Nader Meskin

List of Publications by Year
in descending order

247 papers	4,592 citations	117625 34 h-index	144013 57 g-index
257 all docs	257 docs citations	257 times ranked	3099 citing authors

#	Article	IF	Citations
1	Simultaneous fault detection and consensus control design for a network of multi-agent systems. Automatica, 2016, 66, 185-194.	5.0	174
2	Actuator Fault Detection and Isolation for a Network of Unmanned Vehicles. IEEE Transactions on Automatic Control, 2009, 54, 835-840.	5.7	171
3	Sensor Fault Detection, Isolation, and Identification Using Multiple-Model-Based Hybrid Kalman Filter for Gas Turbine Engines. IEEE Transactions on Control Systems Technology, 2016, 24, 1184-1200.	5.2	166
4	Cybersecurity for industrial control systems: A survey. Computers and Security, 2020, 89, 101677.	6.0	133
5	Fault Detection and Isolation of discrete-time Markovian jump linear systems with application to a network of multi-agent systems having imperfect communication channels. Automatica, 2009, 45, 2032-2040.	5.0	128
6	Fault detection and isolation of a dual spool gas turbine engine using dynamic neural networks and multiple model approach. Information Sciences, 2014, 259, 234-251.	6.9	121
7	SCADA System Testbed for Cybersecurity Research Using Machine Learning Approach. Future Internet, 2018, 10, 76.	3.8	98
8	A component map tuning method for performance prediction and diagnostics of gas turbine compressors. Applied Energy, 2014, 135, 572-585.	10.1	96
9	Distributed state estimation, fault detection and isolation filter design for heterogeneous multi‐agent linear parameter‐varying systems. IET Control Theory and Applications, 2017, 11, 254-262.	2.1	96
10	A Multiple Model-Based Approach for Fault Diagnosis of Jet Engines. IEEE Transactions on Control Systems Technology, 2013, 21, 254-262.	5.2	86
11	Adaptive sliding mode observer for sensor fault diagnosis of an industrial gas turbine. Control Engineering Practice, 2015, 38, 57-74.	5.5	79
12	Transient Gas Turbine Performance Diagnostics Through Nonlinear Adaptation of Compressor and Turbine Maps. Journal of Engineering for Gas Turbines and Power, 2015, 137, .	1.1	76
13	Closed-loop control of anesthesia and mean arterial pressure using reinforcement learning. Biomedical Signal Processing and Control, 2015, 22, 54-64.	5.7	70
14	A dynamic prognosis scheme for flexible operation of gas turbines. Applied Energy, 2016, 164, 686-701.	10.1	70
15	Sensor fault detection and isolation of an industrial gas turbine using partial adaptive KPCA. Journal of Process Control, 2018, 64, 37-48.	3.3	70
16	Robust fault detection and isolation of time-delay systems using a geometric approach. Automatica, 2009, 45, 1567-1573.	5.0	67
17	Reinforcement learning-based control of drug dosing for cancer chemotherapy treatment. Mathematical Biosciences, 2017, 293, 11-20.	1.9	67
18	Event-Triggered Multiobjective Control and Fault Diagnosis: A Unified Framework. IEEE Transactions on Industrial Informatics, 2017, 13, 298-311.	11.3	66

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19	A Dual-Isolation-Forests-Based Attack Detection Framework for Industrial Control Systems. IEEE Access, 2020, 8, 36639-36651.	4.2	64
20	A Geometric Approach to Fault Detection and Isolation of Continuous-Time Markovian Jump Linear Systems. IEEE Transactions on Automatic Control, 2010, 55, 1343-1357.	5.7	60
21	Event–triggered fault detection and isolation for discrete–time linear systems. IET Control Theory and Applications, 2016, 10, 526-533.	2.1	60
22	A Comprehensive Review of the Cyber-Attacks and Cyber-Security on Load Frequency Control of Power Systems. Energies, 2020, 13, 3860.	3.1	60
23	Nonlinear Fault Diagnosis of Jet Engines by Using a Multiple Model-Based Approach. Journal of Engineering for Gas Turbines and Power, 2012, 134, .	1.1	58
24	Neural network-based model predictive control system for optimizing building automation and management systems of sports facilities. Applied Energy, 2022, 318, 119153.	10.1	53
25	Sensor data validation and fault diagnosis using Auto-Associative Neural Network for HVAC systems. Journal of Building Engineering, 2020, 27, 100935.	3.4	50
26	Multiple-Model Sensor and Components Fault Diagnosis in Gas Turbine Engines Using Autoassociative Neural Networks. Journal of Engineering for Gas Turbines and Power, 2014, 136, .	1.1	49
27	Fault Detection and Isolation. , 2011, , .		48
28	Performance and energy optimization of building automation and management systems: Towards smart sustainable carbon-neutral sports facilities. Renewable and Sustainable Energy Reviews, 2022, 162, 112401.	16.4	48
29	Nonlinear Suboptimal Tracking Controller Design Using State-Dependent Riccati Equation Technique. IEEE Transactions on Control Systems Technology, 2017, 25, 1833-1839.	5.2	45
30	A Hybrid Fault Detection and Isolation Strategy for a Network of Unmanned Vehicles in Presence of Large Environmental Disturbances. IEEE Transactions on Control Systems Technology, 2010, , .	5.2	42
31	State-space LPV model identification using kernelized machine learning. Automatica, 2018, 88, 38-47.	5.0	42
32	Crosstalk between HER2 and PD-1/PD-L1 in Breast Cancer: From Clinical Applications to Mathematical Models. Cancers, 2020, 12, 636.	3.7	40
33	Fault–tolerant control of non–linear systems based on adaptive virtual actuator. IET Control Theory and Applications, 2017, 11, 1371-1379.	2.1	39
34	A Distributed Control Reconfiguration and Accommodation for Consensus Achievement of Multiagent Systems Subject to Actuator Faults. IEEE Transactions on Control Systems Technology, 2016, 24, 2031-2047.	5.2	37
35	Derivative-driven window-based regression method for gas turbine performance prognostics. Energy, 2017, 128, 302-311.	8.8	37
36	Prognosis and Health Monitoring of Nonlinear Systems Using a Hybrid Scheme Through Integration of PFs and Neural Networks. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2017, 47, 1990-2004.	9.3	37

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37	A review of mathematical model-based scenario analysis and interventions for COVID-19. Computer Methods and Programs in Biomedicine, 2021, 209, 106301.	4.7	37
38	Fault Detection and Isolation of Distributed Time-Delay Systems. IEEE Transactions on Automatic Control, 2009, 54, 2680-2685.	5.7	34
39	Event-Triggered Suboptimal Tracking Controller Design for a Class of Nonlinear Discrete-Time Systems. IEEE Transactions on Industrial Electronics, 2017, 64, 8079-8087.	7.9	34
40	Fault-tolerant control of nonlinear heterogeneous multi-agent systems. Automatica, 2021, 127, 109514.	5.0	34
41	Multiple sensor fault diagnosis by evolving data-driven approach. Information Sciences, 2014, 259, 346-358.	6.9	33
42	Application of data-driven attack detection framework for secure operation in smart buildings. Sustainable Cities and Society, 2021, 69, 102816.	10.4	33
43	An <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" id="mml5" display="inline" overflow="scroll" altimg="si5.gif"><mml:msub><mml:mrow><mml:mi>H</mml:mi></mml:mrow><mml:mrow><mml:mi>âˆž</mml:mi></mml:mrow></mml:msub></mml:math> cooperative fault recovery control of multi-agent systems. Automatica, 2017, 84, 101-108.	5.0	31
44	A Kernel-Based PCA Approach to Model Reduction of Linear Parameter-Varying Systems. IEEE Transactions on Control Systems Technology, 2016, 24, 1883-1891.	5.2	30
45	A Negative Selection Immune System Inspired Methodology for Fault Diagnosis of Wind Turbines. IEEE Transactions on Cybernetics, 2017, 47, 3799-3813.	9.5	30
46	Dynamic performance simulation and control of gas turbines used for hybrid gas/wind energy applications. Applied Thermal Engineering, 2019, 147, 122-142.	6.0	30
47	Eventâ€Triggered Fault Detection for Networked Control Systems Subject to Packet Dropout. Asian Journal of Control, 2018, 20, 2195-2206.	3.0	28
48	An improved robust model predictive control for linear parameterâ€varying inputâ€output models. International Journal of Robust and Nonlinear Control, 2018, 28, 859-880.	3.7	27
49	Multiscale Denoising of Biological Data: A Comparative Analysis. IEEE/ACM Transactions on Computational Biology and Bioinformatics, 2012, 9, 1539-1545.	3.0	26
50	Robust sensor fault detection and isolation of gas turbine engines subjected to time-varying parameter uncertainties. Mechanical Systems and Signal Processing, 2016, 76-77, 136-156.	8.0	26
51	Reinforcement learning-based control of tumor growth under anti-angiogenic therapy. Computer Methods and Programs in Biomedicine, 2019, 173, 15-26.	4.7	25
52	A Cyber-Security Methodology for a Cyber-Physical Industrial Control System Testbed. IEEE Access, 2021, 9, 16239-16253.	4.2	25
53	Dynamic Performance Simulation of an Aeroderivative Gas Turbine Using the Matlab Simulink Environment. , 2013, , .		24
54	A Robust MPC for Input-Output LPV Models. IEEE Transactions on Automatic Control, 2016, 61, 4183-4188.	5.7	24

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55	Optimal adaptive control of drug dosing using integral reinforcement learning. Mathematical Biosciences, 2019, 309, 131-142.	1.9	24
56	Distributed reconfigurable control strategies for switching topology networked multi-agent systems. ISA Transactions, 2017, 71, 51-67.	5.7	23
57	A Dendritic Cell Immune System Inspired Scheme for Sensor Fault Detection and Isolation of Wind Turbines. IEEE Transactions on Industrial Informatics, 2018, 14, 545-555.	11.3	23
58	Fault-tolerant control of linear systems using adaptive virtual actuator. International Journal of Control, 2019, 92, 1729-1741.	1.9	23
59	Event-triggered simultaneous fault detection and tracking control for multi-agent systems. International Journal of Control, 2019, 92, 1928-1944.	1.9	23
60	Fault Detection and Isolation of Actuator Faults in Spacecraft Formation Flight. , 2006, , .		22
61	Fault Detection and Isolation of Actuator Faults in Overactuated Systems. Proceedings of the American Control Conference, 2007, , .	0.0	22
62	Multiple-model based sensor fault diagnosis using hybrid kalman filter approach for nonlinear gas turbine engines. , 2013, , .		21
63	Parameter Estimation of Biological Phenomena: An Unscented Kalman Filter Approach. IEEE/ACM Transactions on Computational Biology and Bioinformatics, 2013, 10, 537-543.	3.0	21
64	Distributed simultaneous fault detection and leader-following consensus control for multi-agent systems. ISA Transactions, 2019, 87, 129-142.	5.7	21
65	Platoon Transitional Maneuver Control System: A Review. IEEE Access, 2021, 9, 88327-88347.	4.2	21
66	Event-triggered robust fault diagnosis and control of linear Roesser systems: A unified framework. Automatica, 2021, 128, 109575.	5.0	21
67	A Dual Particle Filter-Based Fault Diagnosis Scheme for Nonlinear Systems. IEEE Transactions on Control Systems Technology, 2018, 26, 1317-1334.	5.2	20
68	Automatic blood glucose control for type 1 diabetes: A trade-off between postprandial hyperglycemia and hypoglycemia. Biomedical Signal Processing and Control, 2019, 54, 101603.	5.7	20
69	Reinforcement learning-based decision support system for COVID-19. Biomedical Signal Processing and Control, 2021, 68, 102676.	5.7	20
70	A Bayesian Approach for LPV Model Identification and Its Application to Complex Processes. IEEE Transactions on Control Systems Technology, 2017, 25, 2160-2167.	5.2	19
71	Finite-Time Stability Under Denial of Service. IEEE Systems Journal, 2021, 15, 1048-1055.	4.6	19
72	Fault Detection and Isolation of Linear Impulsive Systems. IEEE Transactions on Automatic Control, 2011, 56, 1905-1910.	5.7	18

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73	Sensor Fault Detection and Isolation via Networked Estimation: Full-Rank Dynamical Systems. IEEE Transactions on Control of Network Systems, 2021, 8, 987-996.	3.7	18
74	Fault Detection and Isolation in a redundant reaction wheels configuration of a satellite. , 2007, , .		17
75	Sensor Fault Detection and Isolation of an Industrial Gas Turbine Using Partial Kernel PCA. IFAC-PapersOnLine, 2015, 48, 1389-1396.	0.9	17
76	Output Feedback Fault‐Tolerant Control of Heterogeneous Multi‐Agent Systems. Asian Journal of Control, 2021, 23, 949-961.	3.0	17
77	Geometric fault detection and isolation of two-dimensional (2D) systems. , 2013, , .		16
78	A Bayesian approach for estimation of linear-regression LPV models. , 2014, , .		16
79	Simultaneous fault detection and control design for a network of multi-agent systems. , 2014, , .		16
80	Distributed fault detection and isolation filter design for heterogeneous multi-agent LPV systems. , 2017, , .		16
81	A Kernel-based Approach to MIMO LPV State-space Identification and Application to a Nonlinear Process System. IFAC-PapersOnLine, 2015, 48, 85-90.	0.9	15
82	Robust consensus of autonomous underactuated surface vessels. IET Control Theory and Applications, 2017, 11, 486-494.	2.1	15
83	Fault Diagnosis of Jet Engines by Using a Multiple Model-Based Approach. , 2010, , .		14
84	A general multicompartment lung mechanics model with nonlinear resistance and compliance respiratory parameters. , 2014, , .		14
85	A hybrid prognosis and health monitoring strategy by integrating particle filters and neural networks for gas turbine engines. , 2015, , .		14
86	Fault detection and isolation of two-dimensional (2D) systems. Systems and Control Letters, 2017, 99, 25-32.	2.3	14
87	A New Approach to Robust MPC Design for LPV Systems in Input-Output Form. IFAC-PapersOnLine, 2018, 51, 112-117.	0.9	14
88	Intervention in Biological Phenomena Modeled by S-Systems. IEEE Transactions on Biomedical Engineering, 2011, 58, 1260-1267.	4.2	13
89	An Efficient Component Map Generation Method for Prediction of Gas Turbine Performance. , 2014, , .		13
90	An output‐feedback adaptive control architecture for mitigating actuator attacks in cyber‐physical systems. International Journal of Adaptive Control and Signal Processing, 2019, 33, 943-955.	4.1	13

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91	Distributed Fast Fault Detection in DC Microgrids. IEEE Systems Journal, 2022, 16, 440-451.	4.6	13
92	Observer-Based Leader-Following Consensus for Linear Multiagent Systems With a Leader of Unknown Input. IEEE Systems Journal, 2021, 15, 95-104.	4.6	13
93	Distributed Event-Triggered Consensus-Based Control of DC Microgrids in Presence of DoS Cyber Attacks. IEEE Access, 2021, 9, 54009-54021.	4.2	13
94	Event-triggered fault detection, isolation and control design of linear systems. , 2015, , .		12
95	Event-triggered control for discrete-time linear parameter-varying systems. , 2016, , .		12
96	A nonovershooting tracking controller for simultaneous infusion of anesthetics and analgesics. Biomedical Signal Processing and Control, 2019, 49, 375-387.	5.7	12
97	Model-Free Geometric Fault Detection and Isolation for Nonlinear Systems Using Koopman Operator. IEEE Access, 2022, 10, 14835-14845.	4.2	12
98	Hybrid fault detection and isolation strategy for non-linear systems in the presence of large environmental disturbances. IET Control Theory and Applications, 2010, 4, 2879-2895.	2.1	11
99	Fuzzy Intervention in Biological Phenomena. IEEE/ACM Transactions on Computational Biology and Bioinformatics, 2012, 9, 1819-1825.	3.0	11
100	Fault-tolerant control of multi-agent systems based on adaptive fault hiding framework. , 2017, , .		11
101	Event-triggered constant reference tracking control for discrete-time LPV systems with application to a laboratory tank system. IET Control Theory and Applications, 2017, 11, 2680-2687.	2.1	11
102	A single dynamic observer-based module for design of simultaneous fault detection, isolation and tracking control scheme. International Journal of Control, 2018, 91, 508-523.	1.9	11
103	Ensemble Kalman Filters for State Estimation and Prediction of Two-Time Scale Nonlinear Systems With Application to Gas Turbine Engines. IEEE Transactions on Control Systems Technology, 2019, 27, 2565-2573.	5.2	11
104	Mathematical Models of Cancer and Different Therapies. Series in Bioengineering, 2021, , .	0.6	11
105	Fault-Tolerant Control of One-Sided Lipschitz Nonlinear Systems. , 2022, 6, 1460-1465.		11
106	A geometric approach to robust Fault Detection and Isolation of discrete-time Markovian jump systems. , 2008, , .		10
107	A novel particle filter parameter prediction scheme for failure prognosis. , 2014, , .		10
108	LEARNING-BASED CONTROL OF CANCER CHEMOTHERAPY TREATMENT. IFAC-PapersOnLine, 2017, 50, 15127-15132.	0.9	10

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109	An improved particle filtering-based approach for health prediction and prognosis of nonlinear systems. Journal of the Franklin Institute, 2018, 355, 3753-3794.	3.4	10
110	Event-triggered fault detection for discrete-time LPV systems with application to a laboratory tank system. International Journal of Adaptive Control and Signal Processing, 2018, 32, 1591-1606.	4.1	10
111	Health Monitoring and Degradation Prognostics in Gas Turbine Engines Using Dynamic Neural Networks. , 2015, , .		9
112	An MPC approach for LPV systems in input-output form. , 2015, , .		9
113	On design of suboptimal tracking controller for a class of nonlinear systems. , 2016, , .		9
114	Adaptive sliding mode–based diagnosis of actuator faults for LPV systems. International Journal of Adaptive Control and Signal Processing, 2017, 31, 1265-1272.	4.1	9
115	Determination of Security Index for Linear Cyber-Physical Systems Subject to Malicious Cyber Attacks. , 2019, , .		9
116	Parameter estimation of biological phenomena modeled by S-systems: An Extended Kalman filter approach. , 2011, , .		8
117	Robust cooperative control reconfiguration/recovery in multi-agent systems. , 2014, , .		8
118	Cost performance based control reconfiguration in multi-agent systems. , 2014, , .		8
119	Stochastic event-triggered particle filtering for state estimation. , 2016, , .		8
120	Multi-zone HVAC control system design using feedback linearization. , 2017, , .		8
121	Design and real-time implementation of actuator fault-tolerant control for differential-drive mobile robots based on multiple-model approach. Proceedings of the Institution of Mechanical Engineers Part I: Journal of Systems and Control Engineering, 2018, 232, 652-661.	1.0	8
122	Fault detection in modular multilevel converter using principle component analysis. , 2018, , .		8
123	Nonlinear Geometric Approach to Fault Detection and Isolation in an Aircraft Nonlinear Longitudinal Model. Proceedings of the American Control Conference, 2007, , .	0.0	7
124	Nonlinear Fault Diagnosis of Jet Engines by Using a Multiple Model-Based Approach. , 2011, , .		7
125	Simultaneous fault detection and control design for an autonomous unmanned underwater vehicle. , 2013, , .		7
126	Particle filtering for state and parameter estimation in gas turbine engine fault diagnostics. , 2013, , .		7

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127	A support vector machine-based method for LPV-ARX identification with noisy scheduling parameters. , 2014, , .		7
128	Parameter Set-mapping using kernel-based PCA for linear parameter-varying systems. , 2014, , .		7
129	Simultaneous fault detection, isolation and control tracking design using a single observer-based module. , 2014, , .		7
130	Simultaneous actuator fault estimation and fault-tolerant tracking control for multi-agent systems: a sliding-mode observer-based approach. International Journal of Control, 2022, 95, 447-460.	1.9	7
131	Mission independent fault‐tolerant control of heterogeneous linear multiagent systems based on adaptive virtual actuator. International Journal of Adaptive Control and Signal Processing, 2021, 35, 401-419.	4.1	7
132	Novel Actuator Fault Diagnosis Framework for Multizone HVAC Systems Using 2-D Convolutional Neural Networks. IEEE Transactions on Automation Science and Engineering, 2022, 19, 1985-1996.	5.2	7
133	Flow‐based intrusion detection algorithm for supervisory control and data acquisition systems: A real‐time approach. IET Cyber-Physical Systems: Theory and Applications, 2021, 6, 178-191.	3.3	7
134	A Modular Approach for a Patient Unit for Extracorporeal Membrane Oxygenation Simulator. Membranes, 2021, 11, 424.	3.0	7
135	Multi-layer switching control. , 0, , .		6
136	A geometric approach to Fault Detection and Isolation of neutral time-delay systems. , 2008, , .		6
137	Unobservability Subspaces For Continuous-time Markovian Jump Systems with Application to Fault Diagnosis. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2009, 42, 953-958.	0.4	6
138	Event-triggered fault detection for discrete-time linear systems. , 2015, , .		6
139	An IV-SVM-based approach for identification of state-space LPV models under generic noise conditions. , 2015, , .		6
140	Event-triggered fault detection for discrete-time linear multi-agent systems. , 2016, , .		6
141	Robust distributed consensus of autonomous underwater vehicles in 3D space. , 2016, , .		6
142	Event-triggered fault detection for discrete-time LPV systems. , 2016, , .		6
143	Actuator fault detection and isolation of differential drive mobile robots using multiple model algorithm. , 2017, , .		6
144	Adaptive cooperative control of nonlinear multi-agent systems with uncertain time-varying control directions and dead-zone nonlinearity. Neurocomputing, 2021, 464, 151-163.	5.9	6

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145	Reinforcement Learning-Based Control of Signalized Intersections Having Platoons. IEEE Access, 2022, 10, 17683-17696.	4.2	6
146	Fault detection and isolation of the wind turbine based on the real-valued negative selection algorithm. , 2013, , .		5
147	Fault detection and isolation of Riesz spectral systems: A geometric approach. , 2014, , .		5
148	Integrated fault detection, isolation and control design for continuous-time Markovian jump systems with uncertain transition probabilities. , 2014, , .		5
149	Sensor fault detection and isolation of an autonomous underwater vehicle using partial kernel PCA. , 2015, , .		5
150	An adaptive sliding mode observer for linear systems under malicious attack. , 2016, , .		5
151	A geometric approach to fault detection and isolation of multi-dimensional (n-D) systems. Multidimensional Systems and Signal Processing, 2017, 28, 1653-1678.	2.6	5
152	Reinforcement learning-based control for combined infusion of sedatives and analgesics. , 2017, , .		5
153	Integrated design of fault detection, isolation, and control for continuousâ€time Markovian jump systems. International Journal of Adaptive Control and Signal Processing, 2017, 31, 1903-1919.	4.1	5
154	Performance assessment of classical and fractional controllers for transient operation of gas turbine engines. IFAC-PapersOnLine, 2018, 51, 687-692.	0.9	5
155	Reinforcement learning-based control of drug dosing with applications to anesthesia and cancer therapy. , 2020, , 251-297.		5
156	A Functional Unknown Input Observer for Linear Singular Fornasiniâ€“Marchesini First Model Systems: With Application to Fault Diagnosis. IEEE Systems Journal, 2021, 15, 4093-4104.	4.6	5
157	Simultaneous Distributed Estimation and Attack Detection/Isolation in Social Networks: Structural Observability, Kronecker-Product Network, and Chi-Square Detector. , 2021, , .		5
158	Fault Detection and Isolation of Retarded Time-Delay Systems Using A Geometric Approach. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2008, 41, 7326-7331.	0.4	4
159	Fault Consensus in a Network of Unmanned Vehicles. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2009, 42, 1001-1006.	0.4	4
160	Sensor fault detection and isolation using multiple robust filters for linear systems with time-varying parameter uncertainty and error variance constraints. , 2014, , .		4
161	Fault detection and isolation of Fornasini-Marchesini 2D systems: A geometric approach. , 2014, , .		4
162	Output feedback sliding mode control for a linear multi-compartment lung mechanics system. International Journal of Control, 2014, , 1-12.	1.9	4

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163	Event-triggered simultaneous fault detection and consensus control for linear multi-agent systems. , 2016, , .		4
164	LPV model development and control of a solution copolymerization reactor. Control Engineering Practice, 2016, 48, 98-110.	5.5	4
165	Reconfigurable control of linear systems based on state feedback adaptive virtual actuator. , 2017, , .		4
166	Event-triggered based consensus of autonomous underactuated surface vessels. , 2017, , .		4
167	Actuator Fault Tolerant Control in a Team of Mobile Robots. , 2018, , .		4
168	Advanced Thermochromic Ink System for Medical Blood Simulation. Membranes, 2021, 11, 520.	3.0	4
169	HVAC system attack detection dataset. Data in Brief, 2021, 37, 107166.	1.0	4
170	Control Barrier Function-based Lateral Control of Autonomous Vehicle for Roundabout Crossing. , 2021, , .		4
171	LPV modeling of nonlinear systems: A multiâ€path feedback linearization approach. International Journal of Robust and Nonlinear Control, 2021, 31, 9436-9465.	3.7	4
172	Fault tolerant cooperative control for UAV rendezvous problem subject to actuator faults. , 2007, , .		3
173	Fault detection and isolation of linear impulsive systems. , 2009, , .		3
174	Finite Unobservability Subspaces for Time-Delay Systems with Application to Fault Detection and Isolation. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2009, 42, 215-220.	0.4	3
175	A Bayesian approach for model identification of LPV systems with uncertain scheduling variables. , 2015, , .		3
176	Event-triggered fault estimation and accommodation design for linear systems. , 2016, , .		3
177	Adaptive sliding mode control for a general nonlinear multicompartment lung model with input pressure and rate saturation constraints. International Journal of Robust and Nonlinear Control, 2016, 26, 719-736.	3.7	3
178	Design of small autonomous boat for course-keeping manuevers. , 2017, , .		3
179	Actuator Fault Estimation for Multi-agent Systems: A Sliding-mode Observer-based Approach. , 2019, , .		3
180	Mitigation and Resiliency of Multi-Agent Systems Subject to Malicious Cyber Attacks on Communication Links. , 2020, , .		3

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181	Actuator Fault Diagnosis in Multi-Zone HVAC Systems using 2D Convolutional Neural Networks. , 2020, , .		3
182	Fault Detection and Isolation Strategy for a Network of Unmanned Vehicles in Presence of Large Environmental Disturbances. , 2009, , .		2
183	Wavelet-based Multiscale Filtering of Genomic Data. , 2012, , .		2
184	Multiple sensor fault diagnosis for non-linear and dynamic system by evolving approach. , 2012, , .		2
185	Output-feedback sliding mode control for a linear multicompartment lung mechanics system. , 2013, , .		2
186	Closed-loop control of anesthesia and mean arterial pressure using reinforcement learning. , 2014, , .		2
187	Robust Hybrid EKF approach for state estimation in multi-scale nonlinear singularly perturbed systems. , 2014, , .		2
188	Direct adaptive disturbance rejection control for sedation and analgesia. , 2014, , .		2
189	Optimal Control of Midazolam Infusion for Post Operative Patients in Intensive Care Units. Asian Journal of Control, 2015, 17, 675-686.	3.0	2
190	Reduced LPV model development and control of a solution copolymerization reactor. , 2015, , .		2
191	A Mechanistic Neural Field Theory of How Anesthesia Suppresses Consciousness: Synaptic Drive Dynamics, Bifurcations, Attractors, and Partial State Equipartitioning. Journal of Mathematical Neuroscience, 2015, 5, 20.	2.4	2
192	Performance-based prognosis scheme for industrial gas turbines. , 2015, , .		2
193	A sensor fault detection and isolation strategy by using a Dendritic Cell Algorithm. , 2016, , .		2
194	The characterization of the kinematic and dynamic properties of the ankle joint for an artificial ankle joint design. , 2016, , .		2
195	Global stabilization of autonomous underactuated underwater vehicles in 3D space. , 2016, , .		2
196	Control reconfiguration for multiple autonomous vehicles subject to actuator faults and disturbances. , 2016, , .		2
197	Stochastic model predictive control for LPV systems. , 2017, , .		2
198	Stochastic model predictive tracking of piecewise constant references for LPV systems. IET Control Theory and Applications, 2017, 11, 1862-1872.	2.1	2

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199	An EMG signal processing system for control of an ankle-foot orthosis. , 2017, , .		2
200	Fault tolerant control of differential drive mobile robots using sliding mode controller. , 2017, , .		2
201	Fast Fault Detection of Synchronous Generators. , 2019, , .		2
202	Protocol-Based Particle Filtering and Divergence Estimation. IEEE Systems Journal, 2021, 15, 4537-4544.	4.6	2
203	IoTâ€based mock oxygenator for extracorporeal membrane oxygenation simulator. Artificial Organs, 2022, 46, 2135-2146.	1.9	2
204	MPC-Based Virtual Inertia Control of Islanded Microgrid Load Frequency Control and DoS Attack Vulnerability Analysis. , 2022, , .		2
205	A Nonlinear Geometric Fault Detection and Isolation Approach for Almost-Lighter-Than-Air-Vehicles. Control Applications (CCA), Proceedings of the IEEE International Conference on, 2007, , .	0.0	1
206	Fault Diagnosis in a Network of Unmanned Aerial Vehicles with Imperfect Communication Channels. , 2009, , .		1
207	Intervention in biological phenomena modeled by S-systems: A model predictive control approach. , 2011, , .		1
208	Output-feedback model predictive control of biological phenomena modeled by S-systems. , 2012, , .		1
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