

# Bin Yao

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

184  
papers

6,347  
citations

46  
h-index

76  
g-index

229  
ext. papers

7,870  
ext. citations

4.6  
avg, IF

6.41  
L-index

#	Paper	IF	Citations
184	Unified Method for Task-Space Motion/Force/Impedance Control of Manipulator With Unknown Contact Reaction Strategy. <i>IEEE Robotics and Automation Letters</i> , <b>2022</b> , 1-1	4.2	2
183	A Telepresence-Guaranteed Control Scheme for Teleoperation Applications of Transferring Weight-Unknown Objects. <i>IEEE/CAA Journal of Automatica Sinica</i> , <b>2022</b> , 9, 1015-1025	7	1
182	Geometric Adaptive Robust Hierarchical Control for Quadrotors with Aerodynamic Damping and Complete Inertia Compensation. <i>IEEE Transactions on Industrial Electronics</i> , <b>2021</b> , 1-1	8.9	0
181	Energy-saving and accurate motion control of a hydraulic actuator with uncertain negative loads. <i>Chinese Journal of Aeronautics</i> , <b>2021</b> , 34, 253-264	3.7	2
180	Advanced Valves and Pump Coordinated Hydraulic Control Design to Simultaneously Achieve High Accuracy and High Efficiency. <i>IEEE Transactions on Control Systems Technology</i> , <b>2021</b> , 29, 236-248	4.8	29
179	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> , <b>2021</b> , 29, 804-811	4.8	25
178	Precision Motion Control of Independent Metering Hydraulic System With Nonlinear Flow Modeling and Compensation. <i>IEEE Transactions on Industrial Electronics</i> , <b>2021</b> , 1-1	8.9	2
177	. <i>IEEE Transactions on Industrial Informatics</i> , <b>2021</b> , 17, 5441-5449	11.9	1
176	. <i>IEEE/ASME Transactions on Mechatronics</i> , <b>2021</b> , 26, 1905-1913	5.5	4
175	. <i>IEEE/ASME Transactions on Mechatronics</i> , <b>2020</b> , 25, 1821-1829	5.5	18
174	Accurate Motion Control of a Direct-drive Hydraulic System with an Adaptive Nonlinear Pump Flow Compensation. <i>IEEE/ASME Transactions on Mechatronics</i> , <b>2020</b> , 1-1	5.5	16
173	Adaptive Robust Motion Control of a Pump Direct Drive Electro-hydraulic System with Meter-Out Pressure Regulation. <i>IFAC-PapersOnLine</i> , <b>2020</b> , 53, 9005-9010	0.7	1
172	Precision Motion Control of a Servomotor-Pump Direct-Drive Electrohydraulic System With a Nonlinear Pump Flow Mapping. <i>IEEE Transactions on Industrial Electronics</i> , <b>2020</b> , 67, 8638-8648	8.9	33
171	RBF-Neural-Network-Based Adaptive Robust Control for Nonlinear Bilateral Teleoperation Manipulators With Uncertainty and Time Delay. <i>IEEE/ASME Transactions on Mechatronics</i> , <b>2020</b> , 25, 906-918	5.5	77
170	Development of parallel-connected pump/valve-coordinated control unit with improved performance and efficiency. <i>Mechatronics</i> , <b>2020</b> , 70, 102419	3	3
169	Adaptive Fuzzy Backstepping Control for Stable Nonlinear Bilateral Teleoperation Manipulators With Enhanced Transparency Performance. <i>IEEE Transactions on Industrial Electronics</i> , <b>2020</b> , 67, 746-756	8.9	92
168	Integrated Coordinated/Synchronized Contouring Control of a Dual-Linear-Motor-Driven Gantry. <i>IEEE Transactions on Industrial Electronics</i> , <b>2020</b> , 67, 3944-3954	8.9	57

167	Decoupled Torque Control of Series Elastic Actuator With Adaptive Robust Compensation of Time-Varying Load-Side Dynamics. <i>IEEE Transactions on Industrial Electronics</i> , <b>2020</b> , 67, 5604-5614	8.9	14
166	Energy Saving Motion Control of Independent Metering Valves and Pump Combined Hydraulic System. <i>IEEE/ASME Transactions on Mechatronics</i> , <b>2019</b> , 24, 1909-1920	5.5	22
165	Optimization-based motion planning of mobile manipulator with high degree of kinematic redundancy. <i>International Journal of Intelligent Robotics and Applications</i> , <b>2019</b> , 3, 115-130	1.7	10
164	A General Online Trajectory Planning Framework in the Case of Desired Function Unknown in Advance. <i>IEEE Transactions on Industrial Informatics</i> , <b>2019</b> , 15, 2753-2762	11.9	9
163	Development of Pump and Valves Combined Hydraulic System for Both High Tracking Precision and High Energy Efficiency. <i>IEEE Transactions on Industrial Electronics</i> , <b>2019</b> , 66, 7189-7198	8.9	52
162	Identification and adaptive robust precision motion control of systems with nonlinear friction. <i>Nonlinear Dynamics</i> , <b>2019</b> , 95, 995-1007	5	9
161	Model-Based Coordinated Control of Four-Wheel Independently Driven Skid Steer Mobile Robot with Wheel-Ground Interaction and Wheel Dynamics. <i>IEEE Transactions on Industrial Informatics</i> , <b>2019</b> , 15, 1742-1752	11.9	31
160	Exponential Stabilization of Fully Actuated Planar Bipedal Robotic Walking With Global Position Tracking Capabilities. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME</i> , <b>2018</b> , 140,	1.6	7
159	Advanced Synchronization Control of a Dual-Linear-Motor-Driven Gantry With Rotational Dynamics. <i>IEEE Transactions on Industrial Electronics</i> , <b>2018</b> , 65, 7526-7535	8.9	55
158	Precision Cascade Force Control of Multi-DOF Hydraulic Leg Exoskeleton. <i>IEEE Access</i> , <b>2018</b> , 6, 8574-8583	3.5	12
157	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> , <b>2018</b> , 14, 3013-3022	11.9	27
156	Modular Development of Master-Slave Asymmetric Teleoperation Systems With a Novel Workspace Mapping Algorithm. <i>IEEE Access</i> , <b>2018</b> , 6, 15356-15364	3.5	7
155	An Improved Online Trajectory Planner With Stability-Guaranteed Critical Test Curve Algorithm for Generalized Parametric Constraints. <i>IEEE/ASME Transactions on Mechatronics</i> , <b>2018</b> , 23, 2459-2469	5.5	17
154	Adaptive thrust allocation based synchronization control of a dual drive gantry stage. <i>Mechatronics</i> , <b>2018</b> , 54, 68-77	3	6
153	High precision and high efficiency control of pump and valves combined hydraulic system <b>2018</b> ,		1
152	Adaptive Robust Control of a 7-DoFs Teleoperation Robot System With Payload Variations and Disturbances <b>2018</b> ,		3
151	. <i>IEEE/ASME Transactions on Mechatronics</i> , <b>2018</b> , 23, 2940-2951	5.5	15
150	Performance-Oriented Coordinated Adaptive Robust Control for Four-Wheel Independently Driven Skid Steer Mobile Robot. <i>IEEE Access</i> , <b>2017</b> , 5, 19048-19057	3.5	26

149	High-performance adaptive robust control with balanced torque allocation for the over-actuated cutter-head driving system in tunnel boring machine. <i>Mechatronics</i> , <b>2017</b> , 46, 168-176	3	13
148	Adaptive robust control of skid steer mobile robot with independent driving torque allocation <b>2017</b> ,		2
147	Time-dependent orbital stabilization of underactuated bipedal walking <b>2017</b> ,		1
146	. <i>IEEE/ASME Transactions on Mechatronics</i> , <b>2017</b> , 22, 247-257	5.5	95
145	Adaptive Robust Cascade Force Control of 1-DOF Hydraulic Exoskeleton for Human Performance Augmentation. <i>IEEE/ASME Transactions on Mechatronics</i> , <b>2017</b> , 22, 589-600	5.5	43
144	Adaptive Robust Control of a Pump Control Hydraulic System <b>2017</b> ,		5
143	Modeling and synchronized motion control of a dual-linear-motor-driven gantry by considering rotational dynamics <b>2017</b> ,		1
142	Non-linear sliding mode control of the lower extremity exoskeleton based on humanRobot cooperation. <i>International Journal of Advanced Robotic Systems</i> , <b>2016</b> , 13, 172988141666278	1.4	18
141	Development of a Passive Compliant Mechanism for Measurement of Micro/Nanoscale Planar 3-DOF Motions. <i>IEEE/ASME Transactions on Mechatronics</i> , <b>2016</b> , 21, 1222-1232	5.5	29
140	Desired compensation neural network adaptive robust control of an industrial linear motor motion system with comparative experimental investigation <b>2016</b> ,		3
139	Cascade force control of lower limb hydraulic exoskeleton for human performance augmentation <b>2016</b> ,		2
138	Adaptive robust motion control of uncertain manipulators through immersion and invariance adaptive visual servoing <b>2016</b> ,		2
137	Adaptive robust wing trajectory control and force generation of flapping wing MAV <b>2015</b> ,		5
136	$\mu$ -Synthesis-Based Adaptive Robust Control of Linear Motor Driven Stages With High-Frequency Dynamics: A Case Study. <i>IEEE/ASME Transactions on Mechatronics</i> , <b>2015</b> , 20, 1482-1490	5.5	177
135	Integrated design of speed sensorless control algorithms for induction motors <b>2015</b> ,		1
134	Feasible Center of Mass Dynamic Manipulability of humanoid robots <b>2015</b> ,		6
133	Analysis and compensation of nonlinear friction effect on frequency identification <b>2015</b> ,		4
132	Dual drive system modeling and analysis for synchronous control of an H-type gantry <b>2015</b> ,		6

131	A performance oriented multi-loop constrained adaptive robust tracking control of one-degree-of-freedom mechanical systems: Theory and experiments. <i>Automatica</i> , <b>2014</b> , 50, 1143-1150	5.7	13
130	Adaptive robust synchronous control with dynamic thrust allocation of dual drive gantry stage <b>2014</b> ,		9
129	Nonlinear adaptive robust backstepping force control of hydraulic load simulator: Theory and experiments. <i>Journal of Mechanical Science and Technology</i> , <b>2014</b> , 28, 1499-1507	1.6	39
128	. <i>IEEE Transactions on Industrial Electronics</i> , <b>2014</b> , 61, 7046-7054	8.9	55
127	Adaptive robust torque control of electric load simulator with strong position coupling disturbance. <i>International Journal of Control, Automation and Systems</i> , <b>2013</b> , 11, 325-332	2.9	18
126	Performance-Oriented Adaptive Robust Control of a Class of Nonlinear Systems Preceded by Unknown Dead Zone With Comparative Experimental Results. <i>IEEE/ASME Transactions on Mechatronics</i> , <b>2013</b> , 18, 178-189	5.5	62
125	Adaptive Robust Vibration Control of Full-Car Active Suspensions With Electrohydraulic Actuators. <i>IEEE Transactions on Control Systems Technology</i> , <b>2013</b> , 21, 2417-2422	4.8	165
124	Accurate Motion Control of Linear Motors With Adaptive Robust Compensation of Nonlinear Electromagnetic Field Effect. <i>IEEE/ASME Transactions on Mechatronics</i> , <b>2013</b> , 18, 1122-1129	5.5	170
123	Adaptive Robust Precision Motion Control of Linear Motors With Integrated Compensation of Nonlinearities and Bearing Flexible Modes. <i>IEEE Transactions on Industrial Informatics</i> , <b>2013</b> , 9, 965-973	11.9	62
122	A Two-Loop Performance-Oriented Tip-Tracking Control of a Linear-Motor-Driven Flexible Beam System With Experiments. <i>IEEE Transactions on Industrial Electronics</i> , <b>2013</b> , 60, 1011-1022	8.9	51
121	A two-loop contour tracking control for biaxial servo systems with constraints and uncertainties <b>2013</b> ,		8
120	An Orthogonal Global Task Coordinate Frame for Contouring Control of Biaxial Systems. <i>IEEE/ASME Transactions on Mechatronics</i> , <b>2012</b> , 17, 622-634	5.5	80
119	Adaptive robust control of mobile satellite communication system with disturbance and model uncertainties. <i>Journal of Systems Engineering and Electronics</i> , <b>2012</b> , 23, 761-767	1.3	1
118	Adaptive control for nonlinear system with unknown hysteresis <b>2012</b> ,		1
117	Modeling and nonlinear computed torque control of ship-mounted mobile satellite communication system. <i>International Journal of Automation and Computing</i> , <b>2012</b> , 9, 459-466	3.5	3
116	Robust Control for Static Loading of Electro-hydraulic Load Simulator with Friction Compensation. <i>Chinese Journal of Aeronautics</i> , <b>2012</b> , 25, 954-962	3.7	56
115	Adaptive robust precision motion control of linear motors with high frequency flexible modes <b>2012</b> ,		1
114	Global stabilization of a chain of integrators with input saturation and disturbances: A new approach. <i>Automatica</i> , <b>2012</b> , 48, 1389-1396	5.7	42

113	Nonlinear Adaptive Robust Force Control of Hydraulic Load Simulator. <i>Chinese Journal of Aeronautics</i> , <b>2012</b> , 25, 766-775	3.7	68
112	An adaptive robust observer for velocity estimation in an electro-hydraulic system. <i>International Journal of Adaptive Control and Signal Processing</i> , <b>2012</b> , 26, 1076-1089	2.8	18
111	Adaptive robust tip tracking control of a class of flexible beams <b>2012</b> ,		1
110	Dual loop control of cable-conduit actuated devices <b>2012</b> ,		5
109	Adaptive Robust Synchronous Motion Control of Dual Parallel Linear Motor Driven Stage <b>2012</b> ,		5
108	Adaptive Robust Precision Motion Control of a High-Speed Industrial Gantry With Cogging Force Compensations. <i>IEEE Transactions on Control Systems Technology</i> , <b>2011</b> , 19, 1149-1159	4.8	69
107	Indirect Adaptive Robust Control of Hydraulic Manipulators With Accurate Parameter Estimates. <i>IEEE Transactions on Control Systems Technology</i> , <b>2011</b> , 19, 567-575	4.8	136
106	Adaptive Robust Precision Motion Control of Systems With Unknown Input Dead-Zones: A Case Study With Comparative Experiments. <i>IEEE Transactions on Industrial Electronics</i> , <b>2011</b> , 58, 2454-2464	8.9	74
105	Global Task Coordinate Frame-Based Contouring Control of Linear-Motor-Driven Biaxial Systems With Accurate Parameter Estimations. <i>IEEE Transactions on Industrial Electronics</i> , <b>2011</b> , 58, 5195-5205	8.9	63
104	Integrated Direct/Indirect Adaptive Robust Control of Hydraulic Manipulators With Valve Deadband. <i>IEEE/ASME Transactions on Mechatronics</i> , <b>2011</b> , 16, 707-715	5.5	118
103	Observer-Based Adaptive Robust Control of Friction Stir Welding Axial Force. <i>IEEE/ASME Transactions on Mechatronics</i> , <b>2011</b> , 16, 1032-1039	5.5	32
102	Accommodation of unknown actuator faults using output feedback-based adaptive robust control. <i>International Journal of Adaptive Control and Signal Processing</i> , <b>2011</b> , 25, 965-982	2.8	16
101	Adaptive Robust Repetitive Control of an Industrial Biaxial Precision Gantry for Contouring Tasks. <i>IEEE Transactions on Control Systems Technology</i> , <b>2011</b> , 19, 1559-1568	4.8	50
100	Experimental investigation on high-performance coordinated motion control of high-speed biaxial systems for contouring tasks. <i>International Journal of Machine Tools and Manufacture</i> , <b>2011</b> , 51, 677-686 <sup>9-4</sup>		13
99	Adaptive robust actuator fault-tolerant control in presence of input saturation <b>2011</b> ,		5
98	Output feedback based adaptive robust fault-tolerant control for a class of uncertain nonlinear systems. <i>Journal of Systems Engineering and Electronics</i> , <b>2011</b> , 22, 38-51	1.3	19
97	Globally stable fast tracking control of a chain of integrators with input saturation and disturbances: A holistic approach <b>2011</b> ,		3
96	Adaptive robust precision motion control of linear motors with electromagnetic nonlinearity compensation <b>2011</b> ,		2

95	Global stabilization of a chain of integrators with input saturation and disturbances <b>2011</b> ,		3
94	High bandwidth adaptive robust control for hydraulic rotary actuator <b>2011</b> ,		1
93	Modeling of Transmission Characteristics Across a Cable-Conduit System. <i>IEEE Transactions on Robotics</i> , <b>2010</b> , 26, 914-924	6.5	95
92	Contouring control of biaxial systems based on a new task coordinate frame <b>2010</b> ,		2
91	Reaction force estimation of surgical robot instrument using perturbation observer with SMCSPO algorithm <b>2010</b> ,		11
90	Observer-based adaptive robust control of friction stir welding axial force <b>2010</b> ,		5
89	Control of cable actuated devices using smooth backlash inverse <b>2010</b> ,		46
88	Experimental design for identification of nonlinear systems with bounded uncertainties <b>2010</b> ,		1
87	A case study for adaptive robust precision motion control of systems preceded by unknown dead-zones with comparative experiments <b>2010</b> ,		1
86	Coordinated Adaptive Robust Contouring Control of an Industrial Biaxial Precision Gantry With Cogging Force Compensations. <i>IEEE Transactions on Industrial Electronics</i> , <b>2010</b> , 57, 1746-1754	8.9	70
85	Teleoperation of a Mobile Robot Using a Force-Reflection Joystick With Sensing Mechanism of Rotating Magnetic Field. <i>IEEE/ASME Transactions on Mechatronics</i> , <b>2010</b> , 15, 17-26	5.5	50
84	System identification, modeling and precision motion control of a linear motor drive stage <b>2010</b> ,		2
83	<b>2010</b> ,		37
82	Adaptive robust control of linear electrical loading system with dynamic friction compensation <b>2010</b> ,		5
81	Coordinated Adaptive Robust Contouring Controller Design for an Industrial Biaxial Precision Gantry. <i>IEEE/ASME Transactions on Mechatronics</i> , <b>2010</b> , 15, 728-735	5.5	63
80	Adaptive robust control of a class of nonlinear systems in semi-strict feedback form with non-uniformly detectable unmeasured internal states. <i>International Journal of Adaptive Control and Signal Processing</i> , <b>2010</b> , 24, 961-981	2.8	2
79	Integrated direct/indirect adaptive robust contouring control of a biaxial gantry with accurate parameter estimations. <i>Automatica</i> , <b>2010</b> , 46, 701-707	5.7	49
78	Adaptive Robust Control for a Class of Nonlinear Uncertain System With Unknown Input Backlash <b>2009</b> ,		3

77	High performance adaptive robust control for nonlinear system with unknown input backlash <b>2009</b> ,		5
76	Integrated direct/indirect adaptive robust control of a class of nonlinear systems preceded by unknown dead-zone nonlinearity <b>2009</b> ,		3
75	Set-membership identification based adaptive robust control of systems with unknown parameter bounds <b>2009</b> ,		1
74	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> , <b>2009</b> , 131,	1.6	3
73	Desired Compensation Adaptive Robust Control. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME</i> , <b>2009</b> , 131,	1.6	46
72	Adaptive robust control of nonlinear systems with dynamic uncertainties. <i>International Journal of Adaptive Control and Signal Processing</i> , <b>2009</b> , 23, 353-377	2.8	12
71	Adaptive robust control of linear motors with dynamic friction compensation using modified LuGre model. <i>Automatica</i> , <b>2009</b> , 45, 2890-2896	5.7	116
70	Adaptive robust control for nonlinear system with input backlash or backlash-like hysteresis <b>2009</b> ,		7
69	Integrated Direct/Indirect Adaptive Robust Posture Trajectory Tracking Control of a Parallel Manipulator Driven by Pneumatic Muscles. <i>IEEE Transactions on Control Systems Technology</i> , <b>2009</b> , 17, 576-588	4.8	42
68	An Output Feedback Based Adaptive Robust Fault Tolerant Control Scheme for a Class of Nonlinear Systems <b>2009</b> ,		1
67	Coordinate Control of Energy Saving Programmable Valves. <i>IEEE Transactions on Control Systems Technology</i> , <b>2008</b> , 16, 34-45	4.8	76
66	Neural Network Adaptive Robust Control Of Siso Nonlinear Systems In A Normal Form. <i>Asian Journal of Control</i> , <b>2008</b> , 3, 96-110	1.7	2
65	Adaptive Robust Posture Control of Parallel Manipulator Driven by Pneumatic Muscles With Redundancy. <i>IEEE/ASME Transactions on Mechatronics</i> , <b>2008</b> , 13, 441-450	5.5	70
64	Desired Compensation Adaptive Robust Control of a Linear-Motor-Driven Precision Industrial Gantry With Improved Cogging Force Compensation. <i>IEEE/ASME Transactions on Mechatronics</i> , <b>2008</b> , 13, 617-624	5.5	88
63	Adaptive Robust Precision Motion Control of a Piezoelectric Positioning Stage. <i>IEEE Transactions on Control Systems Technology</i> , <b>2008</b> , 16, 1039-1046	4.8	71
62	Modeling of a closed loop cable-conduit transmission system <b>2008</b> ,		22
61	Adaptive robust control of linear motor systems with dynamic friction compensation using modified LuGre Model <b>2008</b> ,		5
60	Accommodation of partial actuator faults using output feedback based adaptive robust control <b>2008</b> ,		1



59	An Adaptive Robust Scheme for Multiple Actuator Fault Accommodation <b>2008</b> ,		5
58	Adaptive robust posture control of a parallel manipulator driven by pneumatic muscles. <i>Automatica</i> , <b>2008</b> , 44, 2248-2257	5-7	101
57	Fault detection for nonlinear systems in presence of input unmodeled dynamics <b>2007</b> ,		1
56	A globally stable saturated desired compensation adaptive robust control for linear motor systems with comparative experiments. <i>Automatica</i> , <b>2007</b> , 43, 1840-1848	5-7	60
55	Using Control Theory for Load Shedding in Data Stream Management <b>2007</b> ,		1
54	Integrated Direct/Indirect Adaptive Robust Control of Multi-DOF Hydraulic Robotic Arms <b>2007</b> , 841		2
53	A Globally Stable High-Performance Adaptive Robust Control Algorithm With Input Saturation for Precision Motion Control of Linear Motor Drive Systems. <i>IEEE/ASME Transactions on Mechatronics</i> , <b>2007</b> , 12, 198-207	5-5	56
52	Adaptive robust precision motion control of high-speed linear motors with on-line cogging force compensations <b>2007</b> ,		4
51	Adaptive Robust Posture Control of a Pneumatic Muscles Driven Parallel Manipulator with Redundancy. <i>Proceedings of the American Control Conference</i> , <b>2007</b> ,	1.2	6
50	Modeling and Simulation of a Modern PEM Fuel Cell System <b>2006</b> , 133		8
49	Output Feedback Adaptive Robust Control of Uncertain Linear Systems With Disturbances. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME</i> , <b>2006</b> , 128, 938	1.6	17
48	Output Feedback Neural Network Adaptive Robust Control With Application to Linear Motor Drive System. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME</i> , <b>2006</b> , 128, 227	1.6	8
47	Automated onboard modeling of cartridge valve flow mapping. <i>IEEE/ASME Transactions on Mechatronics</i> , <b>2006</b> , 11, 381-388	5-5	25
46	Multirate adaptive robust control for discrete-time non-minimum phase systems and application to linear motors. <i>IEEE/ASME Transactions on Mechatronics</i> , <b>2005</b> , 10, 371-377	5-5	30
45	On-Board System Identification of Systems With Unknown Input Nonlinearity and System Parameters <b>2005</b> , 1079		3
44	Multi-Objective Optimization of Tip Tracking Control Using LMI <b>2005</b> , 1533		5
43	Adaptive robust control of programmable valves with manufacturer supplied flow mapping only <b>2004</b> ,		1
42	Coordinate Control of Energy-Saving Programmable Valves <b>2003</b> , 123		5

41	Adaptive robust motion control of linear motors for precision manufacturing. <i>Mechatronics</i> , <b>2002</b> , 12, 595-616	3	95
40	Modeling and cancellation of pivot nonlinearity in hard disk drives. <i>IEEE Transactions on Magnetics</i> , <b>2002</b> , 38, 3560-3565	2	16
39	Energy-saving adaptive robust motion control of single-rod hydraulic cylinders with programmable valves <b>2002</b> ,		6
38	Observer-based adaptive robust control of a class of nonlinear systems with dynamic uncertainties. <i>International Journal of Robust and Nonlinear Control</i> , <b>2001</b> , 11, 335-356	3.6	26
37	Neural network adaptive robust control with application to precision motion control of linear motors. <i>International Journal of Adaptive Control and Signal Processing</i> , <b>2001</b> , 15, 837-864	2.8	15
36	Output feedback adaptive robust precision motion control of linear motors. <i>Automatica</i> , <b>2001</b> , 37, 1029-1039	4.639	90
35	Neural network adaptive robust control of nonlinear systems in semi-strict feedback form. <i>Automatica</i> , <b>2001</b> , 37, 1149-1160	5.7	89
34	Adaptive robust control of MIMO nonlinear systems in semi-strict feedback forms. <i>Automatica</i> , <b>2001</b> , 37, 1305-1321	5.7	241
33	Neural network adaptive robust control of nonlinear systems in semi-strict feedback form <b>2001</b> ,		1
32	Adaptive robust precision motion control of linear motors with negligible electrical dynamics: theory and experiments. <i>IEEE/ASME Transactions on Mechatronics</i> , <b>2001</b> , 6, 444-452	5.5	198
31	Non-linear adaptive robust control of electro-hydraulic systems driven by double-rod actuators. <i>International Journal of Control</i> , <b>2001</b> , 74, 761-775	1.5	87
30	Adaptive robust control of mechanical systems with nonlinear dynamic friction compensation <b>2000</b> ,		1
29	Neural network-based adaptive robust control of a class of nonlinear systems in normal form <b>2000</b> ,		6
28	Adaptive robust motion control of single-rod hydraulic actuators: theory and experiments. <i>IEEE/ASME Transactions on Mechatronics</i> , <b>2000</b> , 5, 79-91	5.5	407
27	<b>1998</b> ,		3
26	Adaptive Robust Motion and Force Tracking Control of Robot Manipulators in Contact With Compliant Surfaces With Unknown Stiffness. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME</i> , <b>1998</b> , 120, 232-240	1.6	19
25	High performance robust motion control of machine tools: an adaptive robust control approach and comparative experiments <b>1997</b> ,		1
24	Adaptive robust contour tracking of machine tool feed drive systems-a task coordinate frame approach <b>1997</b> ,		15

23	High-performance robust motion control of machine tools: an adaptive robust control approach and comparative experiments. <i>IEEE/ASME Transactions on Mechatronics</i> , <b>1997</b> , 2, 63-76	5.5	172
22	Adaptive robust control of SISO nonlinear systems in a semi-strict feedback form. <i>Automatica</i> , <b>1997</b> , 33, 893-900	5.7	475
21	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> , <b>1996</b> , 118, 764-775	1.6	146
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15	Nonlinear adaptive robust observer design for a class of nonlinear systems		10
14	Adaptive robust control: theory and applications and integrated design of intelligent and precision mechatronic systems		2
13	Integrated direct/indirect adaptive robust control of SISO nonlinear systems in semi-strict feedback form		15
12	Model based fault detection of an electro-hydraulic cylinder		14
11	A globally stable high performance adaptive robust control algorithm with input saturation for precision motion control of linear motor drive system		2
10	Robust Model-Based Fault Detection Using Adaptive Robust Observers		3
9	Adaptive robust repetitive control of a class of nonlinear systems in normal form with applications to motion control of linear motors		1
8	Energy-saving control of hydraulic systems with novel programmable valves		4
7	Observer based coordinated adaptive robust control of robot manipulators driven by single-rod hydraulic actuators		2
6	Global stabilization of a class of uncertain systems with saturated adaptive robust control		11

5	Adaptive robust precision motion control of linear motors with ripple force compensations: theory and experiments	3
4	Coordinated adaptive robust contour tracking of linear-motor-driven tables in task space	1
3	Nonlinear model based coordinated adaptive robust control of electro-hydraulic robotic arms via overparametrizing method	2
2	Nonlinear adaptive robust control of electro-hydraulic servo systems with discontinuous projections	5
1	Smooth robust adaptive sliding mode control of manipulators with guaranteed transient performance	4