Nader Meskin

List of Publications by Year in Descending Order

218 papers	2,806 citations	26 h-index	43 g-index
257 ext. papers	3,743 ext. citations	3.7 avg, IF	6.14 L-index

#	Paper	IF	Citations
218	Model-Free Geometric Fault Detection and Isolation for Nonlinear Systems Using Koopman Operator. *IEEE Access*, **2022**, 10, 14835-14845	3.5	0
217	Reinforcement Learning-based Control of Signalized Intersections having Platoons. *IEEE Access*, **2022**, 1-1	3.5	0
216	Fault-Tolerant Control of One-Sided Lipschitz Nonlinear Systems **2022**, 6, 1460-1465		0
215	Modified Particle Filters for Detection of False Data Injection Attacks and State Estimation in Networked Nonlinear Systems. *IEEE Access*, **2022**, 10, 32728-32741	3.5	
214	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	16.2	3
213	Neural network-based model predictive control system for optimizing building automation and management systems of sports facilities. *Applied Energy*, **2022**, 318, 119153	10.7	1
212	Control Strategies for Cancer Therapy. *Series in Bioengineering*, **2021**, 215-247	0.7	
211	Time Series Data to Mathematical Model. *Series in Bioengineering*, **2021**, 15-54	0.7	
210	Immunotherapy Models. *Series in Bioengineering*, **2021**, 77-110	0.7	
209	Combination Therapy Models. *Series in Bioengineering*, **2021**, 193-214	0.7	
208	**2021**,		2
207	LPV modeling of nonlinear systems: A multi-path feedback linearization approach. *International Journal of Robust and Nonlinear Control*, **2021**, 31, 9436	3.6	1
206	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	2.5	1
205	Fault-tolerant control of nonlinear heterogeneous multi-agent systems. *Automatica*, **2021**, 127, 109514	5.7	2
204	A Modular Approach for a Patient Unit for Extracorporeal Membrane Oxygenation Simulator. *Membranes*, **2021**, 11,	3.8	3
203	Application of data-driven attack detection framework for secure operation in smart buildings. *Sustainable Cities and Society*, **2021**, 69, 102816	10.1	10
202	Event-triggered robust fault diagnosis and control of linear Roesser systems: A unified framework. *Automatica*, **2021**, 128, 109575	5.7	8

201	Reinforcement learning-based decision support system for COVID-19. *Biomedical Signal Processing and Control*, **2021**, 68, 102676	4.9	8
200	Observer-Based Leader-Following Consensus for Linear Multiagent Systems With a Leader of Unknown Input. *IEEE Systems Journal*, **2021**, 15, 95-104	4.3	3
199	Output Feedback Fault-Tolerant Control of Heterogeneous Multi-Agent Systems. *Asian Journal of Control*, **2021**, 23, 949-961	1.7	3
198	Finite-Time Stability Under Denial of Service. *IEEE Systems Journal*, **2021**, 15, 1048-1055	4.3	5
197	Protocol-Based Particle Filtering and Divergence Estimation. *IEEE Systems Journal*, **2021**, 15, 4537-4544	4.3	1
196	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	2.8	1
195	Mathematical Models of Cancer and Different Therapies. *Series in Bioengineering*, **2021**,	0.7	3
194	Sensor Fault Detection and Isolation via Networked Estimation: Full-Rank Dynamical Systems. *IEEE Transactions on Control of Network Systems*, **2021**, 8, 987-996	4	11
193	Event-triggered particle filtering and Cramér-Rao lower bound computation. *Proceedings of the Institution of Mechanical Engineers Part I: Journal of Systems and Control Engineering*, **2021**, 235, 503-516		1
192	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	4.3	1
191	Novel Actuator Fault Diagnosis Framework for Multizone HVAC Systems Using 2-D Convolutional Neural Networks. *IEEE Transactions on Automation Science and Engineering*, **2021**, 1-12	4.9	2
190	Rotor Flux-Oriented Control of Three-Phase Induction Motor Using Sliding Mode Controller and Rotor Flux Estimator. *Lecture Notes in Electrical Engineering*, **2021**, 143-154	0.2	
189	Distributed Event-Triggered Consensus-Based Control of DC Microgrids in Presence of DoS Cyber Attacks. *IEEE Access*, **2021**, 9, 54009-54021	3.5	4
188	. *IEEE Access*, **2021**, 9, 88327-88347	3.5	2
187	HVAC system attack detection dataset. *Data in Brief*, **2021**, 37, 107166	1.2	1
186	A review of mathematical model-based scenario analysis and interventions for COVID-19. *Computer Methods and Programs in Biomedicine*, **2021**, 209, 106301	6.9	10
185	Adaptive cooperative control of nonlinear multi-agent systems with uncertain time-varying control directions and dead-zone nonlinearity. *Neurocomputing*, **2021**, 464, 151-163	5.4	1
184	A Novel Proportional Navigation Based Method for Robotic Interception Planning With Final Velocity Control. *IEEE Access*, **2021**, 9, 106428-106440	3.5	1

183	A Cyber-Security Methodology for a Cyber-Physical Industrial Control System Testbed. *IEEE Access*, **2021**, 9, 16239-16253	3.5	9
182	Mitigation and Resiliency of Multi-Agent Systems Subject to Malicious Cyber Attacks on Communication Links **2020**,		1
181	Actuator Fault Diagnosis in Multi-Zone HVAC Systems using 2D Convolutional Neural Networks **2020**,		1
180	Reinforcement learning-based control of drug dosing with applications to anesthesia and cancer therapy **2020**, 251-297		0
179	Crosstalk between HER2 and PD-1/PD-L1 in Breast Cancer: From Clinical Applications to Mathematical Models. *Cancers*, **2020**, 12,	6.6	19
178	A Dual-Isolation-Forests-Based Attack Detection Framework for Industrial Control Systems. *IEEE Access*, **2020**, 8, 36639-36651	3.5	22
177	Robust Anomaly Detection Based on a Dynamical Observer for Continuous Linear Roesser Systems. *IFAC-PapersOnLine*, **2020**, 53, 664-669	0.7	
176	Fault Tolerant Controller Schemes for Single and Multiple Mobile Robots. *Advances in Intelligent Systems and Computing*, **2020**, 3-56	0.4	1
175	Distributed Event-Triggered Consensus-Based Control for Current Sharing and Voltage Stabilization of DC Microgrids. *IFAC-PapersOnLine*, **2020**, 53, 12912-12917	0.7	1
174	Fault-Tolerant Fully Distributed Leader-Following Consensus for Linear Multi-agent Systems with Non-cooperative Leader. *IFAC-PapersOnLine*, **2020**, 53, 4076-4081	0.7	
173	Cybersecurity for industrial control systems: A survey. *Computers and Security*, **2020**, 89, 101677	4.9	48
172	Simultaneous actuator fault estimation and fault-tolerant tracking control for multi-agent systems: a sliding-mode observer-based approach. *International Journal of Control*, **2020**, 1-14	1.5	1
171	A Comprehensive Review of the Cyber-Attacks and Cyber-Security on Load Frequency Control of Power Systems. *Energies*, **2020**, 13, 3860	3.1	22
170	Distributed Fast Fault Detection in DC Microgrids. *IEEE Systems Journal*, **2020**, 1-12	4.3	6
169	Sensor data validation and fault diagnosis using Auto-Associative Neural Network for HVAC systems. *Journal of Building Engineering*, **2020**, 27, 100935	5.2	26
168	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	2.8	8
167	Reinforcement learning-based control of tumor growth under anti-angiogenic therapy. *Computer Methods and Programs in Biomedicine*, **2019**, 173, 15-26	6.9	11
166	Optimal adaptive control of drug dosing using integral reinforcement learning. *Mathematical Biosciences*, **2019**, 309, 131-142	3.9	16

165	Automatic blood glucose control for type 1 diabetes: A trade-off between postprandial hyperglycemia and hypoglycemia. *Biomedical Signal Processing and Control*, **2019**, 54, 101603	4.9	6
164	Fast Fault Detection of Synchronous Generators **2019**,		2
163	Determination of Security Index for Linear Cyber-Physical Systems Subject to Malicious Cyber Attacks* **2019**,		3
162	Finite Frequency Fault Diagnosis for Heterogeneous Multi-agent LPV Systems **2019**,		1
161	Actuator Fault Estimation for Multi-agent Systems: A Sliding-mode Observer-based Approach **2019**,		1
160	Distributed simultaneous fault detection and leader-following consensus control for multi-agent systems. *ISA Transactions*, **2019**, 87, 129-142	5.5	13
159	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	4.8	8
158	A nonovershooting tracking controller for simultaneous infusion of anesthetics and analgesics. *Biomedical Signal Processing and Control*, **2019**, 49, 375-387	4.9	8
157	Dynamic performance simulation and control of gas turbines used for hybrid gas/wind energy applications. *Applied Thermal Engineering*, **2019**, 147, 122-142	5.8	17
156	Fault-tolerant control of linear systems using adaptive virtual actuator. *International Journal of Control*, **2019**, 92, 1729-1741	1.5	12
155	Event-triggered simultaneous fault detection and tracking control for multi-agent systems. *International Journal of Control*, **2019**, 92, 1928-1944	1.5	12
154	Sensor fault detection and isolation of an industrial gas turbine using partial adaptive KPCA. *Journal of Process Control*, **2018**, 64, 37-48	3.9	46
153	State-space LPV model identification using kernelized machine learning. *Automatica*, **2018**, 88, 38-47	5.7	21
152	Event-Triggered Fault Detection for Networked Control Systems Subject to Packet Dropout. *Asian Journal of Control*, **2018**, 20, 2195-2206	1.7	18
151	An improved particle filtering-based approach for health prediction and prognosis of nonlinear systems. *Journal of the Franklin Institute*, **2018**, 355, 3753-3794	4	5
150	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	1.5	8
149	A Dual Particle Filter-Based Fault Diagnosis Scheme for Nonlinear Systems. *IEEE Transactions on Control Systems Technology*, **2018**, 26, 1317-1334	4.8	12
148	An improved robust model predictive control for linear parameter-varying input-output models. *International Journal of Robust and Nonlinear Control*, **2018**, 28, 859-880	3.6	21

147	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	11.9	17
146	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	5
145	Integrated Fault Diagnosis and Control Design of Linear Complex Systems **2018**,		2
144	Performance assessment of classical and fractional controllers for transient operation of gas turbine engines. *IFAC-PapersOnLine*, **2018**, 51, 687-692	0.7	4
143	A Nonovershooting Controller with Integral Action for Multi-input Multi-output Drug Dosing Control. *IFAC-PapersOnLine*, **2018**, 51, 60-65	0.7	1
142	A New Approach to Robust MPC Design for LPV Systems in Input-Output Form. *IFAC-PapersOnLine*, **2018**, 51, 112-117	0.7	6
141	Actuator Fault Tolerant Control in a Team of Mobile Robots **2018**,		2
140	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	2.8	5
139	SCADA System Testbed for Cybersecurity Research Using Machine Learning Approach. *Future Internet*, **2018**, 10, 76	3.3	41
138	. *IEEE Transactions on Industrial Informatics*, **2017**, 13, 298-311	11.9	52
137	Adaptive sliding mode̶based diagnosis of actuator faults for LPV systems. *International Journal of Adaptive Control and Signal Processing*, **2017**, 31, 1265-1272	2.8	7
136	Event-Triggered Suboptimal Tracking Controller Design for a Class of Nonlinear Discrete-Time Systems. *IEEE Transactions on Industrial Electronics*, **2017**, 64, 8079-8087	8.9	24
135	Fault-tolerant control of non-linear systems based on adaptive virtual actuator. *IET Control Theory and Applications*, **2017**, 11, 1371-1379	2.5	20
134	Distributed reconfigurable control strategies for switching topology networked multi-agent systems. *ISA Transactions*, **2017**, 71, 51-67	5.5	15
133	Derivative-driven window-based regression method for gas turbine performance prognostics. *Energy*, **2017**, 128, 302-311	7.9	25
132	A Bayesian Approach for LPV Model Identification and Its Application to Complex Processes. *IEEE Transactions on Control Systems Technology*, **2017**, 25, 2160-2167	4.8	13
131	Fault detection and isolation of two-dimensional (2D) systems. *Systems and Control Letters*, **2017**, 99, 25-32	2.4	10
130	Robust consensus of autonomous underactuated surface vessels. *IET Control Theory and Applications*, **2017**, 11, 486-494	2.5	11

129	Reinforcement learning-based control of drug dosing for cancer chemotherapy treatment. *Mathematical Biosciences*, **2017**, 293, 11-20	3.9	37
128	An H∞ cooperative fault recovery control of multi-agent systems. *Automatica*, **2017**, 84, 101-108	5.7	26
127	Reconfigurable control of linear systems based on state feedback adaptive virtual actuator **2017**,		3
126	Stochastic model predictive control for LPV systems **2017**,		1
125	Stochastic model predictive tracking of piecewise constant references for LPV systems. *IET Control Theory and Applications*, **2017**, 11, 1862-1872	2.5	2
124	Fault-tolerant control of multi-agent systems based on adaptive fault hiding framework **2017**,		9
123	Distributed fault detection and isolation filter design for heterogeneous multi-agent LPV systems **2017**,		13
122	Nonlinear Suboptimal Tracking Controller Design Using State-Dependent Riccati Equation Technique. *IEEE Transactions on Control Systems Technology*, **2017**, 25, 1833-1839	4.8	33
121	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	2.5	68
120	A geometric approach to fault detection and isolation of multi-dimensional (n-D) systems. *Multidimensional Systems and Signal Processing*, **2017**, 28, 1653-1678	1.8	2
119	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	7.7	23
118	A Negative Selection Immune System Inspired Methodology for Fault Diagnosis of Wind Turbines. *IEEE Transactions on Cybernetics*, **2017**, 47, 3799-3813	10.2	21
117	Event-triggered based consensus of autonomous underactuated surface vessels **2017**,		1
116	Multi-zone HVAC control system design using feedback linearization **2017**,		4
115	LEARNING-BASED CONTROL OF CANCER CHEMOTHERAPY TREATMENT. *IFAC-PapersOnLine*, **2017**, 50, 15127-15132	0.7	5
114	Reinforcement learning-based control for combined infusion of sedatives and analgesics **2017**,		3
113	Actuator fault detection and isolation of differential drive mobile robots using multiple model algorithm **2017**,		2
112	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	2.5	8

111	Event-triggered fault detection for networked control systems subject to packet dropout **2017**,		1
110	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	2.8	5
109	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	3.6	1
108	Control reconfiguration for multiple autonomous vehicles subject to actuator faults and disturbances **2016**,		1
107	An Overview of Cooperative and Consensus Control of Multiagent Systems **2016**, 1-35		4
106	On design of suboptimal tracking controller for a class of nonlinear systems **2016**,		9
105	Event-triggered fault detection for discrete-time linear multi-agent systems **2016**,		3
104	Event-triggered control for discrete-time linear parameter-varying systems **2016**,		6
103	Robust distributed consensus of autonomous underwater vehicles in 3D space **2016**,		6
102	Event-triggered fault detection for discrete-time LPV systems **2016**,		2
101	Event-triggered fault estimation and accommodation design for linear systems **2016**,		3
100	Event-triggered simultaneous fault detection and consensus control for linear multi-agent systems **2016**,		1
99	Stochastic event-triggered particle filtering for state estimation **2016**,		7
98	Forecasting the health of gas turbine components through an integrated performance-based approach **2016**,		1
97	Simultaneous fault detection and consensus control design for a network of multi-agent systems. *Automatica*, **2016**, 66, 185-194	5.7	125
96	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	4.8	32
95	. *IEEE Transactions on Control Systems Technology*, **2016**, 24, 1883-1891	4.8	16
94	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	7.8	23

93	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	4.8	117
92	A dynamic prognosis scheme for flexible operation of gas turbines. *Applied Energy*, **2016**, 164, 686-701	10.7	52
91	LPV model development and control of a solution copolymerization reactor. *Control Engineering Practice*, **2016**, 48, 98-110	3.9	3
90	A Neural Field Theory for Loss of Consciousness **2016**, 93-162		1
89	**2016**,		1
88	An adaptive sliding mode observer for linear systems under malicious attack **2016**,		3
87	A Robust MPC for Input-Output LPV Models. *IEEE Transactions on Automatic Control*, **2016**, 61, 4183-4188	5.9	18
86	Event-triggered fault detection and isolation for discrete-time linear systems. *IET Control Theory and Applications*, **2016**, 10, 526-533	2.5	55
85	Global stabilization of autonomous underactuated underwater vehicles in 3D space **2016**,		2
84	Suboptimal control reconfiguration in switched multi-agent networked systems **2016**,		1
83	Adaptive sliding mode observer for sensor fault diagnosis of an industrial gas turbine. *Control Engineering Practice*, **2015**, 38, 57-74	3.9	61
82	Transient Gas Turbine Performance Diagnostics Through Nonlinear Adaptation of Compressor and Turbine Maps. *Journal of Engineering for Gas Turbines and Power*, **2015**, 137,	1.7	50
81	Closed-loop control of anesthesia and mean arterial pressure using reinforcement learning. *Biomedical Signal Processing and Control*, **2015**, 22, 54-64	4.9	40
80	Sensor fault detection and isolation of an autonomous underwater vehicle using partial kernel PCA **2015**,		3
79	Sensor Fault Detection and Isolation of an Industrial Gas Turbine Using Partial Kernel PCA. *IFAC-PapersOnLine*, **2015**, 48, 1389-1396	0.7	10
78	Linear Parameter-Varying Control of a Copolymerization Reactor. *IFAC-PapersOnLine*, **2015**, 48, 200-206	0.7	
77	A Kernel-based Approach to MIMO LPV State-space Identification and Application to a Nonlinear Process System. *IFAC-PapersOnLine*, **2015**, 48, 85-90	0.7	5
76	A hybrid prognosis and health monitoring strategy by integrating particle filters and neural networks for gas turbine engines **2015**,		8

75	Event-triggered fault detection for discrete-time linear systems **2015**,		6
74	Health Monitoring and Degradation Prognostics in Gas Turbine Engines Using Dynamic Neural Networks **2015**,		4
73	A Bayesian approach for model identification of LPV systems with uncertain scheduling variables **2015**,		2
72	Optimal Control of Midazolam Infusion for Post Operative Patients in Intensive Care Units. *Asian Journal of Control*, **2015**, 17, 675-686	1.7	1
71	An IV-SVM-based approach for identification of state-space LPV models under generic noise conditions **2015**,		6
70	Event-triggered fault detection, isolation and control design of linear systems **2015**,		9
69	An MPC approach for LPV systems in input-output form **2015**,		8
68	Reduced LPV model development and control of a solution copolymerization reactor **2015**,		1
67	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	1
66	A novel affine qLPV model derivation method for fault diagnosis H performance improvement **2015**,		1
65	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
64	Multiple sensor fault diagnosis by evolving data-driven approach. *Information Sciences*, **2014**, 259, 346-358	7.7	23
63	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,	1.7	38
62	Direct adaptive disturbance rejection control for sedation and analgesia **2014**,		2
61	A general multicompartment lung mechanics model with nonlinear resistance and compliance respiratory parameters **2014**,		9
60	A component map tuning method for performance prediction and diagnostics of gas turbine compressors. *Applied Energy*, **2014**, 135, 572-585	10.7	73
59	Output feedback sliding mode control for a linear multi-compartment lung mechanics system. *International Journal of Control*, **2014**, 1-12	1.5	3
58	Simultaneous fault detection and control design for a network of multi-agent systems **2014**,		10

57	Simultaneous fault detection, isolation and control tracking design using a single observer-based module **2014**,		6
56	Robust cooperative control reconfiguration/recovery in multi-agent systems **2014**,		7
55	Cost performance based control reconfiguration in multi-agent systems **2014**,		8
54	Fault detection and isolation of Riesz spectral systems: A geometric approach **2014**,		2
53	Integrated fault detection, isolation and control design for continuous-time Markovian jump systems with uncertain transition probabilities **2014**,		4
52	Sensor fault detection and isolation using multiple robust filters for linear systems with time-varying parameter uncertainty and error variance constraints **2014**,		4
51	A support vector machine-based method for LPV-ARX identification with noisy scheduling parameters **2014**,		5
50	Closed-loop control of anesthesia and mean arterial pressure using reinforcement learning **2014**,		2
49	Robust Hybrid EKF approach for state estimation in multi-scale nonlinear singularly perturbed systems **2014**,		1
48	An Efficient Component Map Generation Method for Prediction of Gas Turbine Performance **2014**,		7
47	**2014**,		13
46	Fault detection and isolation of Fornasini-Marchesini 2D systems: A geometric approach **2014**,		1
45	Parameter Set-mapping using kernel-based PCA for linear parameter-varying systems **2014**,		6
44	A novel particle filter parameter prediction scheme for failure prognosis **2014**,		6
43	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	7.7	86
42	Output-feedback sliding mode control for a linear multicompartment lung mechanics system **2013**,		1
41	Multiple-model based sensor fault diagnosis using hybrid kalman filter approach for nonlinear gas turbine engines **2013**,		16
40	Fault detection and isolation of the wind turbine based on the real-valued negative selection algorithm **2013**,		3

39	Simultaneous fault detection and control design for an autonomous unmanned underwater vehicle **2013**,		6
38	Parameter estimation of biological phenomena: an unscented Kalman filter approach. *IEEE/ACM Transactions on Computational Biology and Bioinformatics*, **2013**, 10, 537-43	3	15
37	A Multiple Model-Based Approach for Fault Diagnosis of Jet Engines. *IEEE Transactions on Control Systems Technology*, **2013**, 21, 254-262	4.8	66
36	Particle filtering for state and parameter estimation in gas turbine engine fault diagnostics **2013**,		6
35	Dynamic Performance Simulation of an Aeroderivative Gas Turbine Using the Matlab Simulink Environment **2013**,		15
34	Geometric fault detection and isolation of two-dimensional (2D) systems **2013**,		12
33	Multiscale denoising of biological data: a comparative analysis. *IEEE/ACM Transactions on Computational Biology and Bioinformatics*, **2012**, 9, 1539-44	3	18
32	Output-feedback model predictive control of biological phenomena modeled by S-systems **2012**,		1
31	Wavelet-based Multiscale Filtering of Genomic Data **2012**,		2
30	Fuzzy intervention in biological phenomena. *IEEE/ACM Transactions on Computational Biology and Bioinformatics*, **2012**, 9, 1819-25	3	9
29	Nonlinear Fault Diagnosis of Jet Engines by Using a Multiple Model-Based Approach. *Journal of Engineering for Gas Turbines and Power*, **2012**, 134,	1.7	41
28	Fault Detection and Isolation of Linear Impulsive Systems. *IEEE Transactions on Automatic Control*, **2011**, 56, 1905-1910	5.9	11
27	Nonlinear Fault Diagnosis of Jet Engines by Using a Multiple Model-Based Approach **2011**,		6
26	Intervention in biological phenomena modeled by S-systems. *IEEE Transactions on Biomedical Engineering*, **2011**, 58, 1260-7	5	13
25	Parameter estimation of biological phenomena modeled by S-systems: An Extended Kalman filter approach **2011**,		7
24	Fault Detection and Isolation **2011**,		31
23	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	2.5	7
22	A Geometric Approach to Fault Detection and Isolation of Continuous-Time Markovian Jump Linear Systems. *IEEE Transactions on Automatic Control*, **2010**, 55, 1343-1357	5.9	41

21	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**,	4.8	27
20	Fault Diagnosis of Jet Engines by Using a Multiple Model-Based Approach **2010**,		11
19	Fault detection and isolation of linear impulsive systems **2009**,		3
18	Robust fault detection and isolation of time-delay systems using a geometric approach. *Automatica* , **2009**, 45, 1567-1573	5.7	50
17	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	5.7	102
16	Fault Detection and Isolation Strategy for a Network of Unmanned Vehicles in Presence of Large Environmental Disturbances **2009**,		2
15	Fault Diagnosis in a Network of Unmanned Aerial Vehicles with Imperfect Communication Channels **2009**,		1
14	Actuator Fault Detection and Isolation for a Network of Unmanned Vehicles. *IEEE Transactions on Automatic Control*, **2009**, 54, 835-840	5.9	130
13	Fault Detection and Isolation of Distributed Time-Delay Systems. *IEEE Transactions on Automatic Control*, **2009**, 54, 2680-2685	5.9	22
12	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		2
11	Robust Fault Detection and Isolation of Linear Systems with Distributed Delays. *IFAC Postprint Volumes IPPV / International Federation of Automatic Control*, **2009**, 42, 768-773		
10	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		4
9	Fault Consensus in a Network of Unmanned Vehicles. *IFAC Postprint Volumes IPPV / International Federation of Automatic Control*, **2009**, 42, 1001-1006		2
8	A geometric approach to Fault Detection and Isolation of neutral time-delay systems **2008**,		4
7	A geometric approach to robust Fault Detection and Isolation of discrete-time Markovian jump systems **2008**,		8
6	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		3
5	Nonlinear Geometric Approach to Fault Detection and Isolation in an Aircraft Nonlinear Longitudinal Model. *Proceedings of the American Control Conference*, **2007**,	1.2	4
4	Fault Detection and Isolation in a redundant reaction wheels configuration of a satellite **2007**,		11

3   Fault tolerant cooperative control for UAV rendezvous problem subject to actuator faults **2007**,   2

2   Fault Detection and Isolation of Actuator Faults in Overactuated Systems. *Proceedings of the American Control Conference*, **2007**,   1.2   15

1   Fault Detection and Isolation of Actuator Faults in Spacecraft Formation Flight **2006**,   17