Jianyong Yao

List of Publications by Citations

90 papers	3,076 citations	23 h-index	54 g-index
115 ext. papers	4,020 ext. citations	4 avg, IF	6.34 L-index

#	Paper	IF	Citations
90	Extended-State-Observer-Based Output Feedback Nonlinear Robust Control of Hydraulic Systems With Backstepping. *IEEE Transactions on Industrial Electronics*, **2014**, 61, 6285-6293	8.9	427
89	High-Accuracy Tracking Control of Hydraulic Rotary Actuators With Modeling Uncertainties. *IEEE/ASME Transactions on Mechatronics*, **2014**, 19, 633-641	5.5	347
88	Adaptive Robust Control of DC Motors With Extended State Observer. *IEEE Transactions on Industrial Electronics*, **2014**, 61, 3630-3637	8.9	264
87	Active Disturbance Rejection Adaptive Control of Hydraulic Servo Systems. *IEEE Transactions on Industrial Electronics*, **2017**, 64, 8023-8032	8.9	189
86	Adaptive Control of Hydraulic Actuators With LuGre Model-Based Friction Compensation. *IEEE Transactions on Industrial Electronics*, **2015**, 62, 6469-6477	8.9	180
85	A Practical Nonlinear Adaptive Control of Hydraulic Servomechanisms With Periodic-Like Disturbances. *IEEE/ASME Transactions on Mechatronics*, **2015**, 20, 2752-2760	5.5	113
84	RISE-Based Adaptive Control of Hydraulic Systems With Asymptotic Tracking. *IEEE Transactions on Automation Science and Engineering*, **2017**, 14, 1524-1531	4.9	97
83	Extended-State-Observer-Based Adaptive Control of Electrohydraulic Servomechanisms Without Velocity Measurement. *IEEE/ASME Transactions on Mechatronics*, **2020**, 25, 1151-1161	5.5	95
82	Active disturbance rejection adaptive control of uncertain nonlinear systems: theory and application. *Nonlinear Dynamics*, **2017**, 89, 1611-1624	5	94
81	Time-varying input delay compensation for nonlinear systems with additive disturbance: An output feedback approach. *International Journal of Robust and Nonlinear Control*, **2018**, 28, 31-52	3.6	88
80	Adaptive RISE Control of Hydraulic Systems With Multilayer Neural-Networks. *IEEE Transactions on Industrial Electronics*, **2019**, 66, 8638-8647	8.9	84
79	Precision Motion Control for Electro-Hydraulic Servo Systems With Noise Alleviation: A Desired Compensation Adaptive Approach. *IEEE/ASME Transactions on Mechatronics*, **2017**, 22, 1859-1868	5.5	72
78	Nonlinear Adaptive Robust Force Control of Hydraulic Load Simulator. *Chinese Journal of Aeronautics*, **2012**, 25, 766-775	3.7	68
77	RISE-Based Precision Motion Control of DC Motors With Continuous Friction Compensation. *IEEE Transactions on Industrial Electronics*, **2014**, 61, 7067-7075	8.9	65
76	Robust adaptive precision motion control of hydraulic actuators with valve dead-zone compensation. *ISA Transactions*, **2017**, 70, 269-278	5.5	57
75	Robust Control for Static Loading of Electro-hydraulic Load Simulator with Friction Compensation. *Chinese Journal of Aeronautics*, **2012**, 25, 954-962	3.7	56
74	Friction compensation for low velocity control of hydraulic flight motion simulator: A simple adaptive robust approach. *Chinese Journal of Aeronautics*, **2013**, 26, 814-822	3.7	42

73	Nonlinear adaptive robust backstepping force control of hydraulic load simulator: Theory and experiments. *Journal of Mechanical Science and Technology*, **2014**, 28, 1499-1507	1.6	39
72	Output feedback control of electro-hydraulic servo actuators with matched and mismatched disturbances rejection. *Journal of the Franklin Institute*, **2019**, 356, 9152-9179	4	37
71	Adaptive integral robust control and application to electromechanical servo systems. *ISA Transactions*, **2017**, 67, 256-265	5.5	36
70	Adaptive integral robust control of hydraulic systems with asymptotic tracking. *Mechatronics*, **2016**, 40, 78-86	3	29
69	Output feedback backstepping control of hydraulic actuators with valve dynamics compensation. *Mechanical Systems and Signal Processing*, **2021**, 158, 107769	7.8	29
68	High dynamic adaptive robust control of load emulator with output feedback signal. *Journal of the Franklin Institute*, **2014**, 351, 4415-4433	4	23
67	Adaptive Control of Input Delayed Uncertain Nonlinear Systems With Time-Varying Output Constraints. *IEEE Access*, **2017**, 5, 15271-15282	3.5	22
66	Nonlinear adaptive output feedback robust control of hydraulic actuators with largely unknown modeling uncertainties. *Applied Mathematical Modelling*, **2020**, 79, 824-842	4.5	21
65	Design and Control of a Piezoelectrically Actuated Fast Tool Servo for Diamond Turning of Microstructured Surfaces. *IEEE Transactions on Industrial Electronics*, **2020**, 67, 6688-6697	8.9	21
64	Robust adaptive asymptotic tracking control of a class of nonlinear systems with unknown input dead-zone. *Journal of the Franklin Institute*, **2015**, 352, 5686-5707	4	19
63	Adaptive Repetitive Control of Hydraulic Load Simulator With RISE Feedback. *IEEE Access*, **2017**, 5, 23901-23911	3.5	18
62	Internal Leakage Fault Detection and Tolerant Control of Single-Rod Hydraulic Actuators. *Mathematical Problems in Engineering*, **2014**, 2014, 1-14	1.1	18
61	Asymptotic Tracking Control of Mechanical Servosystems With Mismatched Uncertainties. *IEEE/ASME Transactions on Mechatronics*, **2021**, 26, 2204-2214	5.5	18
60	High dynamic feedback linearization control of hydraulic actuators with backstepping. *Proceedings of the Institution of Mechanical Engineers Part I: Journal of Systems and Control Engineering*, **2015**, 229, 728-737	1	17
59	Output feedback model predictive control of hydraulic systems with disturbances compensation. *ISA Transactions*, **2019**, 88, 216-224	5.5	17
58	Compound Velocity Synchronizing Control Strategy for Electro-Hydraulic Load Simulator and Its Engineering Application. *Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME*, **2014**, 136, 0510021-5100213	1.6	16
57	Neuroadaptive control of saturated nonlinear systems with disturbance compensation. *ISA Transactions*, **2021**,	5.5	16
56	Adaptive Robust Motion Control of Direct-Drive DC Motors with Continuous Friction Compensation. *Abstract and Applied Analysis*, **2013**, 2013, 1-14	0.7	15

55	Asymptotic output tracking control of electro-hydraulic systems with unmatched disturbances. *IET Control Theory and Applications*, **2016**, 10, 2543-2551	2.5	15
54	High-precision motion servo control of double-rod electro-hydraulic actuators with exact tracking performance. *ISA Transactions*, **2020**, 103, 266-279	5.5	14
53	Artificial neural network□based internal leakage fault detection for hydraulic actuators: An experimental investigation. *Proceedings of the Institution of Mechanical Engineers Part I: Journal of Systems and Control Engineering*, **2018**, 232, 369-382	1	14
52	A robust force feed-forward observer for an electro-hydraulic control loading system in flight simulators. *ISA Transactions*, **2019**, 89, 198-217	5.5	14
51	Extended-state-observer-based output feedback adaptive control of hydraulic system with continuous friction compensation. *Journal of the Franklin Institute*, **2019**, 356, 8414-8437	4	13
50	Finite-time H□adaptive attitude fault-tolerant control for reentry vehicle involving control delay. *Aerospace Science and Technology*, **2018**, 79, 246-254	4.9	13
49	Output Feedback Robust Control of Direct Current Motors With Nonlinear Friction Compensation and Disturbance Rejection. *Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME*, **2015**, 137,	1.6	13
48	Model reference adaptive tracking control for hydraulic servo systems with nonlinear neural-networks. *ISA Transactions*, **2020**, 100, 396-404	5.5	13
47	Output feedback adaptive super-twisting sliding mode control of hydraulic systems with disturbance compensation. *ISA Transactions*, **2021**, 109, 175-185	5.5	13
46	Model-based nonlinear control of hydraulic servo systems: Challenges, developments and perspectives. *Frontiers of Mechanical Engineering*, **2018**, 13, 179-210	3.3	13
45	Feedback nonlinear robust control for hydraulic system with disturbance compensation. *Proceedings of the Institution of Mechanical Engineers Part I: Journal of Systems and Control Engineering*, **2016**, 230, 978-987	1	12
44	Continuous Integral Robust Control of Electro-Hydraulic Systems With Modeling Uncertainties. *IEEE Access*, **2018**, 6, 46146-46156	3.5	12
43	Output feedback adaptive robust control of hydraulic actuator with friction and model uncertainty compensation. *Journal of the Franklin Institute*, **2017**, 354, 5328-5349	4	12
42	Dynamic Decoupling Based Robust Synchronous Control for a Hydraulic Parallel Manipulator. *IEEE Access*, **2019**, 7, 30548-30562	3.5	11
41	Robust Adaptive Control of Hydraulic System With Input Saturation and Valve Dead-Zone. *IEEE Access*, **2018**, 6, 53521-53532	3.5	10
40	Neuroadaptive learning algorithm for constrained nonlinear systems with disturbance rejection. *International Journal of Robust and Nonlinear Control*,	3.6	9
39	Adaptive robust output-feedback motion control of hydraulic actuators. *International Journal of Adaptive Control and Signal Processing*, **2017**, 31, 1544-1566	2.8	8
38	Compound Control for Electro-hydraulic Postitioning Servo System Based on Dynamic Inverse Model. *Jixie Gongcheng Xuebao/Chinese Journal of Mechanical Engineering*, **2011**, 47, 145	1.3	8

37	Adaptive Fault Detection and Isolation for Active Suspension Systems With Model Uncertainties. *IEEE Transactions on Reliability*, **2019**, 68, 927-937	4.6	8
36	Robust adaptive tracking control of hydraulic actuators with unmodeled dynamics. *Transactions of the Institute of Measurement and Control*, **2019**, 41, 3887-3898	1.8	7
35	Barrier Function-Based Asymptotic Tracking Control of Uncertain Nonlinear Systems With Multiple States Constraints. *IEEE Access*, **2020**, 8, 14917-14927	3.5	7
34	Neural Adaptive Dynamic Surface Asymptotic Tracking Control of Hydraulic Manipulators With Guaranteed Transient Performance.. *IEEE Transactions on Neural Networks and Learning Systems*, **2022**, PP,	10.3	6
33	Valve Deadzone/Backlash Compensation for Lifting Motion Control of Hydraulic Manipulators. *Machines*, **2021**, 9, 57	2.9	6
32	Robust asymptotic tracking control of a chain of integrator nonlinear systems with input constraint and hysteresis nonlinearity. *Transactions of the Institute of Measurement and Control*, **2016**, 38, 1500-1508	1.8	5
31	Barrier Lyapunov function-based adaptive output feedback failure compensation for a class of non-linear systems with unknown dead-zone non-linearity. *Transactions of the Institute of Measurement and Control*, **2017**, 39, 1169-1181	1.8	5
30	Normalized Conditional Variational Auto-Encoder with adaptive Focal loss for imbalanced fault diagnosis of Bearing-Rotor system. *Mechanical Systems and Signal Processing*, **2022**, 170, 108826	7.8	4
29	Active disturbance rejection control of layer width in wire arc additive manufacturing based on deep learning. *Journal of Manufacturing Processes*, **2021**, 67, 364-375	5	4
28	High precise tracking control for a chain of integrator systems with modelling uncertainties. *Transactions of the Institute of Measurement and Control*, **2017**, 39, 1710-1720	1.8	3
27	A Symbolic Regression Based Residual Useful Life Model for Slewing Bearings. *IEEE Access*, **2019**, 7, 72076-72089	3.5	3
26	Surplus Torque Elimination Control of Electro-Hydraulic Load Simulator Based on Actuator Velocity Input Feedforword Compensating Method. *Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME*, **2018**, 140,	1.6	3
25	Asymptotic adaptive tracking control and application to mechatronic systems. *Journal of the Franklin Institute*, **2021**, 358, 6057-6073	4	3
24	Finite-Time Output Feedback Control for Electro-Hydraulic Servo Systems with Parameter Adaptation. *Machines*, **2021**, 9, 214	2.9	3
23	Neural network based output feedback control for DC motors with asymptotic stability. *Mechanical Systems and Signal Processing*, **2022**, 164, 108288	7.8	3
22	Adaptive dynamic surface tracking control for uncertain full-state constrained nonlinear systems with disturbance compensation. *Journal of the Franklin Institute*, **2022**, 359, 2424-2444	4	3
21	ESO-based adaptive full state constraint control of uncertain systems and its application to hydraulic servo systems. *Mechanical Systems and Signal Processing*, **2022**, 167, 108560	7.8	2
20	Adaptive prescribed performance control for hydraulic system with disturbance compensation. *International Journal of Adaptive Control and Signal Processing*, **2021**, 35, 1544-1561	2.8	2

19	State Constraint Control for Uncertain Nonlinear Systems With Disturbance Compensation. *IEEE Access*, **2019**, 7, 155251-155261	3.5	2
18	RISE-Based Composite Adaptive Control of Electro-Hydrostatic Actuator with Asymptotic Stability. *Machines*, **2021**, 9, 181	2.9	2
17	Multi-Scale Deep Graph Convolutional Networks for Intelligent Fault Diagnosis of Rotor-Bearing System Under Fluctuating Working Conditions. *IEEE Transactions on Industrial Informatics*, **2022**, 1-1	11.9	2
16	Uniform robust exact differentiator based adaptive robust control for a class of nonlinear systems. *Transactions of the Institute of Measurement and Control*, **2018**, 40, 2901-2911	1.8	1
15	Integral backstepping control of servo actuators with LuGre model-based friction compensation **2016**,		1
14	Adaptive backstepping motion control of hydraulic actuators with velocity and acceleration constraints **2014**,		1
13	Disturbance rejection control for single-rod electro-hydraulic servo system based on dual-extended-state-observer **2017**,		1
12	High bandwidth adaptive robust control for hydraulic rotary actuator **2011**,		1
11	Adaptive disturbance observer-based control of hydraulic systems with asymptotic stability. *Applied Mathematical Modelling*, **2022**, 105, 226-242	4.5	1
10	Active Disturbance Rejection Adaptive Control of Tank Turret-gun Control Systems **2020**,		1
9	A novel adaptive-gain disturbance estimator-based asymptotic adaptive tracking control for uncertain nonlinear systems. *Transactions of the Institute of Measurement and Control*,014233122110436	1.8	1
8	Adaptive neural network output feedback robust control of electromechanical servo system with backlash compensation and disturbance rejection. *Mechatronics*, **2022**, 84, 102794	3	1
7	Robust indirect adaptive control of electromechanical servo systems with uncertain time-varying parameters. *International Journal of Control*,1-14	1.5	1
6	Active disturbance rejection adaptive output feedback control of uncertain nonlinear systems. *International Journal of Robust and Nonlinear Control*, **2021**, 31, 7461-7479	3.6	0
5	Nonlinear Adaptive Robust Precision Pointing Control of Tank Servo Systems. *IEEE Access*, **2021**, 9, 23385-23397	3.5	0
4	Research on Mechanical Responses of a Novel Inertially Driven MEMS Safety and Arming Device Under Dual-environment Inertial Loads. *IEEE Sensors Journal*, **2022**, 1-1	4	0
3	Comments on Control of high order integrator chain systems subjected to disturbance and saturated control: A new adaptive scheme, Automatica, 100:108113, 2019*Automatica*, **2020**, 117, 108995	5.7	
2	Adaptive Robust Actuator Fault Accommodation for a Class of Uncertain Nonlinear Systems with Unknown Control Gains. *Mathematical Problems in Engineering*, **2014**, 2014, 1-11	1.1	

1	Rapid-Erection Backstepping Tracking Control for Electrohydraulic Lifting Mechanisms of Launcher Systems. *Applied Sciences (Switzerland)*, **2022**, 12, 893	2.6