

# Wen-Fang Xie

## List of Publications by Year in descending order

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107  
papers

1,862  
citations

331259

21  
h-index

301761

39  
g-index

107  
all docs

107  
docs citations

107  
times ranked

1543  
citing authors

#	ARTICLE	IF	CITATIONS
1	Adaptive tracking of nonlinear systems with non-symmetric dead-zone input. Automatica, 2007, 43, 522-530.	3.0	241
2	Sliding-Mode-Observer-Based Adaptive Control for Servo Actuator With Friction. IEEE Industrial Electronics Magazine, 2007, 54, 1517-1527.	2.3	179
3	Sliding mode fault tolerant control dealing with modeling uncertainties and actuator faults. ISA Transactions, 2012, 51, 386-392.	3.1	83
4	Augmented Image-Based Visual Servoing of a Manipulator Using Acceleration Command. IEEE Transactions on Industrial Electronics, 2014, 61, 5444-5452.	5.2	77
5	Switching Control of Image-Based Visual Servoing With Laser Pointer in Robotic Manufacturing Systems. IEEE Transactions on Industrial Electronics, 2009, 56, 520-529.	5.2	70
6	New model and simulation of Macpherson suspension system for ride control applications. Vehicle System Dynamics, 2009, 47, 195-220.	2.2	60
7	Automatic Epileptic Seizure Detection in EEG Using Nonsampled Waveletâ€‘Fourier Features. Journal of Medical and Biological Engineering, 2017, 37, 123-131.	1.0	57
8	Dynamic Path Tracking of Industrial Robots With High Accuracy Using Photogrammetry Sensor. IEEE/ASME Transactions on Mechatronics, 2018, 23, 1159-1170.	3.7	57
9	Generalized Prandtl-Ishlinskii hysteresis model: Hysteresis modeling and its inverse for compensation in smart actuators. , 2008, , .		54
10	Robust On-Line Model Predictive Control for a Constrained Image Based Visual Servoing. IEEE Transactions on Industrial Electronics, 2015, , 1-1.	5.2	51
11	Nonlinear systems identification using dynamic multi-time scale neural networks. Neurocomputing, 2011, 74, 3428-3439.	3.5	50
12	Image-Based Visual Servoing Using an Optimized Trajectory Planning Technique. IEEE/ASME Transactions on Mechatronics, 2017, 22, 359-370.	3.7	45
13	A novel sliding-mode control of induction motor using space vector modulation technique. ISA Transactions, 2005, 44, 481-490.	3.1	40
14	Performance-based parameter tuning method of model-driven PID control systems. ISA Transactions, 2012, 51, 393-399.	3.1	40
15	Neural networkâ€‘based adaptive control of piezoelectric actuators with unknown hysteresis. International Journal of Adaptive Control and Signal Processing, 2009, 23, 30-54.	2.3	39
16	Nonlinear system identification using optimized dynamic neural network. Neurocomputing, 2009, 72, 3277-3287.	3.5	36
17	Identification and Control for Singularly Perturbed Systems Using Multitime-Scale Neural Networks. IEEE Transactions on Neural Networks and Learning Systems, 2017, 28, 321-333.	7.2	36
18	Observer design for discrete-time systems subject to time-delay nonlinearities. International Journal of Systems Science, 2006, 37, 629-641.	3.7	35

#	ARTICLE	IF	CITATIONS
19	Robust on-line nonlinear systems identification using multilayer dynamic neural networks with two-time scales. <i>Neurocomputing</i> , 2013, 113, 16-26.	3.5	34
20	Nonlinear Systems Identification and Control Via Dynamic Multitime Scales Neural Networks. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 2013, 24, 1814-1823.	7.2	31
21	Identification and Trajectory Tracking Control of Nonlinear Singularly Perturbed Systems. <i>IEEE Transactions on Industrial Electronics</i> , 2017, 64, 3737-3747.	5.2	31
22	Wavelet-based denoising: A brief review. , 2013, , .		22
23	An Enhanced IBVS Controller of a 6DOF Manipulator Using Hybrid PD-SMC Method. <i>International Journal of Control, Automation and Systems</i> , 2018, 16, 844-855.	1.6	22
24	Robust control of semi-active Macpherson suspension system: new applied design. <i>Vehicle System Dynamics</i> , 2010, 48, 339-360.	2.2	20
25	Adaptive Switch Image-based Visual Servoing for Industrial Robots. <i>International Journal of Control, Automation and Systems</i> , 2020, 18, 1324-1334.	1.6	19
26	Robust Cascade Vision/Force Control of Industrial Robots Utilizing Continuous Integral Sliding-Mode Control Method. <i>IEEE/ASME Transactions on Mechatronics</i> , 2022, 27, 524-536.	3.7	18
27	Image-based visual servoing using improved image moments in 6-DOF robot systems. <i>International Journal of Control, Automation and Systems</i> , 2013, 11, 586-596.	1.6	16
28	Robust adaptive nonlinear observer design via multi-time scales neural network. <i>Neurocomputing</i> , 2016, 190, 217-225.	3.5	15
29	Nonlinear dynamics and gust response of a two-dimensional wing. <i>International Journal of Non-Linear Mechanics</i> , 2020, 123, 103478.	1.4	15
30	Feasibility study of robotic fibre placement on intersecting multi-axial revolution surfaces. <i>Robotics and Computer-Integrated Manufacturing</i> , 2017, 48, 73-79.	6.1	14
31	Sliding Mode Reconfigurable Control Using Information on the Control Effectiveness of Actuators. <i>Journal of Aerospace Engineering</i> , 2014, 27, 587-596.	0.8	13
32	Visual servoing using an optimized trajectory planning technique for a 4 DOFs robotic manipulator. <i>International Journal of Control, Automation and Systems</i> , 2017, 15, 1362-1373.	1.6	13
33	Hyperspectral face recognition with log-polar Fourier features and collaborative representation based voting classifiers. <i>IET Biometrics</i> , 2017, 6, 36-42.	1.6	13
34	Semi-active control of aircraft landing gear system using H-infinity control approach. , 2013, , .		12
35	Enhanced Switch Image-Based Visual Servoing Dealing with Features Loss. <i>Electronics (Switzerland)</i> , 2019, 8, 903.	1.8	12
36	Observer based control of piezoelectric actuators with classical Duhem modeled hysteresis. , 2009, , .		11

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37	Indirect adaptive control of nonlinear system via dynamic multilayer neural networks with multi-time scales. International Journal of Adaptive Control and Signal Processing, 2015, 29, 505-523.	2.3	11
38	Adaptive optimal control of unknown nonlinear systems with different time scales. Neurocomputing, 2017, 238, 179-190.	3.5	11
39	Accuracy enhancement of industrial robots by on-line pose correction. , 2017, , .		11
40	Dual-Rate Adaptive Control for Mixed Separation Thickening Process Using Compensation Signal Based Approach. IEEE Transactions on Industrial Electronics, 2018, 65, 3621-3632.	5.2	11
41	A disturbance-decoupled adaptive observer and its application to faulty parameters estimation of a hydraulically driven elevator. International Journal of Adaptive Control and Signal Processing, 2011, 25, 519-534.	2.3	10
42	Invariant pattern recognition using ring-projection and dual-tree complex wavelets. , 2011, , .		9
43	Neural Network-Based Image Moments for Robotic Visual Servoing. Journal of Intelligent and Robotic Systems: Theory and Applications, 2015, 78, 239-256.	2.0	9
44	Relative posture-based kinematic calibration of a 6-RSS parallel robot by optical coordinate measurement machine. International Journal of Advanced Robotic Systems, 2018, 15, 172988141876586.	1.3	9
45	AI-Driven Intelligent Fault Detection and Diagnosis in a Hybrid AC/DC Microgrid. , 2019, , .		9
46	Dynamic Visual Servoing of A 6-RSS Parallel Robot Based on Optical CMM. Journal of Intelligent and Robotic Systems: Theory and Applications, 2021, 102, 1.	2.0	9
47	Decoupled image-based visual servoing for robotic manufacturing systems using gain scheduled switch control. , 2017, , .		8
48	Adaptive control of harmonic drive with parameter varying friction using structurally dynamic wavelet network. International Journal of Control, Automation and Systems, 2011, 9, 50-59.	1.6	7
49	Fuzzy fractional-order PID controller design using multi-objective optimization. , 2013, , .		7
50	Sliding Mode Reconfigurable Fault Tolerant Control for Nonlinear Aircraft Systems. Journal of Aerospace Engineering, 2015, 28, .	0.8	7
51	Adaptive Nonlinear Systems Identification via Discrete Multi-Time Scales Dynamic Neural Networks. Intelligent Automation and Soft Computing, 2016, 22, 111-123.	1.6	7
52	Semi-offline trajectory synchronized algorithm of the cooperative automated fiber placement system. Robotics and Computer-Integrated Manufacturing, 2018, 51, 53-62.	6.1	7
53	Nonlinear systems identification and control using dynamic multi-time scales neural networks. , 2009, , .		6
54	H&#x221E; robust control of active suspensions: A practical point of view. , 2009, , .		6

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55	Ramanujan sums-wavelet transform for signal analysis. , 2013, , .		6
56	A Comparative Study of Eye-In-Hand Image-Based Visual Servoing: Stereo vs. Mono. Journal of Integrated Design and Process Science, 2016, 19, 25-54.	0.2	6
57	Identification of Takagi-Sugeno (TS) fuzzy model with Evolutionary Parallel Gradient Search. , 2008, , .		5
58	Nonlinear systems identification using dynamic multi-time scales neural networks. , 2008, , .		5
59	Optimal control of LQG problem with an explicit trade-off between mean and variance. International Journal of Systems Science, 2011, 42, 1957-1964.	3.7	5
60	Optimal Image-Based Task-Sequence/Path Planning and Robust Hybrid Vision/Force Control of Industrial Robots. IEEE Access, 2022, 10, 26347-26368.	2.6	5
61	Fuzzy Optimal Control for Harmonic Drive System with Friction Variation with Temperature. , 2007, , .		4
62	Neural Network Based Adaptive Control of Piezoelectric Actuator with Unknown Hysteresis. , 2007, , .		4
63	Robust adaptive control of a class of nonlinear systems with unknown Prandtl-Ishilinskii-Like hysteresis. , 2009, , .		4
64	Multiple cameras visual servoing used for large scale 3D positioning. , 2011, , .		4
65	Identification of singularly perturbed nonlinear system using recurrent high-order neural network. , 2014, , .		4
66	Enhanced IBVS controller for a 6DOF manipulator using hybrid PD-SMC method. , 2017, , .		4
67	Adaptive Image-Based Visual Servoing of 6 DOF Robots Using Switch Approach. , 2018, , .		4
68	Hyperspectral linear unmixing based on collaborative sparsity and multi-band non-local total variation. International Journal of Remote Sensing, 2022, 43, 1-26.	1.3	4
69	A Cascaded Fuzzy Model of Friction over Large Temperature Variation. , 2006, , .		3
70	Torque control of induction motors for hybrid electric vehicles. , 2006, , .		3
71	Induction motor identification using dynamic two-time scales neural networks with sliding mode learning. , 2012, , .		3
72	Quasi-min-max model predictive control for image-based visual servoing. , 2012, , .		3

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73	Multi-objective control design of the nonlinear systems using genetic algorithm. , 2014, , .		3
74	Frequency Dependent Spencer Modeling of Magnetorheological Damper Using Hybrid Optimization Approach. Shock and Vibration, 2015, 2015, 1-8.	0.3	3
75	Identification for nonlinear singularly perturbed system using recurrent high-order multi-time scales neural network. , 2015, , .		3
76	Multi-objective robust model predictive control using Game Theory. , 2015, , .		3
77	Dynamic path tracking of industrial robots with high accuracy by visual servoing. , 2017, , .		3
78	Visual Closed-Loop Dynamic Model Identification of Parallel Robots Based on Optical CMM Sensor. Electronics (Switzerland), 2019, 8, 836.	1.8	3
79	Adaptive multi-tracker optimization algorithm for global optimization problems: emphasis on applications in chemical engineering. Engineering With Computers, 2022, 38, 1309-1336.	3.5	3
80	Visual servoing control of video tracking system for tracking a flying target. , 2011, , .		2
81	On a laxity-based real-time scheduling policy for fixed-priority tasks and its non-utilization bound. , 2011, , .		2
82	Indirect adaptive control of nonlinear system via dynamic multilayer neural networks with multi-time scales. , 2013, , .		2
83	Thermal control design for an automated fiber placement machine. Science and Engineering of Composite Materials, 2014, 21, .	0.6	2
84	A novel tactile softness display for minimally invasive surgery. Mechatronics, 2014, 24, 1144-1156.	2.0	2
85	Visual servoing of a robotic manipulator using an optimized trajectory planning technique. , 2014, , .		2
86	Nash bargaining approach to design multi-objective MPC. , 2016, , .		2
87	Operation of the Collaborative Composite Manufacturing (CCM) System. Journal of Visualized Experiments, 2019, , .	0.2	2
88	Adaptive Robust Kalman Filter for Vision-based Pose Estimation of Industrial Robots. , 2019, , .		2
89	Adaptive Neuro-fuzzy Inference System Trained for Sizing Semi-elliptical Notches Scanned by Eddy Currents. Journal of Nondestructive Evaluation, 2020, 39, 5.	1.1	2
90	Unsupervised Detection for Burned Area with Fuzzy C-Means and D-S Evidence Theory. , 2020, , .		2

#	ARTICLE	IF	CITATIONS
91	Nonlinear System Identification using Genetic Algorithm Based Recurrent Neural Networks. , 2006, , .		1
92	Variable Structure Control Based on the Fuzzy Neural Networks. , 2006, , .		1
93	Practical Output Tracking of Nonlinear Systems with Uncontrollable Unstable Linearization: an Alternative Adaptive Mechanism. Proceedings of the American Control Conference, 2007, , .	0.0	1
94	Image-Based Visual Servoing using improved image moments. , 2009, , .		1
95	Identification and control for singularly perturbed systems using multi-time-scale neural networks. , 2015, , .		1
96	Identification and Control of Flexible Joint Robot Using Multi-Time-Scale Neural Network. Journal of Shanghai Jiaotong University (Science), 2020, 25, 553-560.	0.5	1
97	A COMPOSITE APPROACH TO THE ADAPTIVE NEURAL NETWORKS CONTROL OF UNKNOWN FLEXIBLE JOINT ROBOTS. , 2007, , .		1
98	Object ground lines regression and mapping from fisheye images to around view image for the AVP. Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering, 2023, 237, 1902-1913.	1.1	1
99	Robust invariance control of a class of uncertain cascade nonlinear systems. , 2007, , .		0
100	Graphical representation of tactile sensing data in minimally invasive surgery. , 2007, , .		0
101	On-line nonlinear systems identification via dynamic neural networks with multi-time scales. , 2010, , .		0
102	Nonlinear optimal trade-off control for LQG problem. , 2010, , .		0
103	Wavelet-Based Linearization for Single-Degree-Of-Freedom Nonlinear Systems. Lecture Notes in Computer Science, 2012, , 99-110.	1.0	0
104	Robust model predictive control of shimmy vibration in aircraft landing gears with probabilistic uncertainty. , 2014, , .		0
105	Hyperspectral image classification via principal component analysis, 2D spatial convolution, and support vector machines. Journal of Applied Remote Sensing, 2021, 15, .	0.6	0
106	Robust multi-stage hybrid vision/force control of industrial robots. , 2021, , .		0
107	Leveraging Google Earth Engine and Semi-Supervised Generative Adversarial Networks to Assess Initial Burn Severity in Forest. Canadian Journal of Remote Sensing, 2022, 48, 411-424.	1.1	0