

Nader Meskin

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/8664475/publications.pdf>

Version: 2024-02-01

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 actuator fault estimation and fault-tolerant tracking control for multi-agent systems: a sliding-mode observer-based approach. <i>International Journal of Control</i> , 2022, 95, 447-460.	1.9	7
2	Distributed Fast Fault Detection in DC Microgrids. <i>IEEE Systems Journal</i> , 2022, 16, 440-451.	4.6	13
3	Novel Actuator Fault Diagnosis Framework for Multizone HVAC Systems Using 2-D Convolutional Neural Networks. <i>IEEE Transactions on Automation Science and Engineering</i> , 2022, 19, 1985-1996.	5.2	7
4	Fault-Tolerant Control of One-Sided Lipschitz Nonlinear Systems. , 2022, 6, 1460-1465.		11
5	Model-Free Geometric Fault Detection and Isolation for Nonlinear Systems Using Koopman Operator. <i>IEEE Access</i> , 2022, 10, 14835-14845.	4.2	12
6	Reinforcement Learning-Based Control of Signalized Intersections Having Platoons. <i>IEEE Access</i> , 2022, 10, 17683-17696.	4.2	6
7	Modified Particle Filters for Detection of False Data Injection Attacks and State Estimation in Networked Nonlinear Systems. <i>IEEE Access</i> , 2022, 10, 32728-32741.	4.2	0
8	Performance and energy optimization of building automation and management systems: Towards smart sustainable carbon-neutral sports facilities. <i>Renewable and Sustainable Energy Reviews</i> , 2022, 162, 112401.	16.4	48
9	Neural network-based model predictive control system for optimizing building automation and management systems of sports facilities. <i>Applied Energy</i> , 2022, 318, 119153.	10.1	53
10	IoT-based mock oxygenator for extracorporeal membrane oxygenation simulator. <i>Artificial Organs</i> , 2022, 46, 2135-2146.	1.9	2
11	MPC-Based Virtual Inertia Control of Islanded Microgrid Load Frequency Control and DoS Attack Vulnerability Analysis. , 2022, , .		2
12	Observer-Based Leader-Following Consensus for Linear Multiagent Systems With a Leader of Unknown Input. <i>IEEE Systems Journal</i> , 2021, 15, 95-104.	4.6	13
13	Output Feedback Fault-Tolerant Control of Heterogeneous Multi-Agent Systems. <i>Asian Journal of Control</i> , 2021, 23, 949-961.	3.0	17
14	Finite-Time Stability Under Denial of Service. <i>IEEE Systems Journal</i> , 2021, 15, 1048-1055.	4.6	19
15	Protocol-Based Particle Filtering and Divergence Estimation. <i>IEEE Systems Journal</i> , 2021, 15, 4537-4544.	4.6	2
16	Mission independent fault-tolerant control of heterogeneous linear multiagent systems based on adaptive virtual actuator. <i>International Journal of Adaptive Control and Signal Processing</i> , 2021, 35, 401-419.	4.1	7
17	Mathematical Models of Cancer and Different Therapies. <i>Series in Bioengineering</i> , 2021, , .	0.6	11
18	Sensor Fault Detection and Isolation via Networked Estimation: Full-Rank Dynamical Systems. <i>IEEE Transactions on Control of Network Systems</i> , 2021, 8, 987-996.	3.7	18

#	ARTICLE	IF	CITATIONS
19	Event-triggered particle filtering and Cram�r Rao lower bound computation. Proceedings of the Institution of Mechanical Engineers Part I: Journal of Systems and Control Engineering, 2021, 235, 503-516.	1.0	0
20	A Functional Unknown Input Observer for Linear Singular Fornasini-Marchesini First Model Systems: With Application to Fault Diagnosis. IEEE Systems Journal, 2021, 15, 4093-4104.	4.6	5
21	Distributed Event-Triggered Consensus-Based Control of DC Microgrids in Presence of DoS Cyber Attacks. IEEE Access, 2021, 9, 54009-54021.	4.2	13
22	Platoon Transitional Maneuver Control System: A Review. IEEE Access, 2021, 9, 88327-88347.	4.2	21
23	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
24	Fault-tolerant control of nonlinear heterogeneous multi-agent systems. Automatica, 2021, 127, 109514.	5.0	34
25	A Modular Approach for a Patient Unit for Extracorporeal Membrane Oxygenation Simulator. Membranes, 2021, 11, 424.	3.0	7
26	Application of data-driven attack detection framework for secure operation in smart buildings. Sustainable Cities and Society, 2021, 69, 102816.	10.4	33
27	Event-triggered robust fault diagnosis and control of linear Roesser systems: A unified framework. Automatica, 2021, 128, 109575.	5.0	21
28	Reinforcement learning-based decision support system for COVID-19. Biomedical Signal Processing and Control, 2021, 68, 102676.	5.7	20
29	Advanced Thermochromic Ink System for Medical Blood Simulation. Membranes, 2021, 11, 520.	3.0	4
30	HVAC system attack detection dataset. Data in Brief, 2021, 37, 107166.	1.0	4
31	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
32	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
33	A Novel Proportional Navigation Based Method for Robotic Interception Planning With Final Velocity Control. IEEE Access, 2021, 9, 106428-106440.	4.2	1
34	A Thermochromic Ink Heater-cooler Color Change System for Medical Blood Simulation. , 2021, , .		1
35	A Cyber-Security Methodology for a Cyber-Physical Industrial Control System Testbed. IEEE Access, 2021, 9, 16239-16253.	4.2	25
36	Simultaneous Distributed Estimation and Attack Detection/Isolation in Social Networks: Structural Observability, Kronecker-Product Network, and Chi-Square Detector. , 2021, , .		5

#	ARTICLE	IF	CITATIONS
37	Control Barrier Function-based Lateral Control of Autonomous Vehicle for Roundabout Crossing. , 2021, , .		4
38	LPV modeling of nonlinear systems: A multi- ϵ -path feedback linearization approach. International Journal of Robust and Nonlinear Control, 2021, 31, 9436-9465.	3.7	4
39	Towards Privacy Preserving Consensus Control in Multi-Agent Cyber-Physical Systems Subject to Cyber Attacks. , 2021, , .		0
40	A Special Class of Zero Dynamics Cyber-Attacks for SISO Time-Delay Systems. , 2021, , .		1
41	Sensor data validation and fault diagnosis using Auto-Associative Neural Network for HVAC systems. Journal of Building Engineering, 2020, 27, 100935.	3.4	50
42	Cybersecurity for industrial control systems: A survey. Computers and Security, 2020, 89, 101677.	6.0	133
43	A Comprehensive Review of the Cyber-Attacks and Cyber-Security on Load Frequency Control of Power Systems. Energies, 2020, 13, 3860.	3.1	60
44	Mitigation and Resiliency of Multi-Agent Systems Subject to Malicious Cyber Attacks on Communication Links. , 2020, , .		3
45	Actuator Fault Diagnosis in Multi-Zone HVAC Systems using 2D Convolutional Neural Networks. , 2020, , .		3
46	Reinforcement learning-based control of drug dosing with applications to anesthesia and cancer therapy. , 2020, , 251-297.		5
47	Crosstalk between HER2 and PD-1/PD-L1 in Breast Cancer: From Clinical Applications to Mathematical Models. Cancers, 2020, 12, 636.	3.7	40
48	A Dual-Isolation-Forests-Based Attack Detection Framework for Industrial Control Systems. IEEE Access, 2020, 8, 36639-36651.	4.2	64
49	Robust Anomaly Detection Based on a Dynamical Observer for Continuous Linear Roesser Systems. IFAC-PapersOnLine, 2020, 53, 664-669.	0.9	0
50	Fault Tolerant Controller Schemes for Single and Multiple Mobile Robots. Advances in Intelligent Systems and Computing, 2020, , 3-56.	0.6	1
51	Distributed Event-Triggered Consensus-Based Control for Current Sharing and Voltage Stabilization of DC Microgrids. IFAC-PapersOnLine, 2020, 53, 12912-12917.	0.9	1
52	Fault-Tolerant Fully Distributed Leader-Following Consensus for Linear Multi-agent Systems with Non-cooperative Leader. IFAC-PapersOnLine, 2020, 53, 4076-4081.	0.9	0
53	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
54	An output- ϵ -feedback adaptive control architecture for mitigating actuator attacks in cyber- ϵ -physical systems. International Journal of Adaptive Control and Signal Processing, 2019, 33, 943-955.	4.1	13

#	ARTICLE	IF	CITATIONS
55	Reinforcement learning-based control of tumor growth under anti-angiogenic therapy. <i>Computer Methods and Programs in Biomedicine</i> , 2019, 173, 15-26.	4.7	25
56	Optimal adaptive control of drug dosing using integral reinforcement learning. <i>Mathematical Biosciences</i> , 2019, 309, 131-142.	1.9	24
57	Fast Fault Detection of Synchronous Generators. , 2019, , .		2
58	Determination of Security Index for Linear Cyber-Physical Systems Subject to Malicious Cyber Attacks. , 2019, , .		9
59	Sensor Fault Diagnosis of Multi-Zone HVAC Systems Using Auto-Associative Neural Network. , 2019, , .		1
60	Finite Frequency Fault Diagnosis for Heterogeneous Multi-agent LPV Systems. , 2019, , .		1
61	Actuator Fault Estimation for Multi-agent Systems: A Sliding-mode Observer-based Approach. , 2019, , .		3
62	Distributed simultaneous fault detection and leader-following consensus control for multi-agent systems. <i>ISA Transactions</i> , 2019, 87, 129-142.	5.7	21
63	Ensemble Kalman Filters for State Estimation and Prediction of Two-Time Scale Nonlinear Systems With Application to Gas Turbine Engines. <i>IEEE Transactions on Control Systems Technology</i> , 2019, 27, 2565-2573.	5.2	11
64	A nonovershooting tracking controller for simultaneous infusion of anesthetics and analgesics. <i>Biomedical Signal Processing and Control</i> , 2019, 49, 375-387.	5.7	12
65	Dynamic performance simulation and control of gas turbines used for hybrid gas/wind energy applications. <i>Applied Thermal Engineering</i> , 2019, 147, 122-142.	6.0	30
66	Fault-tolerant control of linear systems using adaptive virtual actuator. <i>International Journal of Control</i> , 2019, 92, 1729-1741.	1.9	23
67	Event-triggered simultaneous fault detection and tracking control for multi-agent systems. <i>International Journal of Control</i> , 2019, 92, 1928-1944.	1.9	23
68	Sensor fault detection and isolation of an industrial gas turbine using partial adaptive KPCA. <i>Journal of Process Control</i> , 2018, 64, 37-48.	3.3	70
69	State-space LPV model identification using kernelized machine learning. <i>Automatica</i> , 2018, 88, 38-47.	5.0	42
70	Event-triggered Fault Detection for Networked Control Systems Subject to Packet Dropout. <i>Asian Journal of Control</i> , 2018, 20, 2195-2206.	3.0	28
71	An improved particle filtering-based approach for health prediction and prognosis of nonlinear systems. <i>Journal of the Franklin Institute</i> , 2018, 355, 3753-3794.	3.4	10
72	A single dynamic observer-based module for design of simultaneous fault detection, isolation and tracking control scheme. <i>International Journal of Control</i> , 2018, 91, 508-523.	1.9	11

#	ARTICLE	IF	CITATIONS
73	A Dual Particle Filter-Based Fault Diagnosis Scheme for Nonlinear Systems. IEEE Transactions on Control Systems Technology, 2018, 26, 1317-1334.	5.2	20
74	An improved robust model predictive control for linear parameter-varying input-output models. International Journal of Robust and Nonlinear Control, 2018, 28, 859-880.	3.7	27
75	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
76	Performance assessment of classical and fractional controllers for transient operation of gas turbine engines. IFAC-PapersOnLine, 2018, 51, 687-692.	0.9	5
77	Adaptive Sliding Mode Fault Diagnosis for LPV Systems with Uncertain Scheduling Variables. , 2018, , .		1
78	A Nonovershooting Controller with Integral Action for Multi-input Multi-output Drug Dosing Control. IFAC-PapersOnLine, 2018, 51, 60-65.	0.9	1
79	A New Approach to Robust MPC Design for LPV Systems in Input-Output Form. IFAC-PapersOnLine, 2018, 51, 112-117.	0.9	14
80	Actuator Fault Tolerant Control in a Team of Mobile Robots. , 2018, , .		4
81	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
82	Design and implementation of autonomous surface vehicle. , 2018, , .		1
83	SCADA System Testbed for Cybersecurity Research Using Machine Learning Approach. Future Internet, 2018, 10, 76.	3.8	98
84	Voltage control in distribution networks using current source converter STATCOM based on state feedback controller and Kalman filter. , 2018, , .		1
85	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
86	Fault detection in modular multilevel converter using principle component analysis. , 2018, , .		8
87	Event-Triggered Multiobjective Control and Fault Diagnosis: A Unified Framework. IEEE Transactions on Industrial Informatics, 2017, 13, 298-311.	11.3	66
88	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
89	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
90	Fault-tolerant control of nonlinear systems based on adaptive virtual actuator. IET Control Theory and Applications, 2017, 11, 1371-1379.	2.1	39

#	ARTICLE	IF	CITATIONS
91	Distributed reconfigurable control strategies for switching topology networked multi-agent systems. ISA Transactions, 2017, 71, 51-67.	5.7	23
92	Derivative-driven window-based regression method for gas turbine performance prognostics. Energy, 2017, 128, 302-311.	8.8	37
93	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
94	Fault detection and isolation of two-dimensional (2D) systems. Systems and Control Letters, 2017, 99, 25-32.	2.3	14
95	Reinforcement learning-based control of drug dosing for cancer chemotherapy treatment. Mathematical Biosciences, 2017, 293, 11-20.	1.9	67
96	An H^{∞} cooperative fault recovery control of multi-agent systems. Automatica, 2017, 84, 101-108.	5.0	31
97	Reconfigurable control of linear systems based on state feedback adaptive virtual actuator. , 2017, , .		4
98	Stochastic model predictive control for LPV systems. , 2017, , .		2
99	Stochastic model predictive tracking of piecewise constant references for LPV systems. IET Control Theory and Applications, 2017, 11, 1862-1872.	2.1	2
100	Fault-tolerant control of multi-agent systems based on adaptive fault hiding framework. , 2017, , .		11
101	Distributed fault detection and isolation filter design for heterogeneous multi-agent LPV systems. , 2017, , .		16
102	Nonlinear Suboptimal Tracking Controller Design Using State-Dependent Riccati Equation Technique. IEEE Transactions on Control Systems Technology, 2017, 25, 1833-1839.	5.2	45
103	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
104	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
105	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
106	A Negative Selection Immune System Inspired Methodology for Fault Diagnosis of Wind Turbines. IEEE Transactions on Cybernetics, 2017, 47, 3799-3813.	9.5	30
107	An EMG signal processing system for control of an ankle-foot orthosis. , 2017, , .		2
108	Fault tolerant control of differential drive mobile robots using sliding mode controller. , 2017, , .		2

#	ARTICLE	IF	CITATIONS
109	Event-triggered based consensus of autonomous underactuated surface vessels. , 2017, , .		4
110	Multi-zone HVAC control system design using feedback linearization. , 2017, , .		8
111	LEARNING-BASED CONTROL OF CANCER CHEMOTHERAPY TREATMENT. IFAC-PapersOnLine, 2017, 50, 15127-15132.	0.9	10
112	Reinforcement learning-based control for combined infusion of sedatives and analgesics. , 2017, , .		5
113	On design of nonlinear event-triggered suboptimal tracking controller. , 2017, , .		0
114	Actuator fault detection and isolation of differential drive mobile robots using multiple model algorithm. , 2017, , .		6
115	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
116	Design of small autonomous boat for course-keeping maneuvers. , 2017, , .		3
117	Event-triggered fault detection for networked control systems subject to packet dropout. , 2017, , .		1
118	Integrated design of fault detection, isolation, and control for continuous-time Markovian jump systems. International Journal of Adaptive Control and Signal Processing, 2017, 31, 1903-1919.	4.1	5
119	Adaptive distributed fault diagnosis design for large-scale networks of nonlinear systems. , 2017, , .		1
120	A new ankle foot orthosis: Modeling and control. , 2017, , .		0
121	Sensor fault detection and isolation of an industrial gas turbine using partial block-wise adaptive kernel PCA. , 2017, , .		1
122	Robust consensus of autonomous underactuated surface vessels. IET Control Theory and Applications, 2017, 11, 486-494.	2.1	15
123	A Neural Field Theory for Loss of Consciousness. , 2016, , 93-162.		1
124	A sensor fault detection and isolation strategy by using a Dendritic Cell Algorithm. , 2016, , .		2
125	Design of a hydraulic ankle-foot orthosis. , 2016, , .		1
126	An adaptive sliding mode observer for linear systems under malicious attack. , 2016, , .		5

#	ARTICLE	IF	CITATIONS
127	Non-parametric identification of linear parameter-varying spatially-interconnected systems using an LS-SVM approach. , 2016, , .		1
128	Fault detection of infinite dimensional systems in presence of disturbances. , 2016, , .		1
129	The characterization of the kinematic and dynamic properties of the ankle joint for an artificial ankle joint design. , 2016, , .		2
130	A Robust MPC for Input-Output LPV Models. IEEE Transactions on Automatic Control, 2016, 61, 4183-4188.	5.7	24
131	Event-triggered fault detection and isolation for discrete-time linear systems. IET Control Theory and Applications, 2016, 10, 526-533.	2.1	60
132	Global stabilization of autonomous underactuated underwater vehicles in 3D space. , 2016, , .		2
133	Suboptimal control reconfiguration in switched multi-agent networked systems. , 2016, , .		1
134	Control reconfiguration for multiple autonomous vehicles subject to actuator faults and disturbances. , 2016, , .		2
135	On design of suboptimal tracking controller for a class of nonlinear systems. , 2016, , .		9
136	Event-triggered fault detection for discrete-time linear multi-agent systems. , 2016, , .		6
137	Event-triggered control for discrete-time linear parameter-varying systems. , 2016, , .		12
138	Consensus of autonomous underactuated surface vessels. , 2016, , .		1
139	State-dependent adaptive dynamic programming for a class of continuous-time nonlinear systems. , 2016, , .		1
140	Robust distributed consensus of autonomous underwater vehicles in 3D space. , 2016, , .		6
141	Development of LPV models and switching LPV-H ∞ controller for a hydraulic system. , 2016, , .		0
142	Event-triggered fault detection for discrete-time LPV systems. , 2016, , .		6
143	Event-triggered fault estimation and accommodation design for linear systems. , 2016, , .		3
144	Event-triggered simultaneous fault detection and consensus control for linear multi-agent systems. , 2016, , .		4

#	ARTICLE	IF	CITATIONS
145	Stochastic event-triggered particle filtering for state estimation. , 2016, , .		8
146	Forecasting the health of gas turbine components through an integrated performance-based approach. , 2016, , .		1
147	Simultaneous fault detection and consensus control design for a network of multi-agent systems. Automatica, 2016, 66, 185-194.	5.0	174
148	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
149	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
150	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
151	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
152	A dynamic prognosis scheme for flexible operation of gas turbines. Applied Energy, 2016, 164, 686-701.	10.1	70
153	LPV model development and control of a solution copolymerization reactor. Control Engineering Practice, 2016, 48, 98-110.	5.5	4
154	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
155	Linear Parameter-Varying Control of a Copolymerization Reactor. IFAC-PapersOnLine, 2015, 48, 200-206.	0.9	0
156	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
157	A hybrid prognosis and health monitoring strategy by integrating particle filters and neural networks for gas turbine engines. , 2015, , .		14
158	Event-triggered fault detection for discrete-time linear systems. , 2015, , .		6
159	Health Monitoring and Degradation Prognostics in Gas Turbine Engines Using Dynamic Neural Networks. , 2015, , .		9
160	A Bayesian approach for model identification of LPV systems with uncertain scheduling variables. , 2015, , .		3
161	Optimal Control of Midazolam Infusion for Post Operative Patients in Intensive Care Units. Asian Journal of Control, 2015, 17, 675-686.	3.0	2
162	An IV-SVM-based approach for identification of state-space LPV models under generic noise conditions. , 2015, , .		6

#	ARTICLE	IF	CITATIONS
163	Partial synchronization of biological neural networks and the anesthetic cascade. , 2015, , .		0
164	Event-triggered fault detection, isolation and control design of linear systems. , 2015, , .		12
165	An MPC approach for LPV systems in input-output form. , 2015, , .		9
166	Reduced LPV model development and control of a solution copolymerization reactor. , 2015, , .		2
167	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
168	A novel affine qLPV model derivation method for fault diagnosis H _∞ performance improvement. , 2015, , .		1
169	A Mechanistic neural mean field theory of how anesthesia suppresses consciousness: Synaptic drive dynamics, system stability, bifurcations, and attractors. , 2015, , .		0
170	Optimal Determination of Respiratory Airflow Patterns for a General Multicompartment Lung Mechanics System With Nonlinear Resistance and Compliance Parameters. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2015, 137, .	1.6	1
171	Adaptive sliding mode observer for sensor fault diagnosis of an industrial gas turbine. Control Engineering Practice, 2015, 38, 57-74.	5.5	79
172	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
173	Closed-loop control of anesthesia and mean arterial pressure using reinforcement learning. Biomedical Signal Processing and Control, 2015, 22, 54-64.	5.7	70
174	Sensor fault detection and isolation of an autonomous underwater vehicle using partial kernel PCA. , 2015, , .		5
175	Performance-based prognosis scheme for industrial gas turbines. , 2015, , .		2
176	Sensor Fault Detection and Isolation of an Industrial Gas Turbine Using Partial Kernel PCA. IFAC-PapersOnLine, 2015, 48, 1389-1396.	0.9	17
177	Sensor fault detection and isolation using multiple robust filters for linear systems with time-varying parameter uncertainty and error variance constraints. , 2014, , .		4
178	A support vector machine-based method for LPV-ARX identification with noisy scheduling parameters. , 2014, , .		7
179	Closed-loop control of anesthesia and mean arterial pressure using reinforcement learning. , 2014, , .		2
180	Robust Hybrid EKF approach for state estimation in multi-scale nonlinear singularly perturbed systems. , 2014, , .		2

#	ARTICLE	IF	CITATIONS
181	An Efficient Component Map Generation Method for Prediction of Gas Turbine Performance. , 2014, , .		13
182	Adaptive sliding mode control for a general nonlinear multicompartment lung model with input pressure and rate saturation constraints. , 2014, , .		0
183	A Bayesian approach for estimation of linear-regression LPV models. , 2014, , .		16
184	Fault detection and isolation of Fornasini-Marchesini 2D systems: A geometric approach. , 2014, , .		4
185	Parameter Set-mapping using kernel-based PCA for linear parameter-varying systems. , 2014, , .		7
186	A novel particle filter parameter prediction scheme for failure prognosis. , 2014, , .		10
187	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
188	Multiple sensor fault diagnosis by evolving data-driven approach. Information Sciences, 2014, 259, 346-358.	6.9	33
189	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
190	Direct adaptive disturbance rejection control for sedation and analgesia. , 2014, , .		2
191	A general multicompartment lung mechanics model with nonlinear resistance and compliance respiratory parameters. , 2014, , .		14
192	A component map tuning method for performance prediction and diagnostics of gas turbine compressors. Applied Energy, 2014, 135, 572-585.	10.1	96
193	Output feedback sliding mode control for a linear multi-compartment lung mechanics system. International Journal of Control, 2014, , 1-12.	1.9	4
194	Simultaneous fault detection and control design for a network of multi-agent systems. , 2014, , .		16
195	Simultaneous fault detection, isolation and control tracking design using a single observer-based module. , 2014, , .		7
196	Robust cooperative control reconfiguration/recovery in multi-agent systems. , 2014, , .		8
197	Cost performance based control reconfiguration in multi-agent systems. , 2014, , .		8
198	Fault detection and isolation of Riesz spectral systems: A geometric approach. , 2014, , .		5

#	ARTICLE	IF	CITATIONS
199	Integrated fault detection, isolation and control design for continuous-time Markovian jump systems with uncertain transition probabilities. , 2014, , .		5
200	Output-feedback sliding mode control for a linear multicompartment lung mechanics system. , 2013, , .		2
201	Multiple-model based sensor fault diagnosis using hybrid kalman filter approach for nonlinear gas turbine engines. , 2013, , .		21
202	Fault detection and isolation of the wind turbine based on the real-valued negative selection algorithm. , 2013, , .		5
203	Optimal control of midazolam infusion for post operative patients in intensive care units. , 2013, , .		1
204	Simultaneous fault detection and control design for an autonomous unmanned underwater vehicle. , 2013, , .		7
205	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
206	A Multiple Model-Based Approach for Fault Diagnosis of Jet Engines. IEEE Transactions on Control Systems Technology, 2013, 21, 254-262.	5.2	86
207	Particle filtering for state and parameter estimation in gas turbine engine fault diagnostics. , 2013, , .		7
208	Dynamic Performance Simulation of an Aeroderivative Gas Turbine Using the Matlab Simulink Environment. , 2013, , .		24
209	Application of genetic algorithm in selection of dominant input variables in sensor fault diagnosis of nonlinear systems. , 2013, , .		1
210	Geometric fault detection and isolation of two-dimensional (2D) systems. , 2013, , .		16
211	Wavelet-based Multiscale Filtering of Genomic Data. , 2012, , .		2
212	Fuzzy Intervention in Biological Phenomena. IEEE/ACM Transactions on Computational Biology and Bioinformatics, 2012, 9, 1819-1825.	3.0	11
213	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
214	Multiscale Denoising of Biological Data: A Comparative Analysis. IEEE/ACM Transactions on Computational Biology and Bioinformatics, 2012, 9, 1539-1545.	3.0	26
215	Output-feedback model predictive control of biological phenomena modeled by S-systems. , 2012, , .		1
216	Multiple sensor fault diagnosis for non-linear and dynamic system by evolving approach. , 2012, , .		2

#	ARTICLE	IF	CITATIONS
217	Fault Detection and Isolation of Linear Impulsive Systems. IEEE Transactions on Automatic Control, 2011, 56, 1905-1910.	5.7	18
218	Nonlinear Fault Diagnosis of Jet Engines by Using a Multiple Model-Based Approach. , 2011, , .		7
219	Intervention in Biological Phenomena Modeled by S-Systems. IEEE Transactions on Biomedical Engineering, 2011, 58, 1260-1267.	4.2	13
220	Parameter estimation of biological phenomena modeled by S-systems: An Extended Kalman filter approach. , 2011, , .		8
221	Intervention in biological phenomena modeled by S-systems: A model predictive control approach. , 2011, , .		1
222	Fault Detection and Isolation. , 2011, , .		48
223	Fault Diagnosis of Jet Engines by Using a Multiple Model-Based Approach. , 2010, , .		14
224	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
225	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
226	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
227	Fault detection and isolation of linear impulsive systems. , 2009, , .		3
228	Robust fault detection and isolation of time-delay systems using a geometric approach. Automatica, 2009, 45, 1567-1573.	5.0	67
229	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
230	Fault Detection and Isolation Strategy for a Network of Unmanned Vehicles in Presence of Large Environmental Disturbances. , 2009, , .		2
231	Fault Diagnosis in a Network of Unmanned Aerial Vehicles with Imperfect Communication Channels. , 2009, , .		1
232	Actuator Fault Detection and Isolation for a Network of Unmanned Vehicles. IEEE Transactions on Automatic Control, 2009, 54, 835-840.	5.7	171
233	Fault Detection and Isolation of Distributed Time-Delay Systems. IEEE Transactions on Automatic Control, 2009, 54, 2680-2685.	5.7	34
234	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

#	ARTICLE	IF	CITATIONS
235	Robust Fault Detection and Isolation of Linear Systems with Distributed Delays. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2009, 42, 768-773.	0.4	0
236	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
237	Fault Consensus in a Network of Unmanned Vehicles. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2009, 42, 1001-1006.	0.4	4
238	A geometric approach to Fault Detection and Isolation of neutral time-delay systems. , 2008, , .		6
239	A geometric approach to robust Fault Detection and Isolation of discrete-time Markovian jump systems. , 2008, , .		10
240	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
241	Fault Detection and Isolation in a redundant reaction wheels configuration of a satellite. , 2007, , .		17
242	Fault tolerant cooperative control for UAV rendezvous problem subject to actuator faults. , 2007, , .		3
243	Fault Detection and Isolation of Actuator Faults in Overactuated Systems. Proceedings of the American Control Conference, 2007, , .	0.0	22
244	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
245	Nonlinear Geometric Approach to Fault Detection and Isolation in an Aircraft Nonlinear Longitudinal Model. Proceedings of the American Control Conference, 2007, , .	0.0	7
246	Fault Detection and Isolation of Actuator Faults in Spacecraft Formation Flight. , 2006, , .		22
247	Multi-layer switching control. , 0, , .		6