

Bin Yao

List of Publications by Year in descending order

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229
papers

9,173
citations

34016

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229
all docs

229
docs citations

229
times ranked

3626
citing authors

#	ARTICLE	IF	CITATIONS
1	Adaptive robust control of SISO nonlinear systems in a semi-strict feedback form. <i>Automatica</i> , 1997, 33, 893-900.	3.0	653
2	Adaptive robust motion control of single-rod hydraulic actuators: theory and experiments. <i>IEEE/ASME Transactions on Mechatronics</i> , 2000, 5, 79-91.	3.7	549
3	Adaptive robust control of MIMO nonlinear systems in semi-strict feedback forms. <i>Automatica</i> , 2001, 37, 1305-1321.	3.0	313
4	Adaptive robust precision motion control of linear motors with negligible electrical dynamics: theory and experiments. <i>IEEE/ASME Transactions on Mechatronics</i> , 2001, 6, 444-452.	3.7	272
5	High-performance robust motion control of machine tools: an adaptive robust control approach and comparative experiments. <i>IEEE/ASME Transactions on Mechatronics</i> , 1997, 2, 63-76.	3.7	233
6	μ -Synthesis-Based Adaptive Robust Control of Linear Motor Driven Stages With High-Frequency Dynamics: A Case Study. <i>IEEE/ASME Transactions on Mechatronics</i> , 2015, 20, 1482-1490.	3.7	223
7	Smooth Robust Adaptive Sliding Mode Control of Manipulators With Guaranteed Transient Performance. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME</i> , 1996, 118, 764-775.	0.9	210
8	Adaptive Robust Vibration Control of Full-Car Active Suspensions With Electrohydraulic Actuators. <i>IEEE Transactions on Control Systems Technology</i> , 2013, 21, 2417-2422.	3.2	209
9	Accurate Motion Control of Linear Motors With Adaptive Robust Compensation of Nonlinear Electromagnetic Field Effect. <i>IEEE/ASME Transactions on Mechatronics</i> , 2013, 18, 1122-1129.	3.7	204
10	Indirect Adaptive Robust Control of Hydraulic Manipulators With Accurate Parameter Estimates. <i>IEEE Transactions on Control Systems Technology</i> , 2011, 19, 567-575.	3.2	197
11	RBF-Neural-Network-Based Adaptive Robust Control for Nonlinear Bilateral Teleoperation Manipulators With Uncertainty and Time Delay. <i>IEEE/ASME Transactions on Mechatronics</i> , 2020, 25, 906-918.	3.7	158
12	Adaptive robust control of linear motors with dynamic friction compensation using modified LuGre model. <i>Automatica</i> , 2009, 45, 2890-2896.	3.0	157
13	Integrated Direct/Indirect Adaptive Robust Control of Hydraulic Manipulators With Valve Deadband. <i>IEEE/ASME Transactions on Mechatronics</i> , 2011, 16, 707-715.	3.7	157
14	Adaptive Fuzzy Backstepping Control for Stable Nonlinear Bilateral Teleoperation Manipulators With Enhanced Transparency Performance. <i>IEEE Transactions on Industrial Electronics</i> , 2020, 67, 746-756.	5.2	154
15	High performance adaptive robust control of nonlinear systems: a general framework and new schemes. , 0, , .		141
16	Neural network adaptive robust control of nonlinear systems in semi-strict feedback form. <i>Automatica</i> , 2001, 37, 1149-1160.	3.0	138
17	Adaptive robust motion control of linear motors for precision manufacturing. <i>Mechatronics</i> , 2002, 12, 595-616.	2.0	137
18	Adaptive robust posture control of a parallel manipulator driven by pneumatic muscles. <i>Automatica</i> , 2008, 44, 2248-2257.	3.0	126

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19	Modeling of Transmission Characteristics Across a Cable-Conduit System. IEEE Transactions on Robotics, 2010, 26, 914-924.	7.3	122
20	Output feedback adaptive robust precision motion control of linear motors. Automatica, 2001, 37, 1029-1039.	3.0	121
21	Time Optimal Contouring Control of Industrial Biaxial Gantry: A Highly Efficient Analytical Solution of Trajectory Planning. IEEE/ASME Transactions on Mechatronics, 2017, 22, 247-257.	3.7	118
22	Non-linear adaptive robust control of electro-hydraulic systems driven by double-rod actuators. International Journal of Control, 2001, 74, 761-775.	1.2	116
23	Desired Compensation Adaptive Robust Control of a Linear-Motor-Driven Precision Industrial Gantry With Improved Cogging Force Compensation. IEEE/ASME Transactions on Mechatronics, 2008, 13, 617-624.	3.7	111
24	Adaptive Robust Precision Motion Control of Systems With Unknown Input Dead-Zones: A Case Study With Comparative Experiments. IEEE Transactions on Industrial Electronics, 2011, 58, 2454-2464.	5.2	107
25	An Orthogonal Global Task Coordinate Frame for Contouring Control of Biaxial Systems. IEEE/ASME Transactions on Mechatronics, 2012, 17, 622-634.	3.7	102
26	Nonlinear Adaptive Robust Force Control of Hydraulic Load Simulator. Chinese Journal of Aeronautics, 2012, 25, 766-775.	2.8	98
27	Adaptive Robust Precision Motion Control of a Piezoelectric Positioning Stage. IEEE Transactions on Control Systems Technology, 2008, 16, 1039-1046.	3.2	93
28	Coordinate Control of Energy Saving Programmable Valves. IEEE Transactions on Control Systems Technology, 2008, 16, 34-45.	3.2	92
29	Adaptive Robust Posture Control of Parallel Manipulator Driven by Pneumatic Muscles With Redundancy. IEEE/ASME Transactions on Mechatronics, 2008, 13, 441-450.	3.7	90
30	Adaptive Robust Precision Motion Control of a High-Speed Industrial Gantry With Cogging Force Compensations. IEEE Transactions on Control Systems Technology, 2011, 19, 1149-1159.	3.2	90
31	Adaptive Robust Precision Motion Control of Linear Motors With Integrated Compensation of Nonlinearities and Bearing Flexible Modes. IEEE Transactions on Industrial Informatics, 2013, 9, 965-973.	7.2	89
32	Advanced Synchronization Control of a Dual-Linear-Motor-Driven Gantry With Rotational Dynamics. IEEE Transactions on Industrial Electronics, 2018, 65, 7526-7535.	5.2	86
33	Integrated Coordinated/Synchronized Contouring Control of a Dual-Linear-Motor-Driven Gantry. IEEE Transactions on Industrial Electronics, 2020, 67, 3944-3954.	5.2	85
34	Coordinated Adaptive Robust Contouring Control of an Industrial Biaxial Precision Gantry With Cogging Force Compensations. IEEE Transactions on Industrial Electronics, 2010, 57, 1746-1754.	5.2	84
35	A globally stable saturated desired compensation adaptive robust control for linear motor systems with comparative experiments. Automatica, 2007, 43, 1840-1848.	3.0	78
36	Coordinated Adaptive Robust Contouring Controller Design for an Industrial Biaxial Precision Gantry. IEEE/ASME Transactions on Mechatronics, 2010, 15, 728-735.	3.7	78

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37	A Globally Stable High-Performance Adaptive Robust Control Algorithm With Input Saturation for Precision Motion Control of Linear Motor Drive Systems. IEEE/ASME Transactions on Mechatronics, 2007, 12, 198-207.	3.7	75
38	Global Task Coordinate Frame-Based Contouring Control of Linear-Motor-Driven Biaxial Systems With Accurate Parameter Estimations. IEEE Transactions on Industrial Electronics, 2011, 58, 5195-5205.	5.2	74
39	Teleoperation of a Mobile Robot Using a Force-Reflection Joystick With Sensing Mechanism of Rotating Magnetic Field. IEEE/ASME Transactions on Mechatronics, 2010, 15, 17-26.	3.7	73
40	Performance-Oriented Adaptive Robust Control of a Class of Nonlinear Systems Preceded by Unknown Dead Zone With Comparative Experimental Results. IEEE/ASME Transactions on Mechatronics, 2013, 18, 178-189.	3.7	73
41	Robust Control for Static Loading of Electro-hydraulic Load Simulator with Friction Compensation. Chinese Journal of Aeronautics, 2012, 25, 954-962.	2.8	71
42	Development of Pump and Valves Combined Hydraulic System for Both High Tracking Precision and High Energy Efficiency. IEEE Transactions on Industrial Electronics, 2019, 66, 7189-7198.	5.2	71
43	Energy-Saving Adaptive Robust Control of a Hydraulic Manipulator Using Five Cartridge Valves With an Accumulator. IEEE Transactions on Industrial Electronics, 2014, 61, 7046-7054.	5.2	70
44	A Two-Loop Performance-Oriented Tip-Tracking Control of a Linear-Motor-Driven Flexible Beam System With Experiments. IEEE Transactions on Industrial Electronics, 2013, 60, 1011-1022.	5.2	67
45	Adaptive Robust Cascade Force Control of 1-DOF Hydraulic Exoskeleton for Human Performance Augmentation. IEEE/ASME Transactions on Mechatronics, 2017, 22, 589-600.	3.7	66
46	Adaptive Robust Repetitive Control of an Industrial Biaxial Precision Gantry for Contouring Tasks. IEEE Transactions on Control Systems Technology, 2011, 19, 1559-1568.	3.2	65
47	Model-Based Coordinated Control of Four-Wheel Independently Driven Skid Steer Mobile Robot with Wheel-Ground Interaction and Wheel Dynamics. IEEE Transactions on Industrial Informatics, 2019, 15, 1742-1752.	7.2	63
48	Advanced motion control: From classical PID to nonlinear adaptive robust control. , 2010, , .		62
49	Integrated direct/indirect adaptive robust contouring control of a biaxial gantry with accurate parameter estimations. Automatica, 2010, 46, 701-707.	3.0	61
50	Advanced Valves and Pump Coordinated Hydraulic Control Design to Simultaneously Achieve High Accuracy and High Efficiency. IEEE Transactions on Control Systems Technology, 2021, 29, 236-248.	3.2	61
51	Integrated Direct/Indirect Adaptive Robust Posture Trajectory Tracking Control of a Parallel Manipulator Driven by Pneumatic Muscles. IEEE Transactions on Control Systems Technology, 2009, 17, 576-588.	3.2	59
52	Control of cable actuated devices using smooth backlash inverse. , 2010, , .		59
53	Precision Motion Control of a Servomotor-Pump Direct-Drive Electrohydraulic System With a Nonlinear Pump Flow Mapping. IEEE Transactions on Industrial Electronics, 2020, 67, 8638-8648.	5.2	58
54	Desired Compensation Adaptive Robust Control. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2009, 131, .	0.9	57

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55	Global stabilization of a chain of integrators with input saturation and disturbances: A new approach. <i>Automatica</i> , 2012, 48, 1389-1396.	3.0	57
56	Nonlinear adaptive robust backstepping force control of hydraulic load simulator: Theory and experiments. <i>Journal of Mechanical Science and Technology</i> , 2014, 28, 1499-1507.	0.7	50
57	Fast and Accurate Motion Tracking of a Linear Motor System Under Kinematic and Dynamic Constraints: An Integrated Planning and Control Approach. <i>IEEE Transactions on Control Systems Technology</i> , 2021, 29, 804-811.	3.2	48
58	Multirate Adaptive Robust Control for Discrete-Time Non-Minimum Phase Systems and Application to Linear Motors. <i>IEEE/ASME Transactions on Mechatronics</i> , 2005, 10, 371-377.	3.7	47
59	Variable structure adaptive motion and force control of robot manipulators. <i>Automatica</i> , 1994, 30, 1473-1477.	3.0	44
60	Adaptive Control of Robot Manipulators in Constrained Motion Controller Design. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME</i> , 1995, 117, 320-328.	0.9	43
61	Adaptive Robust Synchronization Control of a Dual-Linear-Motor-Driven Gantry With Rotational Dynamics and Accurate Online Parameter Estimation. <i>IEEE Transactions on Industrial Informatics</i> , 2018, 14, 3013-3022.	7.2	42
62	Accurate Motion Control of a Direct-Drive Hydraulic System With an Adaptive Nonlinear Pump Flow Compensation. <i>IEEE/ASME Transactions on Mechatronics</i> , 2021, 26, 2593-2603.	3.7	39
63	Unified formulation of variable structure control schemes for robot manipulators. <i>IEEE Transactions on Automatic Control</i> , 1994, 39, 371-376.	3.6	38
64	Development of a Passive Compliant Mechanism for Measurement of Micro/Nanoscale Planar 3-DOF Motions. <i>IEEE/ASME Transactions on Mechatronics</i> , 2016, 21, 1222-1232.	3.7	38
65	Energy Saving Motion Control of Independent Metering Valves and Pump Combined Hydraulic System. <i>IEEE/ASME Transactions on Mechatronics</i> , 2019, 24, 1909-1920.	3.7	38
66	Observer-Based Adaptive Robust Control of Friction Stir Welding Axial Force. <i>IEEE/ASME Transactions on Mechatronics</i> , 2011, 16, 1032-1039.	3.7	36
67	Performance-Oriented Coordinated Adaptive Robust Control for Four-Wheel Independently Driven Skid Steer Mobile Robot. <i>IEEE Access</i> , 2017, 5, 19048-19057.	2.6	36
68	Precision Motion Control of a 6-DoFs Industrial Robot With Accurate Payload Estimation. <i>IEEE/ASME Transactions on Mechatronics</i> , 2020, 25, 1821-1829.	3.7	35
69	Observer-based adaptive robust control of a class of nonlinear systems with dynamic uncertainties. <i>International Journal of Robust and Nonlinear Control</i> , 2001, 11, 335-356.	2.1	33
70	Integrated direct/indirect adaptive robust control of SISO nonlinear systems in semi-strict feedback form. , 0, , .		33
71	Modeling of a closed loop cable-conduit transmission system. , 2008, , .		33
72	Decoupled Torque Control of Series Elastic Actuator With Adaptive Robust Compensation of Time-Varying Load-Side Dynamics. <i>IEEE Transactions on Industrial Electronics</i> , 2020, 67, 5604-5614.	5.2	33

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73	Automated onboard modeling of cartridge valve flow mapping. IEEE/ASME Transactions on Mechatronics, 2006, 11, 381-388.	3.7	32
74	Adaptive robust torque control of electric load simulator with strong position coupling disturbance. International Journal of Control, Automation and Systems, 2013, 11, 325-332.	1.6	27
75	Modeling and Synchronization Control of a Dual Drive Industrial Gantry Stage. IEEE/ASME Transactions on Mechatronics, 2018, 23, 2940-2951.	3.7	27
76	Modeling and cancellation of pivot nonlinearity in hard disk drives. IEEE Transactions on Magnetics, 2002, 38, 3560-3565.	1.2	26
77	Non-linear sliding mode control of the lower extremity exoskeleton based on human-robot cooperation. International Journal of Advanced Robotic Systems, 2016, 13, 172988141666278.	1.3	26
78	Model based fault detection of an electro-hydraulic cylinder. , 0, , .		25
79	Exponential Stabilization of Fully Actuated Planar Bipedal Robotic Walking With Global Position Tracking Capabilities. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2018, 140, .	0.9	25
80	Adaptive robust control of linear motor systems with dynamic friction compensation using modified LuGre Model. , 2008, , .		24
81	Unified Motion/Force/Impedance Control for Manipulators in Unknown Contact Environments Based on Robust Model-Reaching Approach. IEEE/ASME Transactions on Mechatronics, 2021, 26, 1905-1913.	3.7	24
82	Adaptive Robust Motion and Force Tracking Control of Robot Manipulators in Contact With Compliant Surfaces With Unknown Stiffness. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 1998, 120, 232-240.	0.9	23
83	A performance oriented multi-loop constrained adaptive robust tracking control of one-degree-of-freedom mechanical systems: Theory and experiments. Automatica, 2014, 50, 1143-1150.	3.0	23
84	An Improved Online Trajectory Planner With Stability-Guaranteed Critical Test Curve Algorithm for Generalized Parametric Constraints. IEEE/ASME Transactions on Mechatronics, 2018, 23, 2459-2469.	3.7	23
85	Energy-saving and accurate motion control of a hydraulic actuator with uncertain negative loads. Chinese Journal of Aeronautics, 2021, 34, 253-264.	2.8	23
86	Neural network adaptive robust control with application to precision motion control of linear motors. International Journal of Adaptive Control and Signal Processing, 2001, 15, 837-864.	2.3	22
87	Reaction force estimation of surgical robot instrument using perturbation observer with SMCSPO algorithm. , 2010, , .		22
88	Output feedback based adaptive robust fault-tolerant control for a class of uncertain nonlinear systems. Journal of Systems Engineering and Electronics, 2011, 22, 38-51.	1.1	22
89	Adaptive robust contour tracking of machine tool feed drive systems-a task coordinate frame approach. , 1997, , .		21
90	Output Feedback Adaptive Robust Control of Uncertain Linear Systems With Disturbances. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2006, 128, 938.	0.9	21

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91	An adaptive robust observer for velocity estimation in an electro-hydraulic system. International Journal of Adaptive Control and Signal Processing, 2012, 26, 1076-1089.	2.3	21
92	Optimization-based motion planning of mobile manipulator with high degree of kinematic redundancy. International Journal of Intelligent Robotics and Applications, 2019, 3, 115-130.	1.6	21
93	Adaptive robust precision motion control of linear motors with ripple force compensations: theory and experiments. , 0, , .		20
94	Accommodation of unknown actuator faults using output feedback-based adaptive robust control. International Journal of Adaptive Control and Signal Processing, 2011, 25, 965-982.	2.3	20
95	Precision Motion Control of an Independent Metering Hydraulic System With Nonlinear Flow Modeling and Compensation. IEEE Transactions on Industrial Electronics, 2022, 69, 7088-7098.	5.2	19
96	Nonlinear adaptive robust control of electro-hydraulic servo systems with discontinuous projections. , 0, , .		18
97	Nonlinear adaptive robust observer design for a class of nonlinear systems. , 0, , .		18
98	High-performance adaptive robust control with balanced torque allocation for the over-actuated cutter-head driving system in tunnel boring machine. Mechatronics, 2017, 46, 168-176.	2.0	18
99	Precision Cascade Force Control of Multi-DOF Hydraulic Leg Exoskeleton. IEEE Access, 2018, 6, 8574-8583.	2.6	18
100	Modular Development of Master-Slave Asymmetric Teleoperation Systems With a Novel Workspace Mapping Algorithm. IEEE Access, 2018, 6, 15356-15364.	2.6	18
101	Observer based coordinated adaptive robust control of robot manipulators driven by single-rod hydraulic actuators. , 0, , .		17
102	Energy-saving control of hydraulic systems with novel programmable valves. , 0, , .		17
103	Smooth robust adaptive sliding mode control of manipulators with guaranteed transient performance. , 0, , .		15
104	High performance swing velocity tracking control of hydraulic excavators. , 1998, , .		15
105	Adaptive robust control of nonlinear systems with dynamic uncertainties. International Journal of Adaptive Control and Signal Processing, 2009, 23, 353-377.	2.3	15
106	Experimental investigation on high-performance coordinated motion control of high-speed biaxial systems for contouring tasks. International Journal of Machine Tools and Manufacture, 2011, 51, 677-686.	6.2	15
107	A General Online Trajectory Planning Framework in the Case of Desired Function Unknown in Advance. IEEE Transactions on Industrial Informatics, 2019, 15, 2753-2762.	7.2	15
108	Adaptive robust control of mechanical systems with nonlinear dynamic friction compensation. , 2000, , .		14

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109	Global stabilization of a class of uncertain systems with saturated adaptive robust control. , 0, , .		14
110	Adaptive robust control of linear electrical loading system with dynamic friction compensation. , 2010, , .		13
111	Dual drive system modeling and analysis for synchronous control of an H-type gantry. , 2015, , .		13
112	Direct Optimization Based Compensation Adaptive Robust Control of Nonlinear Systems With State and Input Constraints. IEEE Transactions on Industrial Informatics, 2021, 17, 5441-5449.	7.2	13
113	Adaptive robust synchronous control with dynamic thrust allocation of dual drive gantry stage. , 2014, , .		12
114	Identification and adaptive robust precision motion control of systems with nonlinear friction. Nonlinear Dynamics, 2019, 95, 995-1007.	2.7	12
115	Neural network-based adaptive robust control of a class of nonlinear systems in normal form. , 2000, , .		11
116	Energy-saving adaptive robust motion control of single-rod hydraulic cylinders with programmable valves. , 2002, , .		11
117	Multi-Objective Optimization of Tip Tracking Control Using LMI. , 2005, , 1533.		11
118	Modeling and Simulation of a Modern PEM Fuel Cell System. , 2006, , 133.		11
119	A two-loop contour tracking control for biaxial servo systems with constraints and uncertainties. , 2013, , .		11
120	Modeling and cancellation of pivot nonlinearity in hard disk drive. , 2002, , .		10
121	A globally stable high performance adaptive robust control algorithm with input saturation for precision motion control of linear motor drive system. , 0, , .		10
122	Development of parallel-connected pump"valve-coordinated control unit with improved performance and efficiency. Mechatronics, 2020, 70, 102419.	2.0	10
123	Unified Method for Task-Space Motion/Force/Impedance Control of Manipulator With Unknown Contact Reaction Strategy. IEEE Robotics and Automation Letters, 2022, 7, 1478-1485.	3.3	10
124	Robust Model-Based Fault Detection Using Adaptive Robust Observers. , 0, , .		9
125	Output Feedback Neural Network Adaptive Robust Control With Application to Linear Motor Drive System. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2006, 128, 227.	0.9	9
126	Adaptive Robust Posture Control of a Pneumatic Muscles Driven Parallel Manipulator with Redundancy. Proceedings of the American Control Conference, 2007, , .	0.0	9

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127	Adaptive robust control for nonlinear system with input backlash or backlash-like hysteresis. , 2009, ,		9
128	Feasible Center of Mass Dynamic Manipulability of humanoid robots. , 2015, , .		9
129	Adaptive robust wing trajectory control and force generation of flapping wing MAV. , 2015, , .		9
130	Adaptive thrust allocation based synchronization control of a dual drive gantry stage. Mechatronics, 2018, 54, 68-77.	2.0	9
131	Output feedback adaptive robust control of uncertain linear systems with large disturbances. , 1999, ,		8
132	Fuzzy adaptive robust control of a class of nonlinear systems. , 2001, , .		8
133	Adaptive robust precision motion control of high-speed linear motors with on-line cogging force compensations. , 2007, , .		8
134	High performance adaptive robust control for nonlinear system with unknown input backlash. , 2009, , .		8
135	Coordinated adaptive robust contour tracking of linear-motor-driven tables in task space. , 0, , .		7
136	Nonlinear model based coordinated adaptive robust control of electro-hydraulic robotic arms via overparametrizing method. , 0, , .		7
137	Coordinate Control of Energy-Saving Programmable Valves. , 2003, , 123.		7
138	An Adaptive Robust Scheme for Multiple Actuator Fault Accommodation. , 2008, , .		7
139	Global stabilization of a chain of integrators with input saturation and disturbances. , 2011, , .		7
140	Adaptive Robust Motion Control of a Pump Direct Drive Electro-hydraulic System with Meter-Out Pressure Regulation. IFAC-PapersOnLine, 2020, 53, 9005-9010.	0.5	7
141	Robust adaptive nonlinear control with guaranteed transient performance. , 0, , .		6
142	Observer based adaptive robust control of a class of nonlinear systems with dynamic uncertainties. , 0, , .		6
143	Observer-based adaptive robust control of friction stir welding axial force. , 2010, , .		6
144	Adaptive Robust Synchronous Motion Control of Dual Parallel Linear Motor Driven Stage. , 2012, , .		6

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145	Adaptive Robust Control of a Pump Control Hydraulic System. , 2017, , .		6
146	High performance robust motion control of machine tools: an adaptive robust control approach and comparative experiments. , 1997, , .		5
147	Adaptive robust repetitive control of a class of nonlinear systems in normal form with applications to motion control of linear motors. , 0, , .		5
148	A globally stable saturated desired compensation adaptive robust control for linear motor systems with comparative experiments. , 2006, , .		5
149	Neural Network Adaptive Robust Control Of Siso Nonlinear Systems In A Normal Form. Asian Journal of Control, 2001, 3, 96-110.	1.9	5
150	Coordinated contouring controller design for an industrial biaxial linear motor driven gantry. , 2009, , .		5
151	Adaptive robust control of a class of nonlinear systems in semi-strict feedback form with non-uniformly detectable unmeasured internal states. International Journal of Adaptive Control and Signal Processing, 2010, 24, 961-981.	2.3	5
152	Experimental design for identification of nonlinear systems with bounded uncertainties. , 2010, , .		5
153	System identification, modeling and precision motion control of a linear motor drive stage. , 2010, , .		5
154	Adaptive robust actuator fault-tolerant control in presence of input saturation. , 2011, , .		5
155	Dual loop control of cable-conduit actuated devices. , 2012, , .		5
156	Desired compensation adaptive robust repetitive control of a multi-DoFs industrial robot. ISA Transactions, 2022, 128, 556-564.	3.1	5
157	Vsc motion and force control of robot manipulators in the presence of environmental constraint uncertainties. Journal of Field Robotics, 1994, 11, 503-515.	0.7	4
158	Adaptive robust control of MIMO nonlinear systems with guaranteed transient performance. , 0, , .		4
159	Adaptive robust precision motion control of linear motors with negligible electrical dynamics: theory and experiments. , 2000, , .		4
160	Adaptive robust control of a class of uncertain nonlinear systems with unknown sinusoidal disturbances. , 2008, , .		4
161	Integrated direct/indirect adaptive robust control of a class of nonlinear systems preceded by unknown dead-zone nonlinearity. , 2009, , .		4
162	Globally stable fast tracking control of a chain of integrators with input saturation and disturbances: A holistic approach. , 2011, , .		4

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163	Modeling and nonlinear computed torque control of ship-mounted mobile satellite communication system. <i>International Journal of Automation and Computing</i> , 2012, 9, 459-466.	4.5	4
164	Analysis and compensation of nonlinear friction effect on frequency identification. , 2015, , .		4
165	Desired compensation neural network adaptive robust control of an industrial linear motor motion system with comparative experimental investigation. , 2016, , .		4
166	Hybrid Reference Governor-Based Adaptive Robust Control of a Linear Motor Driven System. , 2021, , .		4
167	Geometric Adaptive Robust Hierarchical Control for Quadrotors With Aerodynamic Damping and Complete Inertia Compensation. <i>IEEE Transactions on Industrial Electronics</i> , 2022, 69, 13213-13224.	5.2	4
168	Programmable valves: a solution to bypass deadband problem of electro-hydraulic systems. , 2004, , .		3
169	On-Board System Identification of Systems With Unknown Input Nonlinearity and System Parameters. , 2005, , 1079.		3
170	Robust output feedback stabilization of a class of nonminimum phase nonlinear systems. , 2006, , .		3
171	Using Control Theory for Load Shedding in Data Stream Management. , 2007, , .		3
172	Fault detection for nonlinear systems in presence of input unmodeled dynamics. , 2007, , .		3
173	Adaptive Robust Control for a Class of Nonlinear Uncertain System With Unknown Input Backlash. , 2009, , .		3
174	Characterization and Attenuation of Sandwiched Deadband Problem Using Describing Function Analysis and Application to Electrohydraulic Systems Controlled by Closed-Center Valves. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME</i> , 2009, 131, .	0.9	3
175	Adaptive robust precision motion control of linear motors with electromagnetic nonlinearity compensation. , 2011, , .		3
176	Adaptive robust control of mobile satellite communication system with disturbance and model uncertainties. <i>Journal of Systems Engineering and Electronics</i> , 2012, 23, 761-767.	1.1	3
177	Adaptive control for nonlinear system with unknown hysteresis. , 2012, , .		3
178	Time-dependent orbital stabilization of underactuated bipedal walking. , 2017, , .		3
179	Adaptive Robust Control of a 7-DoFs Teleoperation Robot System With Payload Variations and Disturbances. , 2018, , .		3
180	A Telepresence-Guaranteed Control Scheme for Teleoperation Applications of Transferring Weight-Unknown Objects. <i>IEEE/CAA Journal of Automatica Sinica</i> , 2022, 9, 1015-1025.	8.5	3

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181	Neural network adaptive robust control of nonlinear systems in semi-strict feedback form. , 2001, , .		2
182	Indirect adaptive robust control of electro-hydraulic systems driven by single-rod hydraulic actuator. , 0, , .		2
183	High performance motion control of linear motors based on multirate adaptive robust control. , 0, , .		2
184	Adaptive robust control: theory and applications lap integrated design of intelligent and precision mechatronic systems. , 0, , .		2
185	Adaptive robust control of programmable valves with manufacturer supplied flow mapping only. , 2004, , .		2
186	Integrated Direct/Indirect Adaptive Robust Control of Multi-DOF Hydraulic Robotic Arms. , 2007, , 841.		2
187	Accommodation of partial actuator faults using output feedback based adaptive robust control. , 2008, , .		2
188	Contouring control of biaxial systems based on a new task coordinate frame. , 2010, , .		2
189	Adaptive robust tip tracking control of a class of flexible beams. , 2012, , .		2
190	Adaptive robust precision motion control of linear motors with high frequency flexible modes. , 2012, , .		2
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