

Jianyong 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.

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	Neural Adaptive Dynamic Surface Asymptotic Tracking Control of Hydraulic Manipulators With Guaranteed Transient Performance.. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 2022 , PP,	10.3	6
89	Rapid-Erection Backstepping Tracking Control for Electrohydraulic Lifting Mechanisms of Launcher Systems. <i>Applied Sciences (Switzerland)</i> , 2022 , 12, 893	2.6	
88	Normalized Conditional Variational Auto-Encoder with adaptive Focal loss for imbalanced fault diagnosis of Bearing-Rotor system. <i>Mechanical Systems and Signal Processing</i> , 2022 , 170, 108826	7.8	4
87	Adaptive disturbance observer-based control of hydraulic systems with asymptotic stability. <i>Applied Mathematical Modelling</i> , 2022 , 105, 226-242	4.5	1
86	ESO-based adaptive full state constraint control of uncertain systems and its application to hydraulic servo systems. <i>Mechanical Systems and Signal Processing</i> , 2022 , 167, 108560	7.8	2
85	Neural network based output feedback control for DC motors with asymptotic stability. <i>Mechanical Systems and Signal Processing</i> , 2022 , 164, 108288	7.8	3
84	Research on Mechanical Responses of a Novel Inertially Driven MEMS Safety and Arming Device Under Dual-environment Inertial Loads. <i>IEEE Sensors Journal</i> , 2022 , 1-1	4	0
83	Adaptive dynamic surface tracking control for uncertain full-state constrained nonlinear systems with disturbance compensation. <i>Journal of the Franklin Institute</i> , 2022 , 359, 2424-2444	4	3
82	Adaptive neural network output feedback robust control of electromechanical servo system with backlash compensation and disturbance rejection. <i>Mechatronics</i> , 2022 , 84, 102794	3	1
81	Multi-Scale Deep Graph Convolutional Networks for Intelligent Fault Diagnosis of Rotor-Bearing System Under Fluctuating Working Conditions. <i>IEEE Transactions on Industrial Informatics</i> , 2022 , 1-1	11.9	2
80	Valve Deadzone/Backlash Compensation for Lifting Motion Control of Hydraulic Manipulators. <i>Machines</i> , 2021 , 9, 57	2.9	6
79	Neuroadaptive control of saturated nonlinear systems with disturbance compensation. <i>ISA Transactions</i> , 2021 ,	5.5	16
78	Adaptive prescribed performance control for hydraulic system with disturbance compensation. <i>International Journal of Adaptive Control and Signal Processing</i> , 2021 , 35, 1544-1561	2.8	2
77	Active disturbance rejection adaptive output feedback control of uncertain nonlinear systems. <i>International Journal of Robust and Nonlinear Control</i> , 2021 , 31, 7461-7479	3.6	0
76	Output feedback adaptive super-twisting sliding mode control of hydraulic systems with disturbance compensation. <i>ISA Transactions</i> , 2021 , 109, 175-185	5.5	13
75	Active disturbance rejection control of layer width in wire arc additive manufacturing based on deep learning. <i>Journal of Manufacturing Processes</i> , 2021 , 67, 364-375	5	4
74	RISE-Based Composite Adaptive Control of Electro-Hydrostatic Actuator with Asymptotic Stability. <i>Machines</i> , 2021 , 9, 181	2.9	2

73	Asymptotic Tracking Control of Mechanical Servosystems With Mismatched Uncertainties. <i>IEEE/ASME Transactions on Mechatronics</i> , 2021 , 26, 2204-2214	5.5	18
72	Asymptotic adaptive tracking control and application to mechatronic systems. <i>Journal of the Franklin Institute</i> , 2021 , 358, 6057-6073	4	3
71	Finite-Time Output Feedback Control for Electro-Hydraulic Servo Systems with Parameter Adaptation. <i>Machines</i> , 2021 , 9, 214	2.9	3
70	Output feedback backstepping control of hydraulic actuators with valve dynamics compensation. <i>Mechanical Systems and Signal Processing</i> , 2021 , 158, 107769	7.8	29
69	Nonlinear Adaptive Robust Precision Pointing Control of Tank Servo Systems. <i>IEEE Access</i> , 2021 , 9, 23385-23397	5.3	3
68	Barrier Function-Based Asymptotic Tracking Control of Uncertain Nonlinear Systems With Multiple States Constraints. <i>IEEE Access</i> , 2020 , 8, 14917-14927	3.5	7
67	Comments on Control of high order integrator chain systems subjected to disturbance and saturated control: A new adaptive scheme, <i>Automatica</i> , 100:108113, 2019 <i>Automatica</i> , 2020 , 117, 108995	5.7	5
66	High-precision motion servo control of double-rod electro-hydraulic actuators with exact tracking performance. <i>ISA Transactions</i> , 2020 , 103, 266-279	5.5	14
65	Active Disturbance Rejection Adaptive Control of Tank Turret-gun Control Systems 2020 ,		1
64	Extended-State-Observer-Based Adaptive Control of Electrohydraulic Servomechanisms Without Velocity Measurement. <i>IEEE/ASME Transactions on Mechatronics</i> , 2020 , 25, 1151-1161	5.5	95
63	Model reference adaptive tracking control for hydraulic servo systems with nonlinear neural-networks. <i>ISA Transactions</i> , 2020 , 100, 396-404	5.5	13
62	Nonlinear adaptive output feedback robust control of hydraulic actuators with largely unknown modeling uncertainties. <i>Applied Mathematical Modelling</i> , 2020 , 79, 824-842	4.5	21
61	Design and Control of a Piezoelectrically Actuated Fast Tool Servo for Diamond Turning of Microstructured Surfaces. <i>IEEE Transactions on Industrial Electronics</i> , 2020 , 67, 6688-6697	8.9	21
60	Extended-state-observer-based output feedback adaptive control of hydraulic system with continuous friction compensation. <i>Journal of the Franklin Institute</i> , 2019 , 356, 8414-8437	4	13
59	A Symbolic Regression Based Residual Useful Life Model for Slewing Bearings. <i>IEEE Access</i> , 2019 , 7, 72076572089	5.5	9
58	Robust adaptive tracking control of hydraulic actuators with unmodeled dynamics. <i>Transactions of the Institute of Measurement and Control</i> , 2019 , 41, 3887-3898	1.8	7
57	Dynamic Decoupling Based Robust Synchronous Control for a Hydraulic Parallel Manipulator. <i>IEEE Access</i> , 2019 , 7, 30548-30562	3.5	11
56	Output feedback control of electro-hydraulic servo actuators with matched and mismatched disturbances rejection. <i>Journal of the Franklin Institute</i> , 2019 , 356, 9152-9179	4	37

55	State Constraint Control for Uncertain Nonlinear Systems With Disturbance Compensation. <i>IEEE Access</i> , 2019 , 7, 155251-155261	3.5	2
54	A robust force feed-forward observer for an electro-hydraulic control loading system in flight simulators. <i>ISA Transactions</i> , 2019 , 89, 198-217	5.5	14
53	Output feedback model predictive control of hydraulic systems with disturbances compensation. <i>ISA Transactions</i> , 2019 , 88, 216-224	5.5	17
52	Adaptive RISE Control of Hydraulic Systems With Multilayer Neural-Networks. <i>IEEE Transactions on Industrial Electronics</i> , 2019 , 66, 8638-8647	8.9	84
51	Adaptive Fault Detection and Isolation for Active Suspension Systems With Model Uncertainties. <i>IEEE Transactions on Reliability</i> , 2019 , 68, 927-937	4.6	8
50	Surplus Torque Elimination Control of Electro-Hydraulic Load Simulator Based on Actuator Velocity Input Feedforward Compensating Method. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME</i> , 2018 , 140,	1.6	3
49	Artificial neural network based internal leakage fault detection for hydraulic actuators: An experimental investigation. <i>Proceedings of the Institution of Mechanical Engineers Part I: Journal of Systems and Control Engineering</i> , 2018 , 232, 369-382	1	14
48	Time-varying input delay compensation for nonlinear systems with additive disturbance: An output feedback approach. <i>International Journal of Robust and Nonlinear Control</i> , 2018 , 28, 31-52	3.6	88
47	Uniform robust exact differentiator based adaptive robust control for a class of nonlinear systems. <i>Transactions of the Institute of Measurement and Control</i> , 2018 , 40, 2901-2911	1.8	1
46	Continuous Integral Robust Control of Electro-Hydraulic Systems With Modeling Uncertainties. <i>IEEE Access</i> , 2018 , 6, 46146-46156	3.5	12
45	Finite-time H _∞ adaptive attitude fault-tolerant control for reentry vehicle involving control delay. <i>Aerospace Science and Technology</i> , 2018 , 79, 246-254	4.9	13
44	Model-based nonlinear control of hydraulic servo systems: Challenges, developments and perspectives. <i>Frontiers of Mechanical Engineering</i> , 2018 , 13, 179-210	3.3	13
43	Robust Adaptive Control of Hydraulic System With Input Saturation and Valve Dead-Zone. <i>IEEE Access</i> , 2018 , 6, 53521-53532	3.5	10
42	RISE-Based Adaptive Control of Hydraulic Systems With Asymptotic Tracking. <i>IEEE Transactions on Automation Science and Engineering</i> , 2017 , 14, 1524-1531	4.9	97
41	Barrier Lyapunov function-based adaptive output feedback failure compensation for a class of non-linear systems with unknown dead-zone non-linearity. <i>Transactions of the Institute of Measurement and Control</i> , 2017 , 39, 1169-1181	1.8	5
40	High precise tracking control for a chain of integrator systems with modelling uncertainties. <i>Transactions of the Institute of Measurement and Control</i> , 2017 , 39, 1710-1720	1.8	3
39	Adaptive integral robust control and application to electromechanical servo systems. <i>ISA Transactions</i> , 2017 , 67, 256-265	5.5	36
38	Active Disturbance Rejection Adaptive Control of Hydraulic Servo Systems. <i>IEEE Transactions on Industrial Electronics</i> , 2017 , 64, 8023-8032	8.9	189

37	Active disturbance rejection adaptive control of uncertain nonlinear systems: theory and application. <i>Nonlinear Dynamics</i> , 2017 , 89, 1611-1624	5	94
36	Adaptive robust output-feedback motion control of hydraulic actuators. <i>International Journal of Adaptive Control and Signal Processing</i> , 2017 , 31, 1544-1566	2.8	8
35	Precision Motion Control for Electro-Hydraulic Servo Systems With Noise Alleviation: A Desired Compensation Adaptive Approach. <i>IEEE/ASME Transactions on Mechatronics</i> , 2017 , 22, 1859-1868	5.5	72
34	Adaptive Control of Input Delayed Uncertain Nonlinear Systems With Time-Varying Output Constraints. <i>IEEE Access</i> , 2017 , 5, 15271-15282	3.5	22
33	Robust adaptive precision motion control of hydraulic actuators with valve dead-zone compensation. <i>ISA Transactions</i> , 2017 , 70, 269-278	5.5	57
32	Output feedback adaptive robust control of hydraulic actuator with friction and model uncertainty compensation. <i>Journal of the Franklin Institute</i> , 2017 , 354, 5328-5349	4	12
31	Adaptive Repetitive Control of Hydraulic Load Simulator With RISE Feedback. <i>IEEE Access</i> , 2017 , 5, 23901-23911	5.3	118
30	Disturbance rejection control for single-rod electro-hydraulic servo system based on dual-extended-state-observer 2017 ,		1
29	Robust asymptotic tracking control of a chain of integrator nonlinear systems with input constraint and hysteresis nonlinearity. <i>Transactions of the Institute of Measurement and Control</i> , 2016 , 38, 1500-1508	1.8	5
28	Feedback nonlinear robust control for hydraulic system with disturbance compensation. <i>Proceedings of the Institution of Mechanical Engineers Part I: Journal of Systems and Control Engineering</i> , 2016 , 230, 978-987	1	12
27	Integral backstepping control of servo actuators with LuGre model-based friction compensation 2016 ,		1
26	Adaptive integral robust control of hydraulic systems with asymptotic tracking. <i>Mechatronics</i> , 2016 , 40, 78-86	3	29
25	Asymptotic output tracking control of electro-hydraulic systems with unmatched disturbances. <i>IET Control Theory and Applications</i> , 2016 , 10, 2543-2551	2.5	15
24	A Practical Nonlinear Adaptive Control of Hydraulic Servomechanisms With Periodic-Like Disturbances. <i>IEEE/ASME Transactions on Mechatronics</i> , 2015 , 20, 2752-2760	5.5	113
23	Adaptive Control of Hydraulic Actuators With LuGre Model-Based Friction Compensation. <i>IEEE Transactions on Industrial Electronics</i> , 2015 , 62, 6469-6477	8.9	180
22	High dynamic feedback linearization control of hydraulic actuators with backstepping. <i>Proceedings of the Institution of Mechanical Engineers Part I: Journal of Systems and Control Engineering</i> , 2015 , 229, 728-737	1	17
21	Robust adaptive asymptotic tracking control of a class of nonlinear systems with unknown input dead-zone. <i>Journal of the Franklin Institute</i> , 2015 , 352, 5686-5707	4	19
20	Output Feedback Robust Control of Direct Current Motors With Nonlinear Friction Compensation and Disturbance Rejection. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME</i> , 2015 , 137,	1.6	13

19	Adaptive Robust Control of DC Motors With Extended State Observer. <i>IEEE Transactions on Industrial Electronics</i> , 2014 , 61, 3630-3637	8.9	264
18	Extended-State-Observer-Based Output Feedback Nonlinear Robust Control of Hydraulic Systems With Backstepping. <i>IEEE Transactions on Industrial Electronics</i> , 2014 , 61, 6285-6293	8.9	427
17	High-Accuracy Tracking Control of Hydraulic Rotary Actuators With Modeling Uncertainties. <i>IEEE/ASME Transactions on Mechatronics</i> , 2014 , 19, 633-641	5.5	347
16	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	1.6	39
15	High dynamic adaptive robust control of load emulator with output feedback signal. <i>Journal of the Franklin Institute</i> , 2014 , 351, 4415-4433	4	23
14	Adaptive backstepping motion control of hydraulic actuators with velocity and acceleration constraints 2014 ,		1
13	RISE-Based Precision Motion Control of DC Motors With Continuous Friction Compensation. <i>IEEE Transactions on Industrial Electronics</i> , 2014 , 61, 7067-7075	8.9	65
12	Internal Leakage Fault Detection and Tolerant Control of Single-Rod Hydraulic Actuators. <i>Mathematical Problems in Engineering</i> , 2014 , 2014, 1-14	1.1	18
11	Compound Velocity Synchronizing Control Strategy for Electro-Hydraulic Load Simulator and Its Engineering Application. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME</i> , 2014 , 136, 0510021-5100213	1.6	16
10	Adaptive Robust Actuator Fault Accommodation for a Class of Uncertain Nonlinear Systems with Unknown Control Gains. <i>Mathematical Problems in Engineering</i> , 2014 , 2014, 1-11	1.1	
9	Friction compensation for low velocity control of hydraulic flight motion simulator: A simple adaptive robust approach. <i>Chinese Journal of Aeronautics</i> , 2013 , 26, 814-822	3.7	42
8	Adaptive Robust Motion Control of Direct-Drive DC Motors with Continuous Friction Compensation. <i>Abstract and Applied Analysis</i> , 2013 , 2013, 1-14	0.7	15
7	Robust Control for Static Loading of Electro-hydraulic Load Simulator with Friction Compensation. <i>Chinese Journal of Aeronautics</i> , 2012 , 25, 954-962	3.7	56
6	Nonlinear Adaptive Robust Force Control of Hydraulic Load Simulator. <i>Chinese Journal of Aeronautics</i> , 2012 , 25, 766-775	3.7	68
5	High bandwidth adaptive robust control for hydraulic rotary actuator 2011 ,		1
4	Compound Control for Electro-hydraulic Positioning Servo System Based on Dynamic Inverse Model. <i>Jixie Gongcheng Xuebao/Chinese Journal of Mechanical Engineering</i> , 2011 , 47, 145	1.3	8
3	A novel adaptive-gain disturbance estimator-based asymptotic adaptive tracking control for uncertain nonlinear systems. <i>Transactions of the Institute of Measurement and Control</i> , 014233122110436 ^{1.8}		1
2	Robust indirect adaptive control of electromechanical servo systems with uncertain time-varying parameters. <i>International Journal of Control</i> , 1-14	1.5	1

- 1 Neuroadaptive learning algorithm for constrained nonlinear systems with disturbance rejection. *International Journal of Robust and Nonlinear Control*, 3.6 9