

Yuhua Cheng

List of Publications by Year in descending order

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120
papers

1,909
citations

331259

21
h-index

288905

40
g-index

120
all docs

120
docs citations

120
times ranked

1517
citing authors

#	ARTICLE	IF	CITATIONS
1	An Improved MPPT Controller for Photovoltaic System Under Partial Shading Condition. IEEE Transactions on Sustainable Energy, 2014, 5, 978-985.	5.9	191
2	Adaptive fractional-order switching-type control method design for 3D fractional-order nonlinear systems. Nonlinear Dynamics, 2015, 82, 39-52.	2.7	186
3	Automatic Defect Identification of Eddy Current Pulsed Thermography Using Single Channel Blind Source Separation. IEEE Transactions on Instrumentation and Measurement, 2014, 63, 913-922.	2.4	127
4	Highly stretchable organic electrochemical transistors with strain-resistant performance. Nature Materials, 2022, 21, 564-571.	13.3	86
5	Design of Fractional-Order Backstepping Sliding Mode Control for Quadrotor UAV. Asian Journal of Control, 2019, 21, 156-171.	1.9	82
6	On the feature selection for battery state of health estimation based on charging&discharging profiles. Journal of Energy Storage, 2021, 33, 102122.	3.9	77
7	Distributed Federated Tobit Kalman Filter Fusion Over a Packet-Delaying Network: A Probabilistic Perspective. IEEE Transactions on Signal Processing, 2018, 66, 4477-4489.	3.2	60
8	Tobit Kalman Filter With Time-Correlated Multiplicative Sensor Noises Under Redundant Channel Transmission. IEEE Sensors Journal, 2017, 17, 8367-8377.	2.4	53
9	Asynchronous Tracking Control of Leader&Follower Multiagent Systems With Input Uncertainties Over Switching Signed Digraphs. IEEE Transactions on Cybernetics, 2022, 52, 6379-6390.	6.2	48
10	Spatial and Time Patterns Extraction of Eddy Current Pulsed Thermography Using Blind Source Separation. IEEE Sensors Journal, 2013, 13, 2094-2101.	2.4	43
11	Bipartite Tracking Consensus of Generic Linear Agents With Discrete-Time Dynamics Over Cooperation&Competition Networks. IEEE Transactions on Cybernetics, 2021, 51, 5225-5235.	6.2	37
12	Enhanced Laser-Based Magneto-Optic Imaging System for Nondestructive Evaluation Applications. IEEE Transactions on Instrumentation and Measurement, 2013, 62, 1192-1198.	2.4	36
13	Dielectric materials for electrolyte gated transistor applications. Journal of Materials Chemistry C, 2021, 9, 9348-9376.	2.7	36
14	State estimation under non-Gaussian Lévy and time-correlated additive sensor noises: A modified Tobit Kalman filtering approach. Signal Processing, 2019, 154, 120-128.	2.1	35
15	Fractional-order switching type control law design for adaptive sliding mode technique of 3D fractional-order nonlinear systems. Complexity, 2016, 21, 363-373.	0.9	33
16	Target State and Markovian Jump Ionospheric Height Bias Estimation for OTHR Tracking Systems. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2020, 50, 2599-2611.	5.9	33
17	Leader&Follower Flocking for Discrete-Time Cucker&Smale Models With Lossy Links and General Weight Functions. IEEE Transactions on Automatic Control, 2021, 66, 4945-4951.	3.6	32
18	Reducing the Effect of Surface Emissivity Variation in Eddy Current Pulsed Thermography. IEEE Sensors Journal, 2014, 14, 1137-1142.	2.4	27

#	ARTICLE	IF	CITATIONS
19	Outlier-Resistant Filtering With Dead-Zone-Like Censoring Under Try-Once-Discard Protocol. IEEE Transactions on Signal Processing, 2022, 70, 714-728.	3.2	27
20	Asynchronous Frequency-Dependent Fault Detection for Nonlinear Markov Jump Systems Under Wireless Fading Channels. IEEE Transactions on Cybernetics, 2022, 52, 13598-13608.	6.2	26
21	Protocol-Based Tobit Kalman Filter Under Integral Measurements and Probabilistic Sensor Failures. IEEE Transactions on Signal Processing, 2021, 69, 546-559.	3.2	26
22	State estimation for asynchronous sensor systems with Markov jumps and multiplicative noises. Information Sciences, 2017, 417, 1-19.	4.0	20
23	Adaptive rapid defect identification in ECPT based on K-means and automatic segmentation algorithm. Journal of Ambient Intelligence and Humanized Computing, 2023, 14, 1-18.	3.3	20
24	Cucker's Smale flocking under rooted leadership and time-varying heterogeneous delays. Applied Mathematics Letters, 2019, 98, 453-460.	1.5	20
25	Scaled Tracking Consensus in Discrete-Time Second-Order Multiagent Systems With Random Packet Dropouts. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2021, 51, 7745-7751.	5.9	20
26	Tobit Kalman filtering for fractional-order systems with stochastic nonlinearities under Round-Robin protocol. International Journal of Robust and Nonlinear Control, 2021, 31, 2348-2370.	2.1	19
27	An Improved Bearing Fault Diagnosis Scheme Based on Hierarchical Fuzzy Entropy and Alexnet Network. IEEE Access, 2021, 9, 61710-61720.	2.6	19
28	Federated Tobit Kalman Filtering Fusion With Dead-Zone-Like Censoring and Dynamical Bias Under the Round-Robin Protocol. IEEE Transactions on Signal and Information Processing Over Networks, 2021, 7, 1-16.	1.6	19
29	Multi-Sensor Filtering Fusion With Parametric Uncertainties and Measurement Censoring: Monotonicity and Boundedness. IEEE Transactions on Signal Processing, 2021, 69, 5875-5890.	3.2	19
30	Leader-Follower Opinion Dynamics of Signed Social Networks With Asynchronous Trust/Distrust Level Evolution. IEEE Transactions on Network Science and Engineering, 2022, 9, 495-509.	4.1	19
31	A magnetic domain spots filtering method with self-adapting threshold value selecting for crack detection based on the MOI. Nonlinear Dynamics, 2016, 86, 741-750.	2.7	18
32	Similarity-Based Difference Analysis Approach for Remaining Useful Life Prediction of GaAs-Based Semiconductor Lasers. IEEE Access, 2017, 5, 21508-21523.	2.6	18
33	Adaptive Fractional-Order SMC Controller Design for Unmanned Quadrotor Helicopter Under Actuator Fault and Disturbances. IEEE Access, 2020, 8, 103792-103802.	2.6	17
34	A New GAN-Based Approach to Data Augmentation and Image Segmentation for Crack Detection in Thermal Imaging Tests. Cognitive Computation, 2021, 13, 1263-1273.	3.6	17
35	Successive approximation method for the measurement of thickness using pulsed eddy current. , 2015, ,		16
36	Application of discrete-time Bayesian network on reliability analysis of uncertain system with common cause failure. Quality and Reliability Engineering International, 2019, 35, 1025-1045.	1.4	16

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37	Multi-Wave and Hybrid Imaging Techniques: A New Direction for Nondestructive Testing and Structural Health Monitoring. <i>Sensors</i> , 2013, 13, 16146-16190.	2.1	14
38	Flexible multichannel vagus nerve electrode for stimulation and recording for heart failure treatment. <i>Biosensors and Bioelectronics</i> , 2018, 112, 114-119.	5.3	14
39	Local Sparseness and Image Fusion for Defect Inspection in Eddy Current Pulsed Thermography. <i>IEEE Sensors Journal</i> , 2019, 19, 1471-1477.	2.4	14
40	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> , 2022, 9, 978-989.	8.5	14
41	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> , 2020, 69, 9062-9071.	2.4	13
42	Improvement of the grid-connect current quality using novel proportional-integral controller for photovoltaic inverters. <i>Review of Scientific Instruments</i> , 2014, 85, 025110.	0.6	12
43	Scaled consensus for asynchronous high-order discrete-time multiagent systems. <i>International Journal of Robust and Nonlinear Control</i> , 2020, 30, 443-456.	2.1	12
44	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> , 2022, 8, 37-48.	1.6	12
45	Design of trajectory tracking controller with fractional-order backstepping sliding mode method for quadrotor UAV. , 2018, , .		10
46	Application of dynamic evidential networks in reliability analysis of complex systems with epistemic uncertainty and multiple life distributions. <i>Annals of Operations Research</i> , 2019, , 1.	2.6	10
47	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> , 2021, 37, 1894-1921.	1.4	10
48	Opinion Dynamics of Social Networks With Intermittent-Influence Leaders. <i>IEEE Transactions on Computational Social Systems</i> , 2023, 10, 1073-1082.	3.2	10
49	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> , 2022, 69, 3379-3390.	3.5	10
50	Defect Automatic Identification of Eddy Current Pulsed Thermography. <i>Journal of Sensors</i> , 2014, 2014, 1-7.	0.6	9
51	An improved generative adversarial network with modified loss function for crack detection in electromagnetic nondestructive testing. <i>Complex & Intelligent Systems</i> , 2022, 8, 467-476.	4.0	9
52	Absorbing coating thickness measurement based on lift-off effect of eddy current testing. <i>International Journal of Applied Electromagnetics and Mechanics</i> , 2014, 45, 323-330.	0.3	7
53	DOA Estimation of Excavation Devices with ELM and MUSIC-Based Hybrid Algorithm. <i>Cognitive Computation</i> , 2017, 9, 564-580.	3.6	7
54	Exponential synchronization of non-fragile sampled-data controlled complex dynamical networks with random coupling and time varying delay. <i>Systems Science and Control Engineering</i> , 2018, 6, 370-387.	1.8	7

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55	Actuator fault tolerant controlling using adaptive radical basis function neural network SMC for quadrotor UAV. , 2019, , .		7
56	Collective Behavior of Multileader Multiagent Systems With Random Interactions Over Signed Digraphs. IEEE Transactions on Control of Network Systems, 2021, 8, 1394-1405.	2.4	7
57	High-Order Bipartite Consensus for Multiagent Systems Over Signed Networks Subject to Asynchronous Communications. IEEE Transactions on Network Science and Engineering, 2021, 8, 3325-3334.	4.1	7
58	Temperature decoupled viscosity-density product measurement in liquid by utilizing a dual-mode AIN-based acoustic wave resonator. Applied Physics Letters, 2018, 113, .	1.5	6
59	Design of Fractional-Order Backstepping Sliding Mode Controller for the Quadrotor Unmanned Aerial Vehicles. , 2018, , .		6
60	Bipartite containment control for discrete-time second-order multiagent systems with time-varying delays on switching signed topologies. Neurocomputing, 2020, 417, 528-535.	3.5	6
61	Consensus tracking control of discrete-time second-order agents over switching signed digraphs with arbitrary antagonistic relations. International Journal of Robust and Nonlinear Control, 2020, 30, 4826-4838.	2.1	6
62	Path selection with Nash Q-learning for remote state estimation over multihop relay network. International Journal of Robust and Nonlinear Control, 2020, 30, 4331-4344.	2.1	6
63	Moran's Index-Based Tensor Decomposition for Eddy Current Pulsed Thermography Sequence Processing. IEEE Transactions on Instrumentation and Measurement, 2021, 70, 1-12.	2.4	6
64	Research on visual detection technology using eddy current magnet excitation device. , 2009, , .		5
65	Solenoid Model for the Magnetic Flux Leakage Testing Based on the Molecular Current. IEEE Transactions on Magnetics, 2018, 54, 1-14.	1.2	5
66	Frequency feature based quantification of defect depth and thickness. Review of Scientific Instruments, 2014, 85, 064705.	0.6	4
67	Selection of significant independent components in eddy current pulsed thermography non-destructive testing. , 2015, , .		4
68	Multi-agent containment control with random link failures over dynamic cooperative networks. Journal of the Franklin Institute, 2019, 356, 9665-9676.	1.9	4
69	Seeking Tracking Consensus for General Linear Multiagent Systems With Fixed and Switching Signed Networks. IEEE Transactions on Cybernetics, 2022, 52, 6697-6706.	6.2	4
70	Empower parameterized generative adversarial networks using a novel particle swarm optimizer: algorithms and applications. International Journal of Machine Learning and Cybernetics, 2022, 13, 1145-1155.	2.3	4
71	Potential of Eddy Current Pulsed Thermography as a Nondestructive Testing Method. IEEE Instrumentation and Measurement Magazine, 2022, 25, 5-15.	1.2	4
72	Design of trajectory tracking controller with backstepping method for quadrotor unmanned aerial vehicles. , 2018, , .		3

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73	Design of the fractional-order adaptive nonsingular terminal sliding mode controller for 6-DOF robotic manipulator. , 2018, , .		3
74	Eddy current imaging techniques for NDT&E applications. , 2013, , .		2
75	Back propagation neural network based control for the heating system of a polysilicon reduction furnace. Review of Scientific Instruments, 2013, 84, 125108.	0.6	2
76	Detection of the crack by reducing the influence of the magnetic domain based on the MOI. , 2016, , .		2
77	Dual Energy Scheduling for Microgrids in Energy Internet: A Non-Cooperative Game Approach. , 2017, , .		2
78	Design of trajectory tracking control for adaptive intelligent detection based on 6-DOF manipulator. , 2017, , .		2
79	Fractional order nonsingular fast terminal sliding mode control technique for 6-DOF robotic manipulator. , 2018, , .		2
80	An enhance feature algorithm for defect detection of pneumatic pressure equipment using eddy current pulsed thermography. , 2018, , .		2
81	Synchronization of Complex Dynamical Networks with Randomly Coupling via Nonfragile Control. , 2018, , .		2
82	Lithium-ion Battery State of Health Monitoring Based on Ensemble Learning. , 2019, , .		2
83	Multi-Source Uncertain Information Fusion Method for Fault Diagnosis Based on Evidence Theory. , 2019, , .		2
84	Bipartite Containment Control for General Linear Multiagent Systems under Denial-of-Service Attacks. , 2021, , .		2
85	Dynamics of Generic Linear Agents Over Signed Networks Without Structural Constraints. IFAC-PapersOnLine, 2020, 53, 2459-2464.	0.5	2
86	Study on the Lowest Spatial Resolution of Magnetic Flux Leakage Testing for Weld Cracks. , 2020, , .		2
87	Application of Tensor Decomposition Methods In Eddy Current Pulsed Thermography Sequences Processing. , 2020, , .		2
88	Estimating the varying topology of discrete-time dynamical networks with noise. Open Physics, 2013, 11, .	0.8	1
89	An innovative exciting coil design for magneto-optic imaging in nondestructive evaluation. , 2013, , .		1
90	Realizing actual feedback control of complex network. Open Physics, 2014, 12, .	0.8	1

#	ARTICLE	IF	CITATIONS
91	An independent components number estimation technique in eddy current pulsed thermography. , 2016, , .		1
92	Crack detection using the MOI method based on artificial neural network. , 2017, , .		1
93	Trajectory tracking optimal control with backstepping method for quadrotor helicopter. , 2017, , .		1
94	Quantification of Complex Defects in Magnetic Flux Leakage (MFL) Testing Using Gradient Gray Level Analysis Based on Least Square Approximation. , 2019, , .		1
95	Intelligent fault diagnosis of rotating machinery based on a novel lightweight convolutional neural network. Proceedings of the Institution of Mechanical Engineers, Part O: Journal of Risk and Reliability, 2020, , 1748006X2096501.	0.6	1
96	Solidly Mounted Bulk Acoustic Wave Resonant Magnetic Field Sensor Based on Magnetoelastic Effect. , 2021, , .		1
97	MOI-Based Stratified Crack Detection: A PCA Approach*. , 2019, , .		1
98	Research on Defects Recognition Method Based on Impedance Information. , 2020, , .		1
99	Opinion Dynamics Driven Under Leadership in Cooperation-Competition Social Networks. , 2020, , .		1
100	Minimizing energy consumption of lighting system using fractional-order extremum seeking control. , 2015, , .		0
101	Fractional-order sliding mode-extremum seeking control design with fractional-order PI sliding surface. , 2015, , .		0
102	Robust stability of fractional-order nonlinear systems under sliding mode controller with fractional-order reaching law. , 2016, , .		0
103	Spline cell-based hidden Markov approach for singular time series forecasting in performance degradation trend analysis. , 2016, , .		0
104	Volterra Kernel Constructive Extreme Learning Machine Based on Genetic Algorithms for Time Series Prediction. , 2018, , .		0
105	Non-fragile Synchronization of Markovian Jumping Complex Dynamical Networks with Random Coupling and Time-Varying Delays. , 2018, , .		0
106	A design of detection algorithm based on thermal regions separation for pressure vessels. , 2018, , .		0
107	Adaptive intelligent detection based on 6-DOF manipulator. , 2018, , .		0
108	Gradient-based stochastic extremum seeking for static maps with delays. , 2019, , .		0

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109	A New Spacecraft Impact Damage Feature Extraction Algorithm Based on Dynamic Multi-Objective Optimization Method. , 2019, , .		0
110	Dual-Optimized Support Vector Machine for Fault Diagnosis of Rotating Equipment Based on CM-GA. , 2019, , .		0
111	Computation of Hybrid Uncertainty and Dependent Failure in System Reliability Analysis and Assessment. , 2019, , .		0
112	Multi-objective Optimization for Infrared Image Feature Detecting under Multi-performance Analysis. , 2019, , .		0
113	Assessment of pressure vessel based on Variational Bayesian. , 2020, , .		0
114	Tensor Based Finite Element Model for the Calculation of Leakage Field in Magnetic Flux Leakage Testing. Studies in Applied Electromagnetics and Mechanics, 2020, , .	0.2	0
115	Light Energy Saving method of Lighting System Based on MISO FO Newton-based ES. , 2020, , .		0
116	Enhancement of Defect Detectability in Pneumatic Pressure Equipment Using an Automatic Detection Technique in ECPT. Journal of Testing and Evaluation, 2021, 49, 640-660.	0.4	0
117	Battery State of Health Estimation with Incremental Capacity Analysis Technique. , 2020, , .		0
118	A Thermal-Mechanical Deformation Based Fault Diagnosis Method Utilizing Support Vector Machine Algorithm for IGBT Bonding Wire Crack Detection. , 2021, , .		0
119	Locating Link Failures in WSNs via Cluster Consensus and Graph Decomposition. IEEE/ACM Transactions on Networking, 2022, 30, 2304-2314.	2.6	0
120	Prediction of overshoot and crosstalk of low-voltage GaN HEMT using analytical model. IET Power Electronics, 0, , .	1.5	0