

# Yuhua Cheng

## List of Publications by Citations

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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.

87  
papers

1,044  
citations

15  
h-index

29  
g-index

120  
ext. papers

1,476  
ext. citations

4.2  
avg, IF

5.01  
L-index

#	Paper	IF	Citations
87	Adaptive Fractional-order switching-type control method design for 3D fractional-order nonlinear systems. <i>Nonlinear Dynamics</i> , <b>2015</b> , 82, 39-52	5	143
86	An Improved MPPT Controller for Photovoltaic System Under Partial Shading Condition. <i>IEEE Transactions on Sustainable Energy</i> , <b>2014</b> , 5, 978-985	8.2	139
85	Automatic Defect Identification of Eddy Current Pulsed Thermography Using Single Channel Blind Source Separation. <i>IEEE Transactions on Instrumentation and Measurement</i> , <b>2014</b> , 63, 913-922	5.2	103
84	Distributed Federated Tobit Kalman Filter Fusion Over a Packet-Delaying Network: A Probabilistic Perspective. <i>IEEE Transactions on Signal Processing</i> , <b>2018</b> , 66, 4477-4489	4.8	44
83	Tobit Kalman Filter With Time-Correlated Multiplicative Sensor Noises Under Redundant Channel Transmission. <i>IEEE Sensors Journal</i> , <b>2017</b> , 17, 8367-8377	4	40
82	Design of Fractional-Order Backstepping Sliding Mode Control for Quadrotor UAV. <i>Asian Journal of Control</i> , <b>2019</b> , 21, 156-171	1.7	39
81	Spatial and Time Patterns Extraction of Eddy Current Pulsed Thermography Using Blind Source Separation. <i>IEEE Sensors Journal</i> , <b>2013</b> , 13, 2094-2101	4	35
80	Fractional-order switching type control law design for adaptive sliding mode technique of 3D fractional-order nonlinear systems. <i>Complexity</i> , <b>2016</b> , 21, 363-373	1.6	30
79	Enhanced Laser-Based Magneto-Optic Imaging System for Nondestructive Evaluation Applications. <i>IEEE Transactions on Instrumentation and Measurement</i> , <b>2013</b> , 62, 1192-1198	5.2	27
78	Reducing the Effect of Surface Emissivity Variation in Eddy Current Pulsed Thermography. <i>IEEE Sensors Journal</i> , <b>2014</b> , 14, 1137-1142	4	22
77	Target State and Markovian Jump Ionospheric Height Bias Estimation for OTHR Tracking Systems. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , <b>2020</b> , 50, 2599-2611	7.3	22
76	On the feature selection for battery state of health estimation based on charging-discharging profiles. <i>Journal of Energy Storage</i> , <b>2021</b> , 33, 102122	7.8	21
75	Bipartite Tracking Consensus of Generic Linear Agents With Discrete-Time Dynamics Over Cooperation-Competition Networks. <i>IEEE Transactions on Cybernetics</i> , <b>2021</b> , 51, 5225-5235	10.2	20
74	State estimation under non-Gaussian Lévy and time-correlated additive sensor noises: A modified Tobit Kalman filtering approach. <i>Signal Processing</i> , <b>2019</b> , 154, 120-128	4.4	20
73	State estimation for asynchronous sensor systems with Markov jumps and multiplicative noises. <i>Information Sciences</i> , <b>2017</b> , 417, 1-19	7.7	18
72	A magnetic domain spots filtering method with self-adapting threshold value selecting for crack detection based on the MOI. <i>Nonlinear Dynamics</i> , <b>2016</b> , 86, 741-750	5	15
71	Successive approximation method for the measurement of thickness using pulsed eddy current <b>2015</b> ,		14

70	Adaptive rapid defect identification in ECPT based on K-means and automatic segmentation algorithm. <i>Journal of Ambient Intelligence and Humanized Computing</i> , <b>2018</b> , 1	3.7	13
69	Scaled Tracking Consensus in Discrete-Time Second-Order Multiagent Systems With Random Packet Dropouts. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , <b>2020</b> , 1-7	7.3	12
68	Flexible multichannel vagus nerve electrode for stimulation and recording for heart failure treatment. <i>Biosensors and Bioelectronics</i> , <b>2018</b> , 112, 114-119	11.8	12
67	Local Sparseness and Image Fusion for Defect Inspection in Eddy Current Pulsed Thermography. <i>IEEE Sensors Journal</i> , <b>2019</b> , 19, 1471-1477	4	12
66	Similarity-Based Difference Analysis Approach for Remaining Useful Life Prediction of GaAs-Based Semiconductor Lasers. <i>IEEE Access</i> , <b>2017</b> , 5, 21508-21523	3.5	11
65	Scaled consensus for asynchronous high-order discrete-time multiagent systems. <i>International Journal of Robust and Nonlinear Control</i> , <b>2020</b> , 30, 443-456	3.6	10
64	Application of discrete-time Bayesian network on reliability analysis of uncertain system with common cause failure. <i>Quality and Reliability Engineering International</i> , <b>2019</b> , 35, 1025-1045	2.6	10
63	Protocol-Based Tobit Kalman Filter Under Integral Measurements and Probabilistic Sensor Failures. <i>IEEE Transactions on Signal Processing</i> , <b>2021</b> , 69, 546-559	4.8	10
62	Adaptive Fractional-Order SMC Controller Design for Unmanned Quadrotor Helicopter Under Actuator Fault and Disturbances. <i>IEEE Access</i> , <b>2020</b> , 8, 103792-103802	3.5	9
61	Cucker-Bmale flocking under rooted leadership and time-varying heterogeneous delays. <i>Applied Mathematics Letters</i> , <b>2019</b> , 98, 453-460	3.5	9
60	Asynchronous Tracking Control of Leader-Follower Multiagent Systems With Input Uncertainties Over Switching Signed Digraphs. <i>IEEE Transactions on Cybernetics</i> , <b>2021</b> , PP,	10.2	9
59	Federated Tobit Kalman Filtering Fusion With Dead-Zone-Like Censoring and Dynamical Bias Under the Round-Robin Protocol. <i>IEEE Transactions on Signal and Information Processing Over Networks</i> , <b>2021</b> , 7, 1-16	2.8	9
58	Improvement of the grid-connect current quality using novel proportional-integral controller for photovoltaic inverters. <i>Review of Scientific Instruments</i> , <b>2014</b> , 85, 025110	1.7	8
57	Multi-wave and hybrid imaging techniques: a new direction for nondestructive testing and structural health monitoring. <i>Sensors</i> , <b>2013</b> , 13, 16146-90	3.8	8
56	A Heuristic Algorithm for the Reconstruction and Extraction of Defect Shape Features in Magnetic Flux Leakage Testing. <i>IEEE Transactions on Instrumentation and Measurement</i> , <b>2020</b> , 69, 9062-9071	5.2	7
55	Tobit Kalman filtering for fractional-order systems with stochastic nonlinearities under Round-Robin protocol. <i>International Journal of Robust and Nonlinear Control</i> , <b>2021</b> , 31, 2348-2370	3.6	7
54	Multi-Sensor Filtering Fusion With Parametric Uncertainties and Measurement Censoring: Monotonicity and Boundedness. <i>IEEE Transactions on Signal Processing</i> , <b>2021</b> , 69, 5875-5890	4.8	6
53	An Improved Bearing Fault Diagnosis Scheme Based on Hierarchical Fuzzy Entropy and Alexnet Network. <i>IEEE Access</i> , <b>2021</b> , 9, 61710-61720	3.5	6

52	Dielectric materials for electrolyte gated transistor applications. <i>Journal of Materials Chemistry C</i> , <b>2021</b> , 9, 9348-9376	7.1	6
51	DOA Estimation of Excavation Devices with ELM and MUSIC-Based Hybrid Algorithm. <i>Cognitive Computation</i> , <b>2017</b> , 9, 564-580	4.4	5
50	Design of trajectory tracking controller with fractional-order backstepping sliding mode method for quadrotor UAV <b>2018</b> ,		5
49	Exponential H <sub>∞</sub> synchronization of non-fragile sampled-data controlled complex dynamical networks with random coupling and time varying delay. <i>Systems Science and Control Engineering</i> , <b>2018</b> , 6, 370-387	2	5
48	Absorbing coating thickness measurement based on lift-off effect of eddy current testing. <i>International Journal of Applied Electromagnetics and Mechanics</i> , <b>2014</b> , 45, 323-330	0.4	5
47	Defect Automatic Identification of Eddy Current Pulsed Thermography. <i>Journal of Sensors</i> , <b>2014</b> , 2014, 1-7	2	5
46	Research on visual detection technology using eddy current magnet excitation device <b>2009</b> ,		5
45	Asynchronous Frequency-Dependent Fault Detection for Nonlinear Markov Jump Systems Under Wireless Fading Channels. <i>IEEE Transactions on Cybernetics</i> , <b>2021</b> , PP,	10.2	5
44	Leader-Follower Flocking for Discrete-Time Cucker-Smale Models With Lossy Links and General Weight Functions. <i>IEEE Transactions on Automatic Control</i> , <b>2021</b> , 66, 4945-4951	5.9	5
43	Application of dynamic evidential networks in reliability analysis of complex systems with epistemic uncertainty and multiple life distributions. <i>Annals of Operations Research</i> , <b>2019</b> , 1	3.2	4
42	Multi-agent containment control with random link failures over dynamic cooperative networks. <i>Journal of the Franklin Institute</i> , <b>2019</b> , 356, 9665-9676	4	4
41	Selection of significant independent components in eddy current pulsed thermography non-destructive testing <b>2015</b> ,		3
40	Frequency feature based quantification of defect depth and thickness. <i>Review of Scientific Instruments</i> , <b>2014</b> , 85, 064705	1.7	3
39	Outlier-Resistant Filtering With Dead-Zone-Like Censoring Under Try-Once-Discard Protocol. <i>IEEE Transactions on Signal Processing</i> , <b>2022</b> , 70, 714-728	4.8	3
38	Temperature decoupled viscosity-density product measurement in liquid by utilizing a dual-mode AIN-based acoustic wave resonator. <i>Applied Physics Letters</i> , <b>2018</b> , 113, 203502	3.4	3
37	A New GAN-Based Approach to Data Augmentation and Image Segmentation for Crack Detection in Thermal Imaging Tests. <i>Cognitive Computation</i> , <b>2021</b> , 13, 1263	4.4	3
36	Consensus tracking control of discrete-time second-order agents over switching signed digraphs with arbitrary antagonistic relations. <i>International Journal of Robust and Nonlinear Control</i> , <b>2020</b> , 30, 4826-4838	3.6	2
35	Detection of the crack by reducing the influence of the magnetic domain based on the MOI <b>2016</b> ,		2

34	Actuator fault tolerant controlling using adaptive radical basis function neural network SMC for quadrotor UAV <b>2019</b> ,		2
33	Back propagation neural network based control for the heating system of a polysilicon reduction furnace. <i>Review of Scientific Instruments</i> , <b>2013</b> , 84, 125108	1.7	2
32	Protocol-Based Fusion Estimator Design for State-Saturated Systems with Dead-Zone-Like Censoring under Deception Attacks. <i>IEEE Transactions on Signal and Information Processing Over Networks</i> , <b>2021</b> , 1-1	2.8	2
31	Dynamics of Generic Linear Agents Over Signed Networks Without Structural Constraints. <i>IFAC-PapersOnLine</i> , <b>2020</b> , 53, 2459-2464	0.7	2
30	An improved generative adversarial network with modified loss function for crack detection in electromagnetic nondestructive testing. <i>Complex &amp; Intelligent Systems</i> ,1	7.1	2
29	Reliability assessment for failure-dependent and uncertain systems: A Bayesian network based on copula method and probability-box. <i>Quality and Reliability Engineering International</i> , <b>2021</b> , 37, 1894-1921 <sup>2.6</sup>		2
28	Design of Fractional-Order Backstepping Sliding Mode Controller for the Quadrotor Unmanned Aerial Vehicles <b>2018</b> ,		2
27	Collective Behavior of Multileader Multiagent Systems With Random Interactions Over Signed Digraphs. <i>IEEE Transactions on Control of Network Systems</i> , <b>2021</b> , 8, 1394-1405	4	2
26	Synchronization of Complex Dynamical Networks with Randomly Coupling via Nonfragile Control <b>2018</b> ,		1
25	Realizing actual feedback control of complex network. <i>Open Physics</i> , <b>2014</b> , 12,	1.3	1
24	Design of trajectory tracking control for adaptive intelligent detection based on 6-DOF manipulator <b>2017</b> ,		1
23	Eddy current imaging techniques for NDT&E applications <b>2013</b> ,		1
22	Estimating the varying topology of discrete-time dynamical networks with noise. <i>Open Physics</i> , <b>2013</b> , 11,	1.3	1
21	An innovative exciting coil design for magneto-optic imaging in nondestructive evaluation <b>2013</b> ,		1
20	Opinion Dynamics of Social Networks With Intermittent-Influence Leaders. <i>IEEE Transactions on Computational Social Systems</i> , <b>2022</b> , 1-10	4.5	1
19	Research on Defects Recognition Method Based on Impedance Information <b>2020</b> ,		1
18	Opinion Dynamics Driven Under Leadership in Cooperation-Competition Social Networks <b>2020</b> ,		1
17	MOI-Based Stratified Crack Detection: A PCA Approach* <b>2019</b> ,		1

16	Empower parameterized generative adversarial networks using a novel particle swarm optimizer: algorithms and applications. <i>International Journal of Machine Learning and Cybernetics</i> , <b>2022</b> , 13, 1145	3.8	1
15	Leader-Follower Opinion Dynamics of Signed Social Networks With Asynchronous Trust/Distrust Level Evolution. <i>IEEE Transactions on Network Science and Engineering</i> , <b>2021</b> , 1-1	4.9	1
14	An independent components number estimation technique in eddy current pulsed thermography <b>2016</b> ,		1
13	Quantification of Complex Defects in Magnetic Flux Leakage (MFL) Testing Using Gradient Gray Level Analysis Based on Least Square Approximation <b>2019</b> ,		1
12	Multi-Source Uncertain Information Fusion Method for Fault Diagnosis Based on Evidence Theory <b>2019</b> ,		1
11	Path selection with Nash Q-learning for remote state estimation over multihop relay network. <i>International Journal of Robust and Nonlinear Control</i> , <b>2020</b> , 30, 4331-4344	3.6	1
10	Fractional order nonsingular fast terminal sliding mode control technique for 6-DOF robotic manipulator <b>2018</b> ,		1
9	High-Order Bipartite Consensus for Multiagent Systems Over Signed Networks Subject to Asynchronous Communications. <i>IEEE Transactions on Network Science and Engineering</i> , <b>2021</b> , 1-1	4.9	1
8	Bipartite containment control for discrete-time second-order multiagent systems with time-varying delays on switching signed topologies. <i>Neurocomputing</i> , <b>2020</b> , 417, 528-535	5.4	0
7	Intelligent fault diagnosis of rotating machinery based on a novel lightweight convolutional neural network. <i>Proceedings of the Institution of Mechanical Engineers, Part O: Journal of Risk and Reliability</i> , <b>2020</b> , 1748006X2096501	0.8	0
6	Solenoid Model for the Magnetic Flux Leakage Testing Based on the Molecular Current. <i>IEEE Transactions on Magnetics</i> , <b>2018</b> , 54, 1-14	2	0
5	Potential of Eddy Current Pulsed Thermography as a Nondestructive Testing Method. <i>IEEE Instrumentation and Measurement Magazine</i> , <b>2022</b> , 25, 5-15	1.4	0
4	Bipartite Flocking for Cucker-Smale Model on Cooperation-Competition Networks Subject to Denial-of-Service Attacks. <i>IEEE Transactions on Circuits and Systems I: Regular Papers</i> , <b>2022</b> , 1-12	3.9	0
3	Variance-Constrained Filtering Fusion for Nonlinear Cyber-Physical Systems With the Denial-of-Service Attacks and Stochastic Communication Protocol. <i>IEEE/CAA Journal of Automatica Sinica</i> , <b>2022</b> , 9, 978-989	7	0
2	Enhancement of Defect Detectability in Pneumatic Pressure Equipment Using an Automatic Detection Technique in ECPT. <i>Journal of Testing and Evaluation</i> , <b>2021</b> , 49, 20180724	1	
1	Locating Link Failures in WSNs via Cluster Consensus and Graph Decomposition. <i>IEEE/ACM Transactions on Networking</i> , <b>2022</b> , 1-11	3.8	