

Ping Zhang

List of Publications by Year in descending order

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78
papers

2,958
citations

304743
22
h-index

302126
39
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78
all docs

78
docs citations

78
times ranked

1894
citing authors

#	ARTICLE	IF	CITATIONS
1	A comparison study of basic data-driven fault diagnosis and process monitoring methods on the benchmark Tennessee Eastman process. Journal of Process Control, 2012, 22, 1567-1581.	3.3	1,110
2	Subspace method aided data-driven design of fault detection and isolation systems. Journal of Process Control, 2009, 19, 1496-1510.	3.3	276
3	An Integrated Design Framework of Fault-Tolerant Wireless Networked Control Systems for Industrial Automatic Control Applications. IEEE Transactions on Industrial Informatics, 2013, 9, 462-471.	11.3	127
4	On the application of PCA technique to fault diagnosis. Tsinghua Science and Technology, 2010, 15, 138-144.	6.1	125
5	A Generic Strategy for Fault-Tolerance in Control Systems Distributed Over a Network. European Journal of Control, 2007, 13, 280-296.	2.6	119
6	Fault detection of linear discrete-time periodic systems. IEEE Transactions on Automatic Control, 2005, 50, 239-244.	5.7	110
7	Detection of covert attacks and zero dynamics attacks in cyber-physical systems. , 2016, , .		72
8	An integrated trade-off design of observer based fault detection systems. Automatica, 2008, 44, 1886-1894.	5.0	68
9	Study on modifications of PLS approach for process monitoring. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2011, 44, 12389-12394.	0.4	63
10	Fault detection for multirate sampled-data systems with time delays. International Journal of Control, 2002, 75, 1457-1471.	1.9	59
11	Detection of replay attacks in cyber-physical systems. , 2016, , .		58
12	Disturbance decoupling in fault detection of linear periodic systems. Automatica, 2007, 43, 1410-1417.	5.0	56
13	Recursive identification algorithms to design fault detection systems. Journal of Process Control, 2010, 20, 957-965.	3.3	47
14	Detection of covert attacks on cyber-physical systems by extending the system dynamics with an auxiliary system. , 2017, , .		43
15	A frequency domain approach to fault detection in sampled-data systems. Automatica, 2003, 39, 1303-1307.	5.0	42
16	Modeling and detection of cyber attacks on discrete event systems. IFAC-PapersOnLine, 2018, 51, 285-290.	0.9	42
17	Finite Horizon Tracking Control of Boolean Control Networks. IEEE Transactions on Automatic Control, 2018, 63, 1798-1805.	5.7	42
18	On the relationship between parity space and approaches to fault detection. Systems and Control Letters, 2006, 55, 94-100.	2.3	38

#	ARTICLE	IF	CITATIONS
19	Parity relation based fault estimation for nonlinear systems: An LMI approach. International Journal of Automation and Computing, 2007, 4, 164-168.	4.5	36
20	Fault detection of networked control systems with packet based periodic communication. International Journal of Adaptive Control and Signal Processing, 2009, 23, 682-698.	4.1	35
21	A Lifting Based Approach to Observer Based Fault Detection of Linear Periodic Systems. IEEE Transactions on Automatic Control, 2012, 57, 457-462.	5.7	33
22	An embedded fault detection, isolation and accommodation system in a model predictive controller for an industrial benchmark process. Computers and Chemical Engineering, 2008, 32, 2966-2985.	3.8	28
23	Fault detection of networked control systems with limited communication. International Journal of Control, 2009, 82, 1344-1356.	1.9	28
24	Reduced-Order Observer Design for Boolean Control Networks. IEEE Transactions on Automatic Control, 2020, 65, 434-441.	5.7	27
25	Observer and reference governor based control strategy to suppress stick-slip vibrations in oil well drill-string. Journal of Sound and Vibration, 2019, 457, 37-50.	3.9	24
26	Overview of fault-tolerant control methods for discrete event systems. IFAC-PapersOnLine, 2018, 51, 88-95.	0.9	22
27	Reconstructibility Analysis and Observer Design for Boolean Control Networks. IEEE Transactions on Control of Network Systems, 2020, 7, 516-528.	3.7	19
28	FAULT DETECTION OF NETWORKED CONTROL SYSTEMS WITH LIMITED COMMUNICATION. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2006, 39, 1074-1079.	0.4	16
29	Observer design for Boolean control networks. , 2016, , .		15
30	Influence of Sampling Period on a Class of Optimal Fault-Detection Performance. IEEE Transactions on Automatic Control, 2009, 54, 1396-1402.	5.7	14
31	Fault detection for probabilistic boolean networks. , 2016, , .		12
32	Identification of Boolean Network Models From Time Series Data Incorporating Prior Knowledge. Frontiers in Physiology, 2018, 9, 695.	2.8	12
33	An LMI approach to robust fault detection filter design for discrete-time systems with model uncertainty. , 0, , .		11
34	Fault-tolerant tracking control of petri nets. Automatisierungstechnik, 2018, 66, 30-40.	0.8	8
35	Modeling of Cyber Attacks and a Time Guard Detection for ICS based on Discrete Event Systems. , 2019, , .		8
36	Beobachtergestützte Überwachung vernetzter regelungstechnischer Systeme (Observer Schemes for Tj ETQq0,0 0 rgBT7/Overlock		

#	ARTICLE	IF	CITATIONS
37	Resilience of Cyber-Physical Systems to Covert Attacks by Exploiting an Improved Encryption Scheme. , 2020, , .		7
38	Unknown input decoupling and estimation in observer design for Boolean control networks * *This work is supported by the Federal State of Rhineland- Palatinate, Germany in the framework of the project Complex Data Analysis in Life Sciences and Biotechnology (BioComp)".. IFAC-PapersOnLine, 2017, 50, 2917-2922.	0.9	6
39	Identification of boolean control networks incorporating prior knowledge. , 2017, , .		6
40	Active Fault Detection of Boolean Control Networks. , 2018, , .		6
41	Controller encryption for discrete event systems. , 2019, , .		6
42	Completely stealthy attacks on cyber-physical system with parity space based monitoring. , 2019, , .		6
43	Fault Detection of Networked Control Systems With Limited Communication. , 2007, , 1074-1079.		6
44	Beobachtergestützte Detektion von Fehlern in linearen zeitvarianten Systemen (Observer-based Fault) Tj ETQq0 0.8 rgBT /Overlock 10		6
45	Detection of Cyber Attacks in Encrypted Control Systems. , 2022, 6, 2365-2370.		6
46	Resilient Homomorphic Encryption Scheme for Cyber-Physical Systems. , 2021, , .		6
47	PARITY RELATION BASED FAULT ESTIMATION FOR NONLINEAR SYSTEMS: AN LMI APPROACH 1. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2006, 39, 366-371.	0.4	4
48	Finite horizon tracking control of Boolean control networks. , 2016, , .		4
49	A time-frequency domain fault detection approach based on parity relation and wavelet transform. , 0, , .		3
50	Distributed observer design for large-scale Boolean control networks. , 2017, , .		3
51	Tracking control for Petri nets with forbidden states. , 2018, , .		3
52	Overview and comparison of approaches towards an algebraic description of discrete event systems. Annual Reviews in Control, 2019, 48, 80-88.	7.9	3
53	Tracking Control for Petri Nets based on Monte-Carlo Tree Search. , 2019, , .		3
54	Stealthy Local Covert Attacks on Cyber-Physical Systems. , 2020, , .		3

#	ARTICLE	IF	CITATIONS
55	Prozessidentifikations-basierter Entwurf beobachtergestützter Fehlerdetektionssysteme (System) Tj ETQq1 1 0.784314 rgBT /Overlock 10 2004, 52, 388-396.	0.8	3
56	Fault Tolerant Control for Hexacopter with Reducing Yaw Rate. , 2019, , .		2
57	Tracking Controller Design for Petri Nets with Inputs and Outputs. , 2020, , .		2
58	A Monte-Carlo Tree Search based Tracking Control Approach for Timed Petri Nets. IFAC-PapersOnLine, 2020, 53, 2095-2100.	0.9	2
59	Parity based fault estimation for nonlinear systems: an LMI approach. , 2006, , .		1
60	On monotonicity of a class of optimal fault detection performance versus sampling period. , 2007, , .		1
61	Optimization of Maintenance Schedule for Safety Instrumented Systems. IFAC-PapersOnLine, 2017, 50, 12484-12489.	0.9	1
62	A novel and fast MPC based control strategy for switched linear systems including soft switching cost. , 2017, , .		1
63	Decentralized scenario-based plug and play MPC for linear systems with multiplicative uncertainties. Journal of Physics: Conference Series, 2017, 783, 012023.	0.4	1
64	Curve form based quantization of short time series data. , 2019, , .		1
65	Resilience and Detection of Cyber-Physical Systems to Covert Attacks by exploiting Frequency Hopping Spread Spectrum. , 2021, , .		1
66	Specification governor for fault tolerant control of large-scale manufacturing systems. European Journal of Control, 2021, 62, 198-205.	2.6	1
67	Optimal Scheduling of Preventive Maintenance for Safety Instrumented Systems Based on Mixed-Integer Programming. Lecture Notes in Computer Science, 2020, , 83-96.	1.3	1
68	Stealthy Targeted Local Covert Attacks on Cyber-Physical Systems. , 2021, , .		1
69	FAULT DETECTION OF DESCRIPTOR SYSTEMS. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2006, 39, 378-383.	0.4	0
70	Networked Fault Detection Systems with Noisy Data Transmission (Vernetzte Fehlerdetektionssysteme) Tj ETQq0 0.0 rgBT /Overlock 10	0.8	0
71	Properties of certain optimal ratio-type fault detection performance indices with respect to sampling period. IFAC-PapersOnLine, 2015, 48, 919-924.	0.9	0
72	Ein neuer Ansatz zur Verfügbarkheitsanalyse von Sicherheitseinrichtungen. Automatisierungstechnik, 2016, 64, 457-466.	0.8	0

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73	Scenario based MPC for decentralized switched systems with Plug and Play capabilities. , 2017, , .		0
74	Secure estimation and attack detection in cyber-physical systems with switching attack. , 2018, , .		0
75	An improved algorithm for stabilization of Boolean networks via pinning control. , 2019, , .		0
76	An Approach to Design Distributed Logic Controllers for Large-Scale Manufacturing Systems. , 2021, , .		0
77	Data-Driven Controller Design for Boolean Control Networks. , 2018, , .		0
78	State Estimation in Discrete Event Systems Modeled by Signal Interpreted Petri Nets. , 2022, 6, 2078-2083.		0