

Bin Yao

List of Publications by Year in descending order

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229
papers

9,173
citations

34076

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88
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all docs

229
docs citations

229
times ranked

3626
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	Desired compensation adaptive robust repetitive control of a multi-DoFs industrial robot. ISA Transactions, 2022, 128, 556-564.	3.1	5
3	Geometric Adaptive Robust Hierarchical Control for Quadrotors With Aerodynamic Damping and Complete Inertia Compensation. IEEE Transactions on Industrial Electronics, 2022, 69, 13213-13224.	5.2	4
4	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
5	A Telepresence-Guaranteed Control Scheme for Teleoperation Applications of Transferring Weight-Unknown Objects. IEEE/CAA Journal of Automatica Sinica, 2022, 9, 1015-1025.	8.5	3
6	Global-Position Tracking Control for Three-Dimensional Bipedal Robots Via Virtual Constraint Design and Multiple Lyapunov Analysis. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2022, 144, .	0.9	2
7	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
8	Fast and Accurate Motion Tracking of a Linear Motor System Under Kinematic and Dynamic Constraints: An Integrated Planning and Control Approach. IEEE Transactions on Control Systems Technology, 2021, 29, 804-811.	3.2	48
9	Precision Motion Control of Constrained SISO Nonlinear System via Direct Optimized Compensation. , 2021, , .		1
10	Hybrid Reference Governor-Based Adaptive Robust Control of a Linear Motor Driven System. , 2021, , .		4
11	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
12	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
13	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
14	Accurate Motion Control of a Direct-Drive Hydraulic System With an Adaptive Nonlinear Pump Flow Compensation. IEEE/ASME Transactions on Mechatronics, 2021, 26, 2593-2603.	3.7	39
15	Adaptive Fuzzy Backstepping Control for Stable Nonlinear Bilateral Teleoperation Manipulators With Enhanced Transparency Performance. IEEE Transactions on Industrial Electronics, 2020, 67, 746-756.	5.2	154
16	Integrated Coordinated/Synchronized Contouring Control of a Dual-Linear-Motor-Driven Gantry. IEEE Transactions on Industrial Electronics, 2020, 67, 3944-3954.	5.2	85
17	Decoupled Torque Control of Series Elastic Actuator With Adaptive Robust Compensation of Time-Varying Load-Side Dynamics. IEEE Transactions on Industrial Electronics, 2020, 67, 5604-5614.	5.2	33
18	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

#	ARTICLE	IF	CITATIONS
19	RBF-Neural-Network-Based Adaptive Robust Control for Nonlinear Bilateral Teleoperation Manipulators With Uncertainty and Time Delay. IEEE/ASME Transactions on Mechatronics, 2020, 25, 906-918.	3.7	158
20	Development of parallel-connected pump"valve-coordinated control unit with improved performance and efficiency. Mechatronics, 2020, 70, 102419.	2.0	10
21	Precision Motion Control of a 6-DoFs Industrial Robot With Accurate Payload Estimation. IEEE/ASME Transactions on Mechatronics, 2020, 25, 1821-1829.	3.7	35
22	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
23	Energy Saving Motion Control of Independent Metering Valves and Pump Combined Hydraulic System. IEEE/ASME Transactions on Mechatronics, 2019, 24, 1909-1920.	3.7	38
24	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
25	Constrained Time-Optimal Motion Control of a Linear Motor Driven System: Theory and Experiments. , 2019, , .		0
26	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
27	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
28	Identification and adaptive robust precision motion control of systems with nonlinear friction. Nonlinear Dynamics, 2019, 95, 995-1007.	2.7	12
29	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
30	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
31	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
32	Precision Cascade Force Control of Multi-DOF Hydraulic Leg Exoskeleton. IEEE Access, 2018, 6, 8574-8583.	2.6	18
33	Adaptive Robust Synchronization Control of a Dual-Linear-Motor-Driven Gantry With Rotational Dynamics and Accurate Online Parameter Estimation. IEEE Transactions on Industrial Informatics, 2018, 14, 3013-3022.	7.2	42
34	Modular Development of Master-Slave Asymmetric Teleoperation Systems With a Novel Workspace Mapping Algorithm. IEEE Access, 2018, 6, 15356-15364.	2.6	18
35	High Precision Energy Saving Motion Control of Hydraulic Cylinder Based on Integration of Valves and Pump. , 2018, , .		1
36	Online Trajectory Planning based Motion Control of a Teleoperation Robot System*. , 2018, , .		0

#	ARTICLE	IF	CITATIONS
37	Adaptive Robust Control of a 7-DoFs Teleoperation Robot System With Payload Variations and Disturbances. , 2018, , .		3
38	Modeling and Synchronization Control of a Dual Drive Industrial Gantry Stage. IEEE/ASME Transactions on Mechatronics, 2018, 23, 2940-2951.	3.7	27
39	Optimization of Output Functions with Nonholonomic Virtual Constraints in Underactuated Bipedal Walking Control. , 2018, , .		1
40	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
41	Adaptive thrust allocation based synchronization control of a dual drive gantry stage. Mechatronics, 2018, 54, 68-77.	2.0	9
42	High precision and high efficiency control of pump and valves combined hydraulic system. , 2018, , .		1
43	Performance-Oriented Coordinated Adaptive Robust Control for Four-Wheel Independently Driven Skid Steer Mobile Robot. IEEE Access, 2017, 5, 19048-19057.	2.6	36
44	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
45	Adaptive robust control of skid steer mobile robot with independent driving torque allocation. , 2017, , .		2
46	Time-dependent orbital stabilization of underactuated bipedal walking. , 2017, , .		3
47	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
48	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
49	Adaptive Robust Control of a Pump Control Hydraulic System. , 2017, , .		6
50	Modeling and synchronized motion control of a dual-linear-motor-driven gantry by considering rotational dynamics. , 2017, , .		2
51	Indirect output voltage regulation of DC-DC boost converter with accurate parameter estimation. , 2017, , .		1
52	Newton-AGTCF reference trajectory modification scheme for precision biaxial contouring motion control. , 2017, , .		0
53	Desired compensation neural network adaptive robust control of an industrial linear motor motion system with comparative experimental investigation. , 2016, , .		4
54	Cascade force control of lower limb hydraulic exoskeleton for human performance augmentation. , 2016, , .		2

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55	Adaptive robust motion control of uncertain manipulators through immersion and invariance adaptive visual servoing. , 2016, , .		2
56	Modeling and performance analysis of a magnetorheological fluid actuation system. , 2016, , .		1
57	Development of an end-effector mounted tracking methodology for feedback control of high precision 3-DOF planar motions. , 2016, , .		0
58	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
59	Precision NNLC motion controller design for industrial mechatronic systems under complicated disturbances: A case study with comparative experiments. , 2016, , .		0
60	Development of a Passive Compliant Mechanism for Measurement of Micro/Nanoscale Planar 3-DOF Motions. IEEE/ASME Transactions on Mechatronics, 2016, 21, 1222-1232.	3.7	38
61	Feasible Center of Mass Dynamic Manipulability of humanoid robots. , 2015, , .		9
62	Analysis and compensation of nonlinear friction effect on frequency identification. , 2015, , .		4
63	Dual drive system modeling and analysis for synchronous control of an H-type gantry. , 2015, , .		13
64	A 3-level adaptive robust control strategy for autonomous mobile robots. , 2015, , .		1
65	Adaptive robust wing trajectory control and force generation of flapping wing MAV. , 2015, , .		9
66	μ -Synthesis-Based Adaptive Robust Control of Linear Motor Driven Stages With High-Frequency Dynamics: A Case Study. IEEE/ASME Transactions on Mechatronics, 2015, 20, 1482-1490.	3.7	223
67	Integrated design of speed sensorless control algorithms for induction motors. , 2015, , .		1
68	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
69	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
70	Adaptive robust synchronous control with dynamic thrust allocation of dual drive gantry stage. , 2014, , .		12
71	Nonlinear adaptive robust backstepping force control of hydraulic load simulator: Theory and experiments. Journal of Mechanical Science and Technology, 2014, 28, 1499-1507.	0.7	50
72	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

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73	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
74	Adaptive Robust Vibration Control of Full-Car Active Suspensions With Electrohydraulic Actuators. IEEE Transactions on Control Systems Technology, 2013, 21, 2417-2422.	3.2	209
75	Accurate Motion Control of Linear Motors With Adaptive Robust Compensation of Nonlinear Electromagnetic Field Effect. IEEE/ASME Transactions on Mechatronics, 2013, 18, 1122-1129.	3.7	204
76	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
77	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
78	A two-loop contour tracking control for biaxial servo systems with constraints and uncertainties. , 2013, , .		11
79	Adaptive robust tip tracking control of a class of flexible beams. , 2012, , .		2
80	Fault detection and accommodation of a class of nonlinear systems. , 2012, , .		0
81	Dual loop control of cable-conduit actuated devices. , 2012, , .		5
82	Adaptive Robust Synchronous Motion Control of Dual Parallel Linear Motor Driven Stage. , 2012, , .		6
83	An Orthogonal Global Task Coordinate Frame for Contouring Control of Biaxial Systems. IEEE/ASME Transactions on Mechatronics, 2012, 17, 622-634.	3.7	102
84	Adaptive robust control of mobile satellite communication system with disturbance and model uncertainties. Journal of Systems Engineering and Electronics, 2012, 23, 761-767.	1.1	3
85	Adaptive control for nonlinear system with unknown hysteresis. , 2012, , .		3
86	Modeling and nonlinear computed torque control of ship-mounted mobile satellite communication system. International Journal of Automation and Computing, 2012, 9, 459-466.	4.5	4
87	Robust Control for Static Loading of Electro-hydraulic Load Simulator with Friction Compensation. Chinese Journal of Aeronautics, 2012, 25, 954-962.	2.8	71
88	Adaptive robust precision motion control of linear motors with high frequency flexible modes. , 2012, , .		2
89	Global stabilization of a chain of integrators with input saturation and disturbances: A new approach. Automatica, 2012, 48, 1389-1396.	3.0	57
90	Nonlinear Adaptive Robust Force Control of Hydraulic Load Simulator. Chinese Journal of Aeronautics, 2012, 25, 766-775.	2.8	98

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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	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
93	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
94	Indirect Adaptive Robust Control of Hydraulic Manipulators With Accurate Parameter Estimates. IEEE Transactions on Control Systems Technology, 2011, 19, 567-575.	3.2	197
95	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
96	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
97	Integrated Direct/Indirect Adaptive Robust Control of Hydraulic Manipulators With Valve Deadband. IEEE/ASME Transactions on Mechatronics, 2011, 16, 707-715.	3.7	157
98	Observer-Based Adaptive Robust Control of Friction Stir Welding Axial Force. IEEE/ASME Transactions on Mechatronics, 2011, 16, 1032-1039.	3.7	36
99	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
100	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
101	Adaptive robust actuator fault-tolerant control in presence of input saturation. , 2011, , .		5
102	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
103	Globally stable fast tracking control of a chain of integrators with input saturation and disturbances: A holistic approach. , 2011, , .		4
104	High-performance coordinated motion control of high-speed biaxial systems for contouring tasks with comparative experimental investigations. , 2011, , .		0
105	Adaptive robust precision motion control of linear motors with electromagnetic nonlinearity compensation. , 2011, , .		3
106	Global TCF based contouring controller design for an industrial biaxial precision gantry with accurate parameter estimations. , 2011, , .		0
107	Global stabilization of a chain of integrators with input saturation and disturbances. , 2011, , .		7
108	High bandwidth adaptive robust control for hydraulic rotary actuator. , 2011, , .		1

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109	Coordinated Adaptive Robust Contouring Controller Design for an Industrial Biaxial Precision Gantry. IEEE/ASME Transactions on Mechatronics, 2010, 15, 728-735.	3.7	78
110	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
111	Integrated direct/indirect adaptive robust contouring control of a biaxial gantry with accurate parameter estimations. Automatica, 2010, 46, 701-707.	3.0	61
112	Modeling of Transmission Characteristics Across a Cable-Conduit System. IEEE Transactions on Robotics, 2010, 26, 914-924.	7.3	122
113	Contouring control of biaxial systems based on a new task coordinate frame. , 2010, , .		2
114	Reaction force estimation of surgical robot instrument using perturbation observer with SMCSPO algorithm. , 2010, , .		22
115	Observer-based adaptive robust control of friction stir welding axial force. , 2010, , .		6
116	Control of cable actuated devices using smooth backlash inverse. , 2010, , .		59
117	Experimental design for identification of nonlinear systems with bounded uncertainties. , 2010, , .		5
118	A case study for adaptive robust precision motion control of systems preceded by unknown dead-zones with comparative experiments. , 2010, , .		1
119	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
120	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
121	System identification, modeling and precision motion control of a linear motor drive stage. , 2010, , .		5
122	Advanced motion control: From classical PID to nonlinear adaptive robust control. , 2010, , .		62
123	Adaptive robust control of linear electrical loading system with dynamic friction compensation. , 2010, , .		13
124	Adaptive Robust Control for a Class of Nonlinear Uncertain System With Unknown Input Backlash. , 2009, , .		3
125	High performance adaptive robust control for nonlinear system with unknown input backlash. , 2009, , .		8
126	Adaptive robust control of a class of nonlinear systems in semi-strict feedback form with non-uniformly detectable unmeasured internal states. , 2009, , .		0

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127	Integrated direct/indirect adaptive robust control of a class of nonlinear systems preceded by unknown dead-zone nonlinearity. , 2009, , .		4
128	Coordinated contouring controller design for an industrial biaxial linear motor driven gantry. , 2009, , .		5
129	Set-membership identification based adaptive robust control of systems with unknown parameter bounds. , 2009, , .		1
130	Characterization and Attenuation of Sandwiched Deadband Problem Using Describing Function Analysis and Application to Electrohydraulic Systems Controlled by Closed-Center Valves. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2009, 131, .	0.9	3
131	Desired Compensation Adaptive Robust Control. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2009, 131, .	0.9	57
132	Adaptive robust control of nonlinear systems with dynamic uncertainties. International Journal of Adaptive Control and Signal Processing, 2009, 23, 353-377.	2.3	15
133	Adaptive robust control of linear motors with dynamic friction compensation using modified LuGre model. Automatica, 2009, 45, 2890-2896.	3.0	157
134	Adaptive robust control for nonlinear system with input backlash or backlash-like hysteresis. , 2009, , .		9
135	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
136	Synchronization strategy research of pneumatic servo system based on separate control of meter-in and meter-out. , 2009, , .		1
137	An Output Feedback Based Adaptive Robust Fault Tolerant Control Scheme for a Class of Nonlinear Systems. , 2009, , .		1
138	Indirect Adaptive Robust Control of Uncertain Systems With Unknown Asymmetric Input Deadband Using a Smooth Inverse. , 2009, , .		0
139	Desired Compensation Adaptive Robust Contouring Control of an Industrial Biaxial Precision Gantry Subject to Cogging Forces. , 2009, , .		0
140	Adaptive robust posture control of a parallel manipulator driven by pneumatic muscles. Automatica, 2008, 44, 2248-2257.	3.0	126
141	Coordinate Control of Energy Saving Programmable Valves. IEEE Transactions on Control Systems Technology, 2008, 16, 34-45.	3.2	92
142	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
143	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
144	Adaptive Robust Precision Motion Control of a Piezoelectric Positioning Stage. IEEE Transactions on Control Systems Technology, 2008, 16, 1039-1046.	3.2	93

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145	Modeling of a closed loop cable-conduit transmission system. , 2008, , .		33
146	Adaptive robust control of linear motor systems with dynamic friction compensation using modified LuGre Model. , 2008, , .		24
147	Adaptive robust control of a class of uncertain nonlinear systems with unknown sinusoidal disturbances. , 2008, , .		4
148	Accommodation of partial actuator faults using output feedback based adaptive robust control. , 2008, , .		2
149	An Adaptive Robust Scheme for Multiple Actuator Fault Accommodation. , 2008, , .		7
150	Adaptive Robust Control of a Linear Motor Driven Precision Industrial Gantry With Improved Cogging Force Compensation. , 2008, , .		2
151	Using Control Theory for Load Shedding in Data Stream Management. , 2007, , .		3
152	Integrated Direct/Indirect Adaptive Robust Control of Multi-DOF Hydraulic Robotic Arms. , 2007, , 841.		2
153	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
154	Adaptive robust precision motion control of high-speed linear motors with on-line cogging force compensations. , 2007, , .		8
155	Adaptive Robust Posture Control of a Pneumatic Muscles Driven Parallel Manipulator with Redundancy. Proceedings of the American Control Conference, 2007, , .	0.0	9
156	Fault detection for nonlinear systems in presence of input unmodeled dynamics. , 2007, , .		3
157	A globally stable saturated desired compensation adaptive robust control for linear motor systems with comparative experiments. Automatica, 2007, 43, 1840-1848.	3.0	78
158	New Approach of Tracking Control for a Class of Non-Minimum Phase Linear Systems. , 2007, , .		0
159	Fault Detection for a Class of Nonlinear Systems in Presence of Unmodeled Dynamics and Parametric Uncertainties Using Adaptive Robust Observers. , 2007, , .		0
160	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
161	Automated onboard modeling of cartridge valve flow mapping. IEEE/ASME Transactions on Mechatronics, 2006, 11, 381-388.	3.7	32
162	Modeling and Simulation of a Modern PEM Fuel Cell System. , 2006, , 133.		11

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163	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
164	Robust output feedback stabilization of a class of nonminimum phase nonlinear systems. , 2006, , .		3
165	A globally stable saturated desired compensation adaptive robust control for linear motor systems with comparative experiments. , 2006, , .		5
166	On-Board System Identification of Systems With Unknown Input Nonlinearity and System Parameters. , 2005, , 1079.		3
167	Multi-Objective Optimization of Tip Tracking Control Using LMI. , 2005, , 1533.		11
168	Multirate Adaptive Robust Control for Discrete-Time Non-Minimum Phase Systems and Application to Linear Motors. IEEE/ASME Transactions on Mechatronics, 2005, 10, 371-377.	3.7	47
169	Adaptive Robust Repetitive Control of Piezoelectric Actuators. , 2005, , .		0
170	Programmable valves: a solution to bypass deadband problem of electro-hydraulic systems. , 2004, , .		3
171	Adaptive robust control of programmable valves with manufacturer supplied flow mapping only. , 2004, , .		2
172	Coordinate Control of Energy-Saving Programmable Valves. , 2003, , 123.		7
173	Modeling and cancellation of pivot nonlinearity in hard disk drive. , 2002, , .		10
174	Modeling and cancellation of pivot nonlinearity in hard disk drives. IEEE Transactions on Magnetics, 2002, 38, 3560-3565.	1.2	26
175	Energy-saving adaptive robust motion control of single-rod hydraulic cylinders with programmable valves. , 2002, , .		11
176	Adaptive robust motion control of linear motors for precision manufacturing. Mechatronics, 2002, 12, 595-616.	2.0	137
177	Adaptive robust precision motion control of linear motors with negligible electrical dynamics: theory and experiments. IEEE/ASME Transactions on Mechatronics, 2001, 6, 444-452.	3.7	272
178	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
179	Observer-based adaptive robust control of a class of nonlinear systems with dynamic uncertainties. International Journal of Robust and Nonlinear Control, 2001, 11, 335-356.	2.1	33
180	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

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181	Output feedback adaptive robust precision motion control of linear motors. Automatica, 2001, 37, 1029-1039.	3.0	121
182	Neural network adaptive robust control of nonlinear systems in semi-strict feedback form. Automatica, 2001, 37, 1149-1160.	3.0	138
183	Adaptive robust control of MIMO nonlinear systems in semi-strict feedback forms. Automatica, 2001, 37, 1305-1321.	3.0	313
184	Neural network adaptive robust control of nonlinear systems in semi-strict feedback form. , 2001, , .		2
185	Fuzzy adaptive robust control of a class of nonlinear systems. , 2001, , .		8
186	Output feedback neural network adaptive robust control of a class of SISO nonlinear systems. , 2001, , .		1
187	Neural Network Adaptive Robust Control Of Siso Nonlinear Systems In A Normal Form. Asian Journal of Control, 2001, 3, 96-110.	1.9	5
188	Adaptive robust control of mechanical systems with nonlinear dynamic friction compensation. , 2000, , .		14
189	Neural network-based adaptive robust control of a class of nonlinear systems in normal form. , 2000, , .		11
190	Adaptive robust precision motion control of linear motors with negligible electrical dynamics: theory and experiments. , 2000, , .		4
191	Adaptive robust motion control of single-rod hydraulic actuators: theory and experiments. IEEE/ASME Transactions on Mechatronics, 2000, 5, 79-91.	3.7	549
192	Output feedback adaptive robust control of uncertain linear systems with large disturbances. , 1999, , .		8
193	High performance swing velocity tracking control of hydraulic excavators. , 1998, , .		15
194	Implementation issues and experimental studies of adaptive robust controllers for robot manipulators. , 1998, , .		1
195	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
196	High performance robust motion control of machine tools: an adaptive robust control approach and comparative experiments. , 1997, , .		5
197	Adaptive robust contour tracking of machine tool feed drive systems-a task coordinate frame approach. , 1997, , .		21
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