

Huajing Fang

List of Publications by Year in descending order

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109
papers

2,241
citations

361045

20
h-index

243296

44
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109
all docs

109
docs citations

109
times ranked

1770
citing authors

#	ARTICLE	IF	CITATIONS
1	An integrated unscented kalman filter and relevance vector regression approach for lithium-ion battery remaining useful life and short-term capacity prediction. Reliability Engineering and System Safety, 2015, 144, 74-82.	5.1	203
2	Takagi-sugeno fuzzy-model-based fault detection for networked control systems with Markov delays. IEEE Transactions on Systems, Man, and Cybernetics, 2006, 36, 924-929.	5.5	195
3	Fault diagnosis of networked control systems. Annual Reviews in Control, 2007, 31, 55-68.	4.4	185
4	A new hybrid method for the prediction of the remaining useful life of a lithium-ion battery. Applied Energy, 2017, 206, 1564-1578.	5.1	158
5	Parameter optimization of support vector regression based on sine cosine algorithm. Expert Systems With Applications, 2018, 91, 63-77.	4.4	146
6	Remaining useful life estimation of Lithium-ion battery based on interacting multiple model particle filter and support vector regression. Reliability Engineering and System Safety, 2021, 210, 107542.	5.1	92
7	A hybrid prognostic method for system degradation based on particle filter and relevance vector machine. Reliability Engineering and System Safety, 2019, 186, 51-63.	5.1	78
8	Event-Based Finite-Time Filtering for Multirate Systems With Fading Measurements. IEEE Transactions on Aerospace and Electronic Systems, 2017, 53, 1431-1441.	2.6	67
9	Recursive estimation for nonlinear stochastic systems with multi-step transmission delays, multiple packet dropouts and correlated noises. Signal Processing, 2015, 115, 164-175.	2.1	59
10	Observer-based fault detection for networked discrete-time infinite-distributed delay systems with packet dropouts. Applied Mathematical Modelling, 2012, 36, 270-278.	2.2	53
11	H \hat{a} fault detection for nonlinear networked systems with multiple channels data transmission pattern. Information Sciences, 2013, 221, 534-543.	4.0	51
12	Improvement for Consensus Performance of Multi-Agent Systems Based on Weighted Average Prediction. IEEE Transactions on Automatic Control, 2012, 57, 249-254.	3.6	46
13	Recursive state estimation for discrete-time nonlinear systems with event-triggered data transmission, norm-bounded uncertainties and multiple missing measurements. International Journal of Robust and Nonlinear Control, 2016, 26, 3673-3695.	2.1	42
14	Data-driven bearing fault identification using improved hidden Markov model and self-organizing map. Computers and Industrial Engineering, 2018, 116, 37-46.	3.4	42
15	Stabilization of nonlinear networked systems with sensor random packet dropout and time-varying delay. Applied Mathematical Modelling, 2011, 35, 2253-2264.	2.2	41
16	Robust non-fragile state estimation for discrete-time genetic regulatory networks with Markov jump delays and uncertain transition probabilities. Neurocomputing, 2015, 154, 162-173.	3.5	40
17	Minimum variance estimation for linear uncertain systems with one-step correlated noises and incomplete measurements. , 2016, 49, 126-136.		31
18	Torus-Event-Based Fault Diagnosis for Stochastic Multirate Time-Varying Systems With Constrained Fault. IEEE Transactions on Cybernetics, 2020, 50, 2803-2813.	6.2	31

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19	Fault prediction for nonlinear stochastic system with incipient faults based on particle filter and nonlinear regression. ISA Transactions, 2017, 68, 327-334.	3.1	28
20	Increasing mapping based hidden Markov model for dynamic process monitoring and diagnosis. Expert Systems With Applications, 2014, 41, 744-751.	4.4	24
21	Exponential synchronization of switched genetic oscillators with time-varying delays. Journal of the Franklin Institute, 2014, 351, 4395-4414.	1.9	22
22	Diversified learning for continuous hidden Markov models with application to fault diagnosis. Expert Systems With Applications, 2015, 42, 9165-9173.	4.4	21
23	Delayed-state-derivative feedback for improving consensus performance of second-order delayed multi-agent systems. International Journal of Systems Science, 2012, 43, 140-152.	3.7	20
24	Stabilization of nonlinear networked probabilistic interval delay systems with sensor random packet dropout. Asian Journal of Control, 2012, 14, 466-475.	1.9	20
25	Distributed state estimation for stochastic nonlinear systems with random delays and packet dropouts. IET Control Theory and Applications, 2015, 9, 2657-2665.	1.2	20
26	Robust stability analysis for discrete-time genetic regulatory networks with probabilistic time delays. Neurocomputing, 2014, 124, 72-80.	3.5	19
27	Research on mean square exponential stability of networked control systems with multi-step delay. Applied Mathematical Modelling, 2006, 30, 941-950.	2.2	17
28	Robust fault detection filter design for networked control systems with delay distribution characterisation. International Journal of Systems Science, 2011, 42, 1661-1668.	3.7	17
29	Fault Detection for Networked Nonlinear Systems with Time Delays and Packet Dropouts. Circuits, Systems, and Signal Processing, 2012, 31, 329-345.	1.2	17
30	A novel cost function based on decomposing least-square support vector machine for Takagi-Sugeno fuzzy system identification. IET Control Theory and Applications, 2014, 8, 338-347.	1.2	17
31	A New Nonlinear Model-Based Fault Detection Method Using Mann-Whitney Test. IEEE Transactions on Industrial Electronics, 2020, 67, 10856-10864.	5.2	16
32	Improvement for consensus performance of multi-agent systems based on delayed-state-derivative feedback. Journal of Systems Engineering and Electronics, 2012, 23, 137-144.	1.1	15
33	Fault detection for discrete-time networked nonlinear systems with incomplete measurements. International Journal of Systems Science, 2013, 44, 2068-2081.	3.7	15
34	Robust Fault Detection for Nonlinear Networked Systems with Multiple Fading Measurements. Circuits, Systems, and Signal Processing, 2015, 34, 2873-2891.	1.2	15
35	Quasi T-S Fuzzy Models and Stable Controllers for Networked Control Systems. , 2006, , .		14
36	Fault Detection for Nonlinear Networked Control Systems with Markov Data Transmission Pattern. Circuits, Systems, and Signal Processing, 2012, 31, 1343-1358.	1.2	14

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37	Robust fault detection for networked control systems with nonlinear disturbances and imperfect measurements. <i>International Journal of Systems Science</i> , 2013, 44, 2027-2038.	3.7	14
38	Fault Detection for Nonlinear Systems with Unknown Input. <i>Asian Journal of Control</i> , 2013, 15, 1503-1509.	1.9	13
39	Fault estimation and prediction for nonlinear stochastic system with intermittent observations. <i>International Journal of Robust and Nonlinear Control</i> , 2018, 28, 1165-1181.	2.1	13
40	Fault detection for nonlinear networked systems with random packet dropout and probabilistic interval delay. <i>International Journal of Adaptive Control and Signal Processing</i> , 2011, 25, 1074-1086.	2.3	12
41	Fault Estimation for Nonlinear Networked Systems with Time-varying Delay and Random Packet Dropout. <i>Asian Journal of Control</i> , 2014, 16, 126-137.	1.9	12
42	Fault detection for nonlinear networked control systems with stochastic interval delay characterisation. <i>International Journal of Systems Science</i> , 2012, 43, 952-960.	3.7	11
43	Fault detection for a class of discrete-time nonlinear systems subject to network-induced uncertainties. <i>Asian Journal of Control</i> , 2012, 14, 1439-1448.	1.9	11
44	Fault detection for a class of networked nonlinear systems subject to imperfect measurements. <i>International Journal of Control, Automation and Systems</i> , 2012, 10, 265-274.	1.6	11
45	Adaptive Modified Input and State Estimation for Linear Discrete-Time System with Unknown Inputs. <i>Circuits, Systems, and Signal Processing</i> , 2017, 36, 3630-3649.	1.2	11
46	Robust estimator design for networked uncertain systems with imperfect measurements and uncertain-covariance noises. <i>Neurocomputing</i> , 2017, 230, 40-47.	3.5	11
47	Networked control system: state of the art. , 0, , .		10
48	Guaranteed cost control for networked control systems. <i>Journal of Control Theory and Applications</i> , 2004, 2, 143-148.	0.8	10
49	Kalman filter based FDI of networked control system. , 0, , .		10
50	Fault detection for networked systems subject to access constraints and packet dropouts. <i>Journal of Systems Engineering and Electronics</i> , 2011, 22, 127-134.	1.1	10
51	Multi-faults detection and estimation for nonlinear stochastic system based on particle filter and hypothesis test. <i>International Journal of Systems Science</i> , 2016, 47, 3812-3821.	3.7	10
52	Modified particle filter and Gaussian filter with packet dropouts. <i>International Journal of Robust and Nonlinear Control</i> , 2018, 28, 2961-2975.	2.1	10
53	Modified state prediction algorithm based on UKF. <i>Journal of Systems Engineering and Electronics</i> , 2013, 24, 135-140.	1.1	9
54	H _∞ -based fault detection for nonlinear networked systems with random packet dropout and probabilistic interval delay. <i>Journal of Systems Engineering and Electronics</i> , 2011, 22, 825-831.	1.1	8

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55	Integrated fault-tolerant control methodology for non-linear dynamical networked control systems subject to time-varying delay. IET Control Theory and Applications, 2014, 8, 535-545.	1.2	8
56	ARMAX model based run-to-run fault diagnosis approach for batch manufacturing process with metrology delay. International Journal of Production Research, 2014, 52, 2915-2930.	4.9	8
57	Quantized stabilization of discrete-time systems in a networked environment. Applied Mathematical Modelling, 2014, 38, 1685-1697.	2.2	8
58	Strong Tracking Filter-Based Fault Diagnosis of Networked Control System with Multiple Packet Dropouts and Parameter Perturbations. Circuits, Systems, and Signal Processing, 2016, 35, 2331-2350.	1.2	8
59	Stability of networked control systems with multi-step delay based on time-division algorithm. Journal of Control Theory and Applications, 2005, 3, 404-408.	0.8	7
60	Robust H-infinity fuzzy control for uncertain Markovian jump nonlinear singular systems with wiener process. Journal of Control Theory and Applications, 2010, 8, 205-210.	0.8	7
61	Fault detection for non-linear system with unknown input and state constraints. IET Signal Processing, 2013, 7, 800-806.	0.9	7
62	Stability analysis of stochastic swarm systems. Wuhan University Journal of Natural Sciences, 2007, 12, 506-510.	0.2	6
63	Obstacle Avoiding Policy of Multi-AUV Formation Based on Virtual AUV. , 2009, , .		6
64	Stability design for a class of nonlinear networked control systems. , 2011, , .		6
65	Constrained State Estimation for Nonlinear Systems with Unknown Input. Circuits, Systems, and Signal Processing, 2013, 32, 2199-2211.	1.2	6
66	Remaining Useful Life Prediction of Lithium-ion Battery Based on Unscented Kalman Filter and Back propagation Neural Network. , 2019, , .		6
67	Particle filter with Markovian packet dropout and time delay. Journal of the Franklin Institute, 2019, 356, 675-696.	1.9	6
68	Remaining useful life prediction of degraded system with the capability of uncertainty management. Mechanical Systems and Signal Processing, 2022, 177, 109166.	4.4	6
69	Adaptive stabilization of networked control systems with delays and state-dependent disturbances. , 2009, , .		5
70	HMM based modeling and health condition assessment for degradation process. , 2013, , .		5
71	On the equivalence between the unbiased minimum-variance estimation and the infinity augmented Kalman filter. International Journal of Control, 2020, 93, 2995-3002.	1.2	5
72	Modeling and stability analysis of social foraging swarms in multi-obstacle environment. Journal of Control Theory and Applications, 2006, 4, 343-348.	0.8	4

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73	Short Signatures for Multi-source Network Coding. , 2009, , .		4
74	Data-driven fault detection for networked control system based on implicit model approach. , 2016, , .		4
75	Robust H ∞ Filter Design for Networked Control System with Random Time Delays. , 0, , .		3
76	Reliable H ∞ Control for Nonlinear Systems Based on Fuzzy Control Switching. , 2007, , .		3
77	Information Push Technology and Its Application in Network Control System. , 2008, , .		3
78	Fault-tolerant control research on networked control systems with multiple-packet transmission. , 2009, , .		3
79	Control Strategy Design of Networked Control Systems Based on Maximum Allowable Delay Bounds. , 2007, , .		2
80	Fast distributed consensus control for second-order multi-agent systems. , 2010, , .		2
81	Finite-Time Fault Detection for Large-Scale Networked Systems with Randomly Occurring Nonlinearity and Fault. Mathematical Problems in Engineering, 2014, 2014, 1-14.	0.6	2
82	A novel hybrid model based on ensemble strategy for lithium-ion battery residual life prediction. , 2018, , .		2
83	Modeling and analysis of Networked control systems with network-induced delay and multiple-packet transmission. , 2008, , .		1
84	Robust H ∞ reliable control for uncertain singular stochastic fuzzy systems. , 2008, , .		1
85	Fault Diagnosis for Nonlinear Networked Control Systems Based on T-S Fuzzy Model. , 2009, , .		1
86	Second-order consensus in networks of agents with delayed dynamics. Wuhan University Journal of Natural Sciences, 2009, 14, 158-162.	0.2	1
87	Consensus of multi-agent system with communication delays by self-delay PD control. , 2010, , .		1
88	Observer-based Fuzzy Control for Nonlinear Networked Control Systems Based on T-S Fuzzy Model. , 2010, , .		1
89	Stability analysis of practical anisotropic swarms. , 2010, , .		1
90	Stability analysis of local swarms. , 2010, , .		1

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91	Hidden Markov model parameters estimation with independent multiple observations and inequality constraints. IET Signal Processing, 2014, 8, 938-949.	0.9	1
92	A novel fusion prognostic approach for the prediction of the remaining useful life of a lithiumion battery. , 2018, , .		1
93	A Hybrid Prognostic Approach Based on UKF and Optimized RBF. , 2019, , .		1
94	Improved Input and State Estimation for Linear Stochastic Systems with Direct Feedthrough. Asian Journal of Control, 2020, 22, 156-167.	1.9	1
95	Delay-dependent guaranteed cost control for uncertain systems with both state and input delays. Journal of Control Theory and Applications, 2004, 2, 339-344.	0.8	0
96	Co-design for NCS robust fault-tolerant control. , 0, , .		0
97	Robust reliable control for uncertain singular stochastic fuzzy systems with time-delay. , 2008, , .		0
98	Robust fuzzy control for uncertain Markovian jump nonlinear singular systems. , 2009, , .		0
99	Fault-tolerant control for networked control systems with network-induced delay and multiple packet transmission. , 2010, , .		0
100	Stability analysis of local swarms in an environment with a quadratic profile. , 2012, , .		0
101	Fault-Tolerant Control for Networked Control Systems with Imperfect Measurements*. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2012, 45, 1329-1334.	0.4	0
102	Fast Signature Scheme for Network Coding. Journal of Algorithms and Computational Technology, 2012, 6, 17-33.	0.4	0
103	Constrained Kalman Filtering with observation losses. , 2012, , .		0
104	Constrained kalman filtering for nonlinear dynamical systems with observation losses. , 2012, , .		0
105	Stability analysis of local swarms with attraction/repulsion force. Journal of Control Theory and Applications, 2013, 11, 489-494.	0.8	0
106	Fault detection for networked systems with randomly occurring nonlinearities via switched system approach. , 2013, , .		0
107	Optimal Design of Mobile Sensor Networks Based on Resource Constraint and Mobility. , 2013, , .		0
108	On the Asymptotic Stability of the Modified Input and State Estimation. , 2018, , .		0

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109	Research on Remaining Useful Life Prediction Based on Nonlinear Filtering for Lithium-ion Battery. , 2019, , .		0