45, 469-476.	3.0	60
72	Implementable Adaptive Inverse Control of Hysteretic Systems via Output Feedback With Application to Piezoelectric Positioning Stages. IEEE Transactions on Industrial Electronics, 2016, 63, 5733-5743.	5.2	59

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73	Decentralized fractional-order backstepping fault-tolerant control of multi-UAVs against actuator faults and wind effects. <i>Aerospace Science and Technology</i> , 2020, 104, 105939.	2.5	58
74	Distributed adaptive fractional-order fault-tolerant cooperative control of networked unmanned aerial vehicles via fuzzy neural networks. <i>IET Control Theory and Applications</i> , 2019, 13, 2917-2929.	1.2	55
75	Generalized Prandtl-Ishlinskii hysteresis model: Hysteresis modeling and its inverse for compensation in smart actuators. , 2008, , .		54
76	Roll- and pitch-plane-coupled hydro-pneumatic suspension. Part 2: dynamic response analyses. <i>Vehicle System Dynamics</i> , 2010, 48, 507-528.	2.2	54
77	Adaptive control for continuous-time systems with actuator and sensor hysteresis. <i>Automatica</i> , 2016, 64, 196-207.	3.0	54
78	Output Feedback Adaptive Motion Control and Its Experimental Verification for Time-Delay Nonlinear Systems With Asymmetric Hysteresis. <i>IEEE Transactions on Industrial Electronics</i> , 2020, 67, 6824-6834.	5.2	53
79	Modeling and inverse adaptive control of asymmetric hysteresis systems with applications to magnetostrictive actuator. <i>Control Engineering Practice</i> , 2014, 33, 148-160.	3.2	51
80	Human-Inspired Control of Dual-Arm Exoskeleton Robots With Force and Impedance Adaptation. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , 2020, 50, 5296-5305.	5.9	51
81	Decentralized finite-time adaptive fault-tolerant synchronization tracking control for multiple UAVs with prescribed performance. <i>Journal of the Franklin Institute</i> , 2020, 357, 11830-11862.	1.9	51
82	Data-Based Virtual Unmodeled Dynamics Driven Multivariable Nonlinear Adaptive Switching Control. <i>IEEE Transactions on Neural Networks</i> , 2011, 22, 2154-2172.	4.8	50
83	Fractional-Order Adaptive Fault-Tolerant Synchronization Tracking Control of Networked Fixed-Wing UAVs Against Actuator-Sensor Faults via Intelligent Learning Mechanism. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 2021, 32, 5539-5553.	7.2	50
84	Stabilization of Uncertain Nonholonomic Systems via Time-Varying Sliding Mode Control. <i>IEEE Transactions on Automatic Control</i> , 2004, 49, 757-763.	3.6	49
85	State Estimation for Periodic Neural Networks With Uncertain Weight Matrices and Markovian Jump Channel States. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , 2018, 48, 1841-1850.	5.9	48
86	Variable structure control of robot manipulators with nonlinear sliding manifolds. <i>International Journal of Control</i> , 1993, 58, 285-300.	1.2	47
87	Operator-based robust control for nonlinear systems with Prandtl-Ishlinskii hysteresis. <i>International Journal of Systems Science</i> , 2011, 42, 643-652.	3.7	47
88	Motion/force tracking control of nonholonomic mechanical systems via combining cascaded design and backstepping. <i>Automatica</i> , 2013, 49, 3682-3686.	3.0	47
89	Quasi-Synchronization of Time Delay Markovian Jump Neural Networks With Impulsive-Driven Transmission and Fading Channels. <i>IEEE Transactions on Cybernetics</i> , 2020, 50, 4121-4131.	6.2	47
90	Compensation of rate-dependent hysteresis nonlinearities in a magnetostrictive actuator using an inverse Prandtl-Ishlinskii model. <i>Smart Materials and Structures</i> , 2013, 22, 025027.	1.8	46

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91	Nonlinear Control of Systems Preceded by Preisach Hysteresis Description: A Prescribed Adaptive Control Approach. IEEE Transactions on Control Systems Technology, 2015, , 1-1.	3.2	46
92	Robust Vision-Based Tube Model Predictive Control of Multiple Mobile Robots for Leader-Follower Formation. IEEE Transactions on Industrial Electronics, 2020, 67, 3096-3106.	5.2	45
93	Semi-supervised multi-view clustering with Graph-regularized Partially Shared Non-negative Matrix Factorization. Knowledge-Based Systems, 2020, 190, 105185.	4.0	45
94	Nussbaum-based finite-time fractional-order backstepping fault-tolerant flight control of fixed-wing UAV against input saturation with hardware-in-the-loop validation. Mechanical Systems and Signal Processing, 2021, 153, 107406.	4.4	44
95	Hybrid adaptive/robust motion control of rigid-link electrically-driven robot manipulators. IEEE Transactions on Automation Science and Engineering, 1995, 11, 426-432.	2.4	42
96	Multisensor-Based Navigation and Control of a Mobile Service Robot. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2021, 51, 2624-2634.	5.9	42
97	Adaptive sliding mode coordinated control of multiple robot arms attached to a constrained object. IEEE Transactions on Systems, Man, and Cybernetics, 1995, 25, 871-878.	0.9	39
98	Adaptive control of system involving complex hysteretic nonlinearities: a generalised Prandtl-Ishlinskii modelling approach. International Journal of Control, 2009, 82, 1786-1793.	1.2	39
99	Motion Planning for Omnidirectional Wheeled Mobile Robot by Potential Field Method. Journal of Advanced Transportation, 2017, 2017, 1-11.	0.9	39
100	Combined adaptive and variable structure control for constrained robots. Automatica, 1995, 31, 483-488.	3.0	37
101	Decentralised adaptive control of cooperating Robotic manipulators with disturbance observers. IET Control Theory and Applications, 2014, 8, 515-521.	1.2	37
102	High-precision control of piezoelectric nanopositioning stages using hysteresis compensator and disturbance observer. Smart Materials and Structures, 2014, 23, 105007.	1.8	37
103	Adaptive Implicit Inverse Control for a Class of Discrete-Time Hysteretic Nonlinear Systems and Its Application. IEEE/ASME Transactions on Mechatronics, 2020, 25, 2112-2122.	3.7	37
104	An Adaptive Robust Nonlinear Motion Controller Combined With Disturbance Observer. IEEE Transactions on Control Systems Technology, 2010, 18, 454-462.	3.2	36
105	Synergy-Based Control of Assistive Lower-Limb Exoskeletons by Skill Transfer. IEEE/ASME Transactions on Mechatronics, 2020, 25, 705-715.	3.7	36
106	BACKSTEPPING-BASED HYBRID ADAPTIVE CONTROL OF ROBOT MANIPULATORS INCORPORATING ACTUATOR DYNAMICS. , 1997, 11, 141-153.		35
107	Observer design for discrete-time systems subject to time-delay nonlinearities. International Journal of Systems Science, 2006, 37, 629-641.	3.7	35
108	Experimental characterization and modeling of rate-dependent asymmetric hysteresis of magnetostrictive actuators. Smart Materials and Structures, 2014, 23, 035002.	1.8	35

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109	Fault-Tolerant Control of a Class of Switched Nonlinear Systems With Structural Uncertainties. IEEE Transactions on Circuits and Systems II: Express Briefs, 2016, 63, 201-205.	2.2	35
110	Fault-Tolerant Control for Quadrotor UAV via Backstepping Approach. , 2010, , .		33
111	A Comprehensive Dynamic Model for Magnetostrictive Actuators Considering Different Input Frequencies With Mechanical Loads. IEEE Transactions on Industrial Informatics, 2016, 12, 980-990.	7.2	33
112	Adaptive Control and Optimization of Mobile Manipulation Subject to Input Saturation and Switching Constraints. IEEE Transactions on Automation Science and Engineering, 2019, 16, 1543-1555.	3.4	33
113	State Observer-Based Robust Control Scheme for Electrically Driven Robot Manipulators. Journal of the American College of Radiology, 2004, 20, 796-804.	0.9	30
114	Heavy vehicle pitch dynamics and suspension tuning. Part I: unconnected suspension. Vehicle System Dynamics, 2008, 46, 931-953.	2.2	30
115	Intelligent Networked Teleoperation Control. , 2015, , .		30
116	Motion Tracking Control Design for a Class of Nonholonomic Mobile Robot Systems. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2020, 50, 2150-2156.	5.9	30
117	Finite-Horizon $H_{\infty}$ State Estimation for Time-Varying Neural Networks with Periodic Inner Coupling and Measurements Scheduling. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2020, 50, 211-219.	5.9	30
118	Adaptive fuzzy-based motion generation and control of mobile under-actuated manipulators. Engineering Applications of Artificial Intelligence, 2014, 30, 86-95.	4.3	29
119	Adaptive Pseudo Inverse Control for a Class of Nonlinear Asymmetric and Saturated Nonlinear Hysteretic Systems. IEEE/CAA Journal of Automatica Sinica, 2021, 8, 916-928.	8.5	28
120	Control strategy based on Fourier transformation and intelligent optimization for planar Pendubot. Information Sciences, 2019, 491, 279-288.	4.0	27
121	Whole-Body Control of an Autonomous Mobile Manipulator Using Series Elastic Actuators. IEEE/ASME Transactions on Mechatronics, 2021, 26, 657-667.	3.7	27
122	Adaptive motion control of rigid-link electrically-driven robot manipulators. , 0, , .		26
123	Adaptive Output Feedback Funnel Control of Uncertain Nonlinear Systems With Arbitrary Relative Degree. IEEE Transactions on Automatic Control, 2021, 66, 2854-2860.	3.6	26
124	The Power-Performance Tradeoffs of the Intel Xeon Phi on HPC Applications. , 2014, , .		25
125	A product-of-exponential-based robot calibration method with optimal measurement configurations. International Journal of Advanced Robotic Systems, 2017, 14, 172988141774355.	1.3	25
126	Remote Estimator Design for Time-Delay Neural Networks Using Communication State Information. IEEE Transactions on Neural Networks and Learning Systems, 2018, 29, 5149-5158.	7.2	25



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127	Adaptive control of robot manipulators under constrained motion. , 1990, , .		24
128	Robust adaptive control for a class of perturbed strict-feedback non-linear systems with unknown Prandtl-Ishlinskii hysteresis. International Journal of Control, 2008, 81, 1699-1708.	1.2	24
129	Hysteresis compensation for smart actuators using inverse generalized Prandtl-Ishlinskii model. , 2009, , .		24
130	Fuzzy Approximator Based Adaptive Dynamic Surface Control for Unknown Time Delay Nonlinear Systems With Input Asymmetric Hysteresis Nonlinearities. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2017, 47, 2218-2232.	5.9	24
131	Fractional order PID-based adaptive fault-tolerant cooperative control of networked unmanned aerial vehicles against actuator faults and wind effects with hardware-in-the-loop experimental validation. Control Engineering Practice, 2021, 114, 104861.	3.2	24
132	Adaptive control of a class of nonlinear systems with a first-order parameterized Sugeno fuzzy approximator. IEEE Transactions on Systems, Man and Cybernetics, Part C: Applications and Reviews, 2001, 31, 410-419.	3.3	23
133	Integral resonant damping for high-bandwidth control of piezoceramic stack actuators with asymmetric hysteresis nonlinearity. Mechatronics, 2014, 24, 367-375.	2.0	23
134	Odd-harmonic repetitive control for high-speed raster scanning of piezo-actuated nanopositioning stages with hysteresis nonlinearity. Sensors and Actuators A: Physical, 2016, 244, 95-105.	2.0	23
135	Adaptive Control for Ionic Polymer-Metal Composite Actuators. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2016, 46, 1468-1477.	5.9	23
136	Targeting Posture Control With Dynamic Obstacle Avoidance of Constrained Uncertain Wheeled Mobile Robots Including Unknown Skidding and Slipping. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2021, 51, 6650-6659.	5.9	23
137	Distributed Fractional-Order Intelligent Adaptive Fault-Tolerant Formation-Containment Control of Two-Layer Networked Unmanned Airships for Safe Observation of a Smart City. IEEE Transactions on Cybernetics, 2022, 52, 9132-9144.	6.2	23
138	RGB-D sensor-based visual SLAM for localization and navigation of indoor mobile robot. , 2016, , .		22
139	FNN Approximation-Based Active Dynamic Surface Control for Suppressing Chatter in Micro-Milling With Piezo-Actuators. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2017, 47, 2100-2113.	5.9	22
140	Reconfigurable control allocation applied to an aircraft benchmark model. , 2008, , .		21
141	Nonlinear Dynamic Analysis of a Skyhook-Based Semi-Active Suspension System With Magneto-Rheological Damper. IEEE Transactions on Vehicular Technology, 2018, 67, 10446-10456.	3.9	21
142	Dynamic Modeling and Tracking Control for Dielectric Elastomer Actuator With a Model Predictive Controller. IEEE Transactions on Industrial Electronics, 2022, 69, 1819-1828.	5.2	21
143	Adaptive sliding mode control of robot manipulators: General sliding manifold case. Automatica, 1994, 30, 1497-1500.	3.0	20
144	Comparison of Roll Properties of Hydraulically and Pneumatically Interconnected Suspensions for Heavy Vehicles. , 2005, , .		19

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145	A hybrid intelligent optimal control method for complex flotation process. International Journal of Systems Science, 2009, 40, 945-960.	3.7	19
146	A note on the properties of a generalized Prandtl–Ishlinskii model. Smart Materials and Structures, 2011, 20, 087003.	1.8	19
147	Robust Control of Collaborative Manipulators - Flexible Object System. International Journal of Advanced Robotic Systems, 2013, 10, 257.	1.3	19
148	Motion Detection Enhanced Control of an Upper Limb Exoskeleton Robot for Rehabilitation Training. International Journal of Humanoid Robotics, 2017, 14, 1650031.	0.6	19
149	Simultaneous State and Dead-Zone Parameter Estimation for a Class of Bounded-State Nonlinear Systems. IEEE Transactions on Control Systems Technology, 2011, 19, 911-919.	3.2	18
150	An Improved Estimation Method for Unmodeled Dynamics Based on ANFIS and Its Application to Controller Design. IEEE Transactions on Fuzzy Systems, 2013, 21, 989-1005.	6.5	18
151	Adaptive Neural Digital Control of Hysteretic Systems With Implicit Inverse Compensator and Its Application on Magnetostrictive Actuator. IEEE Transactions on Neural Networks and Learning Systems, 2022, 33, 667-680.	7.2	18
152	Multi-hierarchy interaction control of a redundant robot using impedance learning. Mechatronics, 2020, 67, 102348.	2.0	18
153	Teleoperated robot writing using EMG signals. , 2015, , .		17
154	Adaptive Neural-Network-Based Active Control of Regenerative Chatter in Micromilling. IEEE Transactions on Automation Science and Engineering, 2018, 15, 628-640.	3.4	17
155	A General Position Control Method for Planar Underactuated Manipulators With Second-Order Nonholonomic Constraints. IEEE Transactions on Cybernetics, 2021, 51, 4733-4742.	6.2	17
156	Position and Posture Control of Planar Four-Link Underactuated Manipulator Based on Neural Network Model. IEEE Transactions on Industrial Electronics, 2020, 67, 4721-4728.	5.2	17
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