

Zehui Mao

List of Publications by Year in descending order

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docs citations

79
times ranked

1223
citing authors

#	ARTICLE	IF	CITATIONS
1	Incipient Fault Diagnosis for High-Speed Train Traction Systems via Stacked Generalization. IEEE Transactions on Cybernetics, 2022, 52, 7624-7633.	9.5	32
2	Actuator fault detection for a two-stage chemical reactor based on the functional observer approach. Canadian Journal of Chemical Engineering, 2022, 100, 800-810.	1.7	0
3	Decentralised state feedback stabilisation for nonlinear interconnected systems using sliding mode control*. International Journal of Systems Science, 2022, 53, 1017-1030.	5.5	5
4	Actuator fault detection for the discrete-time switched systems based on delta operator approach. Optimal Control Applications and Methods, 2022, 43, 476-494.	2.1	2
5	Resilient Tracking Control for Unmanned Helicopter Under Variable Disturbance and Input Perturbation. International Journal of Control, Automation and Systems, 2022, 20, 147-159.	2.7	2
6	Cooperative fault estimation for a class of heterogeneous multi-agents with stochastic nonlinearities based on finite impulse response filter. International Journal of Robust and Nonlinear Control, 2022, 32, 4696-4715.	3.7	3
7	Spacecraft attitude tracking control based on MPC and fractional-order sliding mode control. , 2022, , .		1
8	Distributed Adaptive Fault-Tolerant Formation Control for Heterogeneous Multiagent Systems With Communication Link Faults. IEEE Transactions on Aerospace and Electronic Systems, 2022, , 1-11.	4.7	7
9	Adaptive Control Design and Evaluation for Multibody High-Speed Train Dynamic Models. IEEE Transactions on Control Systems Technology, 2021, 29, 1061-1074.	5.2	20
10	Fault-Tolerant Control for Systems With Unmatched Actuator Faults and Disturbances. IEEE Transactions on Automatic Control, 2021, 66, 1725-1732.	5.7	28
11	Fault Detection for A Class of Closed-loop Hypersonic Vehicle System via Hypothesis Test Method. International Journal of Control, Automation and Systems, 2021, 19, 350-362.	2.7	13
12	Zero dynamics analysis and adaptive tracking control of underactuated multibody systems with flexible links. International Journal of Control, 2021, 94, 1931-1943.	1.9	1
13	Fault-Tolerant Formation Tracking Control for Heterogeneous Multiagent Systems with Directed Topology. Research on World Agricultural Economy, 2021, 01, 2150001.	1.3	6
14	Decentralised Sliding Mode Tracking Control for a Class of Nonlinear Interconnected Systems**This work was supported by the National Natural Science Foundation of China under Grants 61922042 and 62020106003, China Scholarship Council for 3 years' study at the University of Kent, and Qing Lan Project., 2021, , .		1
15	A novel unknown input observer-based fault detection with application to a two-stage chemical reactor. International Journal of Adaptive Control and Signal Processing, 2021, 35, 1789-1804.	4.1	2
16	Fault-Tolerant Control for Spacecraft under Actuator Fault via Zero-Sum Differential Game Theory. , 2021, , .		1
17	Life Prediction of Rolling Bearing using Temporal Convolution Network and Attention Mechanism. , 2021, , .		0
18	TD-GAT: Graph Neural Network for Fault Diagnosis Knowledge Graph. , 2021, , .		1

#	ARTICLE	IF	CITATIONS
19	Construction and Reasoning Method of Fault Knowledge Graph with application of Engineering Machinery. , 2021, , .		1
20	Decentralized Sliding Mode Control for Output Tracking of Large-Scale Interconnected Systems. , 2021, , .		0
21	Fault Diagnosis based on Domain Adaptive Multi-task learning Convolutional Neural Network. , 2021, , .		0
22	Fault-tolerant Formation for Multi-UAV via Improved Artificial Potential Field Method. , 2021, , .		0
23	Adaptive Fault-Tolerant Sliding-Mode Control for High-Speed Trains With Actuator Faults and Uncertainties. IEEE Transactions on Intelligent Transportation Systems, 2020, 21, 2449-2460.	8.0	77
24	Adaptive observer design for nonlinear interconnected systems by the application of LaSalle's theorem. International Journal of Adaptive Control and Signal Processing, 2020, 34, 1559-1571.	4.1	5
25	Robust decentralised load frequency control for interconnected time delay power systems using sliding mode techniques. IET Control Theory and Applications, 2020, 14, 470-480.	2.1	38
26	Incipient Fault Detection for Traction Motors of High-Speed Railways Using an Interval Sliding Mode Observer. IEEE Transactions on Intelligent Transportation Systems, 2019, 20, 2703-2714.	8.0	65
27	Adaptive Backstepping Based Fault-tolerant Control for High-speed Trains with Actuator Faults. International Journal of Control, Automation and Systems, 2019, 17, 1408-1420.	2.7	37
28	Fault Diagnosis for Stator Inter-turn Short Circuit Fault of Traction Motors under Closed-loop Structure. , 2019, , .		0
29	Research on Fault Estimation and Fault-tolerant Control of Hypersonic Aircraft Based on Adaptive Observer. , 2019, , .		0
30	Fault Isolation Via Multiple-model Estimation for Traction Inverter with IGBT Open Circuit Fault. , 2019, , .		0
31	Observer Based Fault Estimation for Induction Motor with Stator Inter-turn Short Circuit Faults and Disturbances. , 2019, , .		1
32	Adaptive Sliding Mode Observer for Nonlinear Interconnected Systems with Time Varying Parameters. Asian Journal of Control, 2019, 21, 405-414.	3.0	8
33	Adaptive Actuator Compensation of Position Tracking for High-Speed Trains With Disturbances. IEEE Transactions on Vehicular Technology, 2018, 67, 5706-5717.	6.3	33
34	Fault Detection for a Class of Nonlinear Networked Control Systems with Communication Constraints. International Journal of Control, Automation and Systems, 2018, 16, 256-264.	2.7	17
35	Deep PCA Based Real-Time Incipient Fault Detection and Diagnosis Methodology for Electrical Drive in High-Speed Trains. IEEE Transactions on Vehicular Technology, 2018, 67, 4819-4830.	6.3	137
36	Decentralized Sliding Mode LFC for Nonlinear Interconnected Power System with Time Delay. , 2018, , .		2

#	ARTICLE	IF	CITATIONS
37	State and Parameter Estimation for a Class of Nonlinearly Parameterized Systems Using Sliding Mode Techniques. , 2018, , .		0
38	Adaptive Compensation of Traction System Actuator Failures for High-Speed Trains. IEEE Transactions on Intelligent Transportation Systems, 2017, 18, 2950-2963.	8.0	49
39	Incipient Voltage Sensor Fault Isolation for Rectifier in Railway Electrical Traction Systems. IEEE Transactions on Industrial Electronics, 2017, 64, 6763-6774.	7.9	46
40	Generalized Regular Form Based SMC for Nonlinear Systems With Application to a WMR. IEEE Transactions on Industrial Electronics, 2017, 64, 6714-6723.	7.9	27
41	Adaptive Observer Design for a Class of Nonlinear Interconnected Systems with Uncertain Time Varying Parameters. IFAC-PapersOnLine, 2017, 50, 1421-1426.	0.9	5
42	Sensor Fault Detection for Rail Vehicle Suspension Systems With Disturbances and Stochastic Noises. IEEE Transactions on Vehicular Technology, 2017, 66, 4691-4705.	6.3	64
43	Adaptive robust fault-tolerant control for linear MIMO systems with unmatched uncertainties. International Journal of Control, 2017, 90, 2253-2269.	1.9	8
44	Incipient sensor fault estimation and accommodation for inverter devices in electric railway traction systems. International Journal of Adaptive Control and Signal Processing, 2017, 31, 785-804.	4.1	18
45	Adaptive position tracking control of high-speed trains with piecewise dynamics. , 2017, , .		1
46	Decentralised Sliding Mode Control for Nonlinear Interconnected Systems in the Generalised Regular Form. IFAC-PapersOnLine, 2017, 50, 8850-8855.	0.9	1
47	Adaptive Position Tracking Compensation for High-Speed Trains with Actuator Failures * *This work was supported in part by the National Natural Science Foundation of China under Grant 61490703, Grant 61573180 and Grant 61374130.. IFAC-PapersOnLine, 2017, 50, 14266-14271.	0.9	1
48	Discrete wavelet transform based data trend prediction for marine diesel engine. , 2017, , .		3
49	Observer based fault estimation for inverter devices of traction systems with disturbance. , 2017, , .		3
50	Observer based fault diagnosis for induction motor with sensor faults and disturbances. , 2017, , .		0
51	EEMD based incipient fault diagnosis for sensors faults in high-speed train traction systems. , 2017, , .		3
52	Variable structure observer for a class of nonlinear large-scale interconnected systems with uncertainties. , 2016, , .		1
53	Decentralised sliding mode control for nonlinear interconnected systems in the regular form. , 2016, , .		2
54	Sliding mode observer based incipient sensor fault detection with application to high-speed railway traction device. ISA Transactions, 2016, 63, 49-59.	5.7	76

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55	Normal form and adaptive control of mimo non-canonical neural network systems. , 2016, , .		0
56	Data-based incipient actuator fault detection and diagnosis for three-phase PWM voltage source inverter. , 2016, , .		6
57	Fault diagnosis for a class of active suspension systems with dynamic actuatorsâ€™ faults. International Journal of Control, Automation and Systems, 2016, 14, 1160-1172.	2.7	18
58	Fault detection for a class of stochastic systems with unknown disturbance. , 2015, , .		0
59	Sliding mode control for a class of nonlinear systems with application to a wheeled mobile robot. , 2015, , .		11
60	Trajectory tracking control of a two-wheeled mobile robot using sliding mode techniques. , 2015, , .		4
61	Multiple-model Based fault diagnosis for actuators of rail vehicle suspension. , 2015, , .		2
62	Fault Detection for a Class of Nonlinear Networked Control Systems with Markov Transfer Delays and Stochastic Packet Drops. Circuits, Systems, and Signal Processing, 2015, 34, 1211-1231.	2.0	18
63	Observer-based fault detection for Rail Vehicle Suspension Systems. , 2014, , .		1
64	Modelling and fault tolerant control for near space vehicles with vertical tail loss. IET Control Theory and Applications, 2014, 8, 718-727.	2.1	9
65	Adaptive backstepping fault tolerant control for near space vehicles. , 2014, , .		2
66	Fault detection for a class of nonlinear networked control systems with transferred delays. , 2013, , .		0
67	Observer-based Reliable Control for Discrete Time Systems: An Average Dwell Time Approach. Asian Journal of Control, 2012, 14, 1625-1633.	3.0	4
68	Sliding Mode Observer-Based Fault Estimation for Nonlinear Networked Control Systems. Circuits, Systems, and Signal Processing, 2011, 30, 1-16.	2.0	67
69	Observer-based fault-tolerant control for a class of networked control systems with transfer delays. Journal of the Franklin Institute, 2011, 348, 763-776.	3.4	54
70	Fault detection for a class of nonlinear networked control systems. International Journal of Adaptive Control and Signal Processing, 2010, 24, 610-622.	4.1	12
71	H _∞ filter design for a class of networked control systems via T-S fuzzy model approach. , 2010, , .		0
72	H _∞ -Filter Design for a Class of Networked Control Systems Via T-S Fuzzy-Model Approach. IEEE Transactions on Fuzzy Systems, 2010, 18, 201-208.	9.8	158

#	ARTICLE	IF	CITATIONS
73	A fault-tolerant control framework for a class of non-linear networked control systems. International Journal of Systems Science, 2009, 40, 449-460.	5.5	28
74	Protocol and Fault Detection Design for Nonlinear Networked Control Systems. IEEE Transactions on Circuits and Systems II: Express Briefs, 2009, 56, 255-259.	3.0	72
75	Fault-tolerant control design for a kind of nonlinear networked control system with communication constraints. , 2009, , .		4
76	High gain observer-based fault estimation for nonlinear networked control systems. , 2008, , .		6
77	Fault Detection for Networked Control Systems with Time delays Based on Unknown Input Observer. , 2007, , .		0
78	Fault-tolerant Control for MIMO Networked Control Systems with Uncertainties. , 2006, , .		3
79	Fault Accommodation For a Class of Nonlinear Flight Control Systems. , 0, , .		8