

Mehrdad Saif

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

241
papers

4,018
citations

32
h-index

53
g-index

283
ext. papers

5,031
ext. citations

4.2
avg, IF

6.44
L-index

#	Paper	IF	Citations
241	A New Fault Diagnosis Approach for Heavy-Duty Gas Turbines. <i>IEEE/ASME Transactions on Mechatronics</i> , 2022 , 1-11	5.5	3
240	Generative Adversarial Networks: A Survey on Training, Variants, and Applications. <i>Intelligent Systems Reference Library</i> , 2022 , 7-29	0.8	3
239	Embedding Time-Series Features into Generative Adversarial Networks for Intrusion Detection in Internet of Things Networks. <i>Intelligent Systems Reference Library</i> , 2022 , 169-183	0.8	2
238	An integrated framework for diagnosing process faults with incomplete features. <i>Knowledge and Information Systems</i> , 2022 , 64, 75	2.4	
237	Observer-Based Backstepping Sliding Mode Control Design for Microgrids Feeding a Constant Power Load. <i>IEEE Transactions on Industrial Electronics</i> , 2022 , 1-1	8.9	2
236	New Condition-based Monitoring and Fusion Approaches with a Bounded Uncertainty for Bearing Lifetime Prediction. <i>IEEE Sensors Journal</i> , 2022 , 1-1	4	2
235	Consensus-Based Decision Support Model and Fusion Architecture for Dynamic Decision Making. <i>Information Sciences</i> , 2022 , 597, 86-104	7.7	0
234	Cyber Attack Estimation of Nonlinear DC Microgrids with Noisy Measurements: Spherical Simplex Radial CKF Approach 2021 ,		2
233	COLI: Collaborative clustering missing data imputation. <i>Pattern Recognition Letters</i> , 2021 , 152, 420-427	4.7	2
232	A Critical Study on the Importance of Feature Selection for Diagnosing Cyber-Attacks in Water Critical Infrastructures 2021 , 153-169		
231	Constrained Generative Adversarial Learning for Dimensionality Reduction. <i>IEEE Transactions on Knowledge and Data Engineering</i> , 2021 , 1-1	4.2	3
230	To Tolerate or To Impute Missing Values in V2X Communications Data?. <i>IEEE Internet of Things Journal</i> , 2021 , 1-1	10.7	2
229	Generative-Adversarial Class-Imbalance Learning for Classifying Cyber-Attacks and Faults - A Cyber-Physical Power System. <i>IEEE Transactions on Dependable and Secure Computing</i> , 2021 , 1-1	3.9	5
228	A Study on the Effect of Dimensionality Reduction on Cyber-Attack Identification in Water Storage Tank SCADA Systems 2021 , 171-187		
227	Decentralized Resilient Output-Feedback Control Design for Networked Control Systems Under Denial-of-Service. <i>IEEE Systems Journal</i> , 2021 , 1-10	4.3	1
226	. <i>IEEE Systems, Man, and Cybernetics Magazine</i> , 2021 , 7, 35-60	1.6	8
225	Unsupervised concrete feature selection based on mutual information for diagnosing faults and cyber-attacks in power systems. <i>Engineering Applications of Artificial Intelligence</i> , 2021 , 100, 104150	7.2	12

224	Generative adversarial dimensionality reduction for diagnosing faults and attacks in cyber-physical systems. <i>Neurocomputing</i> , 2021 , 440, 101-110	5.4	21
223	Generative Adversarial Network-Based Scheme for Diagnosing Faults in Cyber-Physical Power Systems. <i>Sensors</i> , 2021 , 21,	3.8	5
222	Adversarial Semi-Supervised Learning for Diagnosing Faults and Attacks in Power Grids. <i>IEEE Transactions on Smart Grid</i> , 2021 , 12, 3468-3478	10.7	24
221	A Modular Adaptive Robust Nonlinear Control for Resilient Integration of VSIs Into Emerging Modernized Microgrids. <i>IEEE Journal of Emerging and Selected Topics in Power Electronics</i> , 2021 , 9, 2907-2925	5.6	8
220	Improved Remaining Useful Life Estimation of Wind Turbine Drivetrain Bearings Under Varying Operating Conditions. <i>IEEE Transactions on Industrial Informatics</i> , 2021 , 17, 1742-1752	11.9	17
219	Volcano eruption algorithm for solving optimization problems. <i>Neural Computing and Applications</i> , 2021 , 33, 2321-2337	4.8	4
218	Regression Models With Graph-Regularization Learning Algorithms for Accurate Fault Location in Smart Grids. <i>IEEE Systems Journal</i> , 2021 , 15, 2012-2023	4.3	4
217	Improved Distributed Prescribed Finite-Time Secondary Control of Inverter-Based Microgrids: Design and Real-Time Implementation. <i>IEEE Transactions on Industrial Electronics</i> , 2021 , 68, 11135-11145	8.9	10
216	. <i>IEEE Journal of Emerging and Selected Topics in Power Electronics</i> , 2021 , 9, 1222-1232	5.6	6
215	Multi-Feature Fusion Approach for Epileptic Seizure Detection From EEG Signals. <i>IEEE Sensors Journal</i> , 2021 , 21, 3533-3543	4	21
214	. <i>IEEE Transactions on Reliability</i> , 2021 , 70, 728-748	4.6	107
213	A Novel On-Board DC/DC Converter Controller Feeding Uncertain Constant Power Loads. <i>IEEE Journal of Emerging and Selected Topics in Power Electronics</i> , 2021 , 9, 1233-1240	5.6	11
212	Recent Survey of Large-Scale Systems: Architectures, Controller Strategies, and Industrial Applications. <i>IEEE Systems Journal</i> , 2021 , 1-14	4.3	16
211	Intelligent Decision Support and Fusion Models for Fault Detection and Location in Power Grids. <i>IEEE Transactions on Emerging Topics in Computational Intelligence</i> , 2021 , 1-14	4.1	1
210	Robust and Reliable Output Feedback Control for Uncertain Networked Control Systems Against Actuator Faults. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , 2021 , 1-10	7.3	3
209	Adversarial Learning on Incomplete and Imbalanced Medical Data for Robust Survival Prediction of Liver Transplant Patients. <i>IEEE Access</i> , 2021 , 9, 73641-73650	3.5	4
208	DLIN: Deep Ladder Imputation Network. <i>IEEE Transactions on Cybernetics</i> , 2021 , PP,	10.2	9
207	. <i>IEEE Transactions on Power Electronics</i> , 2021 , 36, 8370-8387	7.2	3

206	Event-Triggered Adaptive Optimal Fast Terminal Sliding Mode Control Under Denial-of-Service Attacks. <i>IEEE Systems Journal</i> , 2021 , 1-9	4.3	6
205	Fault Location in Smart Grids Through Multicriteria Analysis of Group Decision Support Systems. <i>IEEE Transactions on Industrial Informatics</i> , 2020 , 16, 7318-7327	11.9	7
204	An Integrated Feature-Based Failure Prognosis Method for Wind Turbine Bearings. <i>IEEE/ASME Transactions on Mechatronics</i> , 2020 , 25, 1468-1478	5.5	32
203	A New Fusion Estimation Method for Multi-Rate Multi-Sensor Systems With Missing Measurements. <i>IEEE Access</i> , 2020 , 8, 47522-47532	3.5	27
202	. <i>IEEE Systems Journal</i> , 2020 , 14, 5407-5416	4.3	26
201	A dual approach for positive TB fuzzy controller design and its application to cancer treatment under immunotherapy and chemotherapy. <i>Biomedical Signal Processing and Control</i> , 2020 , 58, 101822	4.9	8
200	. <i>IEEE Transactions on Power Electronics</i> , 2020 , 35, 9933-9942	7.2	4
199	An Improved Droop-Based Control Strategy for MT-HVDC Systems. <i>Electronics (Switzerland)</i> , 2020 , 9, 87	2.6	13
198	An Improved Mixed AC/DC Power Flow Algorithm in Hybrid AC/DC Grids with MT-HVDC Systems. <i>Applied Sciences (Switzerland)</i> , 2020 , 10, 297	2.6	11
197	SMSA Security Management System for Steam Turbines Using a Multisensor Array. <i>IEEE Systems Journal</i> , 2020 , 14, 3813-3824	4.3	7
196	A New Hybrid Fault Detection Method for Wind Turbine Blades Using Recursive PCA and Wavelet-Based PDF. <i>IEEE Sensors Journal</i> , 2020 , 20, 2023-2033	4	44
195	Ensemble-Based Fault Detection and Isolation of an Industrial Gas Turbine 2020 ,		10
194	Adaptive control realization for canonic Caputo fractional-order systems with actuator nonlinearity: application to mechatronic devices. <i>Advances in Difference Equations</i> , 2020 , 2020,	3.6	3
193	Cooperative Clustering Missing Data Imputation 2020 ,		1
192	Unknown Input Observers Design For Real-Time Mitigation of the False Data Injection Attacks 2020 ,		2
191	A Design Procedure for Robust Actuator and Sensor Fault Detection 2020 ,		1
190	. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2020 , 69, 9306-9328	5.2	40
189	Detection of Malicious SCADA Communications via Multi-Subspace Feature Selection 2020 ,		7

188	FMG- and RNN-Based Estimation of Motor Intention of Upper-Limb Motion in Human-Robot Collaboration. <i>Frontiers in Robotics and AI</i> , 2020 , 7, 573096	2.8	3
187	. <i>IEEE Transactions on Industrial Informatics</i> , 2020 , 16, 171-182	11.9	5
186	. <i>IEEE Transactions on Smart Grid</i> , 2020 , 11, 1453-1464	10.7	31
185	Similarity-learning information-fusion schemes for missing data imputation. <i>Knowledge-Based Systems</i> , 2020 , 187, 104805	7.3	24
184	Safe Human Robot Cooperation in Task Performed on the Shared Load 2019 ,		4
183	Failure Diagnosis of Wind Turbine Bearing Using Feature Extraction and a Neuro-Fuzzy Inference System (ANFIS). <i>Lecture Notes in Computer Science</i> , 2019 , 545-556	0.9	12
182	Robust finite-time stochastic stabilization and fault-tolerant control for uncertain networked control systems considering random delays and probabilistic actuator faults. <i>Transactions of the Institute of Measurement and Control</i> , 2019 , 41, 3550-3561	1.8	9
181	A Modular Fault Diagnosis and Prognosis Method for Hydro-Control Valve System Based on Redundancy in Multisensor Data Information. <i>IEEE Transactions on Reliability</i> , 2019 , 68, 330-341	4.6	19
180	An integrated imputation-prediction scheme for prognostics of battery data with missing observations. <i>Expert Systems With Applications</i> , 2019 , 115, 709-723	7.8	31
179	. <i>IEEE Transactions on Industrial Informatics</i> , 2019 , 15, 1277-1286	11.9	52
178	Evaluating Architecture Impacts on Deep Imitation Learning Performance for Autonomous Driving 2019 ,		3
177	Experimental Comparison Study on Joint and Cartesian Space Control Schemes for a Teleoperation System Under Time-Varying Delay 2019 ,		6
176	Fault detection and isolation in batteries power electronics and chargers. <i>Journal of Energy Storage</i> , 2019 , 25, 100807	7.8	8
175	A Bidirectional Power Charging Control Strategy for Plug-in Hybrid Electric Vehicles. <i>Sustainability</i> , 2019 , 11, 4317	3.6	49
174	A New Topology of a Fast Proactive Hybrid DC Circuit Breaker for MT-HVDC Grids. <i>Sustainability</i> , 2019 , 11, 4493	3.6	14
173	Imputation-Based Ensemble Techniques for Class Imbalance Learning. <i>IEEE Transactions on Knowledge and Data Engineering</i> , 2019 , 1-1	4.2	10
172	Modeling, Simulation, and Analysis of Hybrid Electric Vehicle Using MATLAB/Simulink 2019 ,		3
171	Hierarchical feature representation for unconstrained video analysis. <i>Neurocomputing</i> , 2019 , 363, 182-194	3.4	1

170	A Real-Time Cloud-Based Intelligent Car Parking System for Smart Cities 2019 ,		5
169	Design of a Cost-Effective Deep Convolutional Neural NetworkBased Scheme for Diagnosing Faults in Smart Grids 2019 ,		3
168	Fault Tolerant Control of Rhine-Meuse Delta Water System: A Performance Assessment Based Approach 2019 ,		2
167	A Fast Fault Detection and Identification Approach in Power Distribution Systems 2019 ,		13
166	A Control Oriented Cyber-Secure Strategy Based on Multiple Sensor Fusion 2019 ,		12
165	Collision Detection for Human-Robot Interaction in an Industrial Setting using Force Myography and a Deep Learning Approach 2019 ,		4
164	Locating Faults in Smart Grids Using NeuroBuzzy Networks 2019 ,		3
163	. <i>IEEE Systems Journal</i> , 2019 , 13, 2954-2965	4.3	15
162	. <i>IEEE Transactions on Industrial Electronics</i> , 2019 , 66, 6331-6342	8.9	82
161	. <i>IEEE Transactions on Industrial Electronics</i> , 2019 , 66, 561-570	8.9	36
160	A New Fault Diagnosis of Multifunctional Spoiler System Using Integrated Artificial Neural Network and Discrete Wavelet Transform Methods. <i>IEEE Sensors Journal</i> , 2018 , 18, 4990-5001	4	50
159	A New Fault Prognosis of MFS System Using Integrated Extended Kalman Filter and Bayesian Method. <i>IEEE Transactions on Industrial Informatics</i> , 2018 , 1-1	11.9	25
158	Improved Estimation for Well-Logging Problems Based on Fusion of Four Types of Kalman Filters. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2018 , 56, 647-654	8.1	16
157	A PVT resilient short-time measurement solution for on-chip testing. <i>Microelectronics Journal</i> , 2018 , 75, 35-40	1.8	3
156	. <i>IEEE Systems Journal</i> , 2018 , 12, 1286-1294	4.3	20
155	Power production prediction of wind turbines using a fusion of MLP and ANFIS networks. <i>IET Renewable Power Generation</i> , 2018 , 12, 1025-1033	2.9	25
154	Hand gesture recognition using force myography of the forearm activities and optimized features 2018 ,		10
153	An Adaptive Passive Fault Tolerant Control System for a Steam Turbine Using a PCA Based Inverse Neural Network Control Strategy 2018 ,		9

152	Torsional Vibration Identification Using Electrical Signatures Analysis in Induction Machine-Based Systems 2018 ,		2
151	A Distributed Fault Detection And Isolation Method For Multifunctional Spoiler System 2018 ,		6
150	A Critical Study on the Importance of Feature Extraction and Selection for Diagnosing Bearing Defects 2018 ,		4
149	Analyzing the Vibration Signals for Bearing Defects Diagnosis Using the Combination of SGWT Feature Extraction and SVM. <i>IFAC-PapersOnLine</i> , 2018 , 51, 221-227	0.7	9
148	Robust Finite-Time Fault-Tolerant Control of Uncertain Networked Control Systems via Markovian Jump Linear Systems Approach. <i>IFAC-PapersOnLine</i> , 2018 , 51, 564-569	0.7	1
147	Novel Sensor Selection Method for Tracking Objects and Providing Safe Workplace. <i>IFAC-PapersOnLine</i> , 2018 , 51, 1162-1167	0.7	1
146	Controlling Robot Gripper Force By Transferring Human Forearm Stiffness Using Force Myography 2018 ,		2
145	Extreme Learning Machine Based Prognostics of Battery Life. <i>International Journal on Artificial Intelligence Tools</i> , 2018 , 27, 1850036	0.9	12
144	Maximum Power Point Tracker (MPPT) for Photovoltaic Power Systems-A Systematic Literature Review 2018 ,		5
143	Estimation and Fault Diagnosis of Lithium-Ion Batteries: A Fractional-Order System Approach. <i>Mathematical Problems in Engineering</i> , 2018 , 2018, 1-12	1.1	2
142	State-Space Modeling and Observer Design of Li-Ion Batteries Using Takagi-Sugeno Fuzzy System. <i>IEEE Transactions on Control Systems Technology</i> , 2017 , 25, 301-308	4.8	13
141	Data fusion for fault diagnosis in smart grid power systems 2017 ,		8
140	One-class classifiers for detecting faults in induction motors 2017 ,		6
139	Improved power curve monitoring of wind turbines. <i>Wind Engineering</i> , 2017 , 41, 260-271	1.2	16
138	Application of imputation techniques and Adaptive Neuro-Fuzzy Inference System to predict wind turbine power production. <i>Energy</i> , 2017 , 138, 394-404	7.9	31
137	Applying Computer Models to Realize Closed-Loop Neonatal Oxygen Therapy. <i>Anesthesia and Analgesia</i> , 2017 , 124, 95-103	3.9	7
136	Observer design for a class of nonlinear fractional-order systems with unknown input. <i>Journal of the Franklin Institute</i> , 2017 , 354, 5503-5518	4	27
135	Adaptive incremental ensemble of extreme learning machines for fault diagnosis in induction motors 2017 ,		7

134	Multi-class heteroscedastic linear dimensionality reduction scheme for diagnosing process faults 2017 ,		2
133	Multi-step parallel-strategy for estimating the remaining useful life of batteries 2017 ,		1
132	Electrochemical-Thermal Model of Pouch-type Lithium-ion Batteries. <i>Electrochimica Acta</i> , 2017 , 247, 569-587	6.7	66
131	Stabilisation and control of a class of discrete-time nonlinear stochastic output-dependent system with random missing measurements. <i>International Journal of Control</i> , 2017 , 90, 1678-1687	1.5	10
130	Functional observer design for retarded system with interval time-varying delays. <i>International Journal of Systems Science</i> , 2017 , 48, 1060-1070	2.3	6
129	Complete Neuron-Astrocyte Interaction Model: Digital Multiplierless Design and Networking Mechanism. <i>IEEE Transactions on Biomedical Circuits and Systems</i> , 2017 , 11, 117-127	5.1	18
128	A Hybrid Scheme for Fault Diagnosis with Partially Labeled Sets of Observations 2017 ,		7
127	A Hybrid Ensemble Scheme for Diagnosing New Class Defects under Non-stationary and Class Imbalance Conditions 2017 ,		3
126	An Integrated Class-Imbalanced Learning Scheme for Diagnosing Bearing Defects in Induction Motors. <i>IEEE Transactions on Industrial Informatics</i> , 2017 , 13, 2758-2769	11.9	84
125	Broken rotor bars detection in induction motors using Cubature Kalman Filter 2017 ,		3
124	Harmonic Fault Diagnosis in Power Quality System Using Harmonic Wavelet. <i>IFAC-PapersOnLine</i> , 2017 , 50, 13569-13574	0.7	6
123	A PVT resistant coarse-fine time-to-digital converter 2017 ,		2
122	Fractional order unknown input filter design for fault detection of discrete linear systems 2017 ,		1
121	Robust fault-tolerant control of uncertain networked control systems subject to random delays and data packet dropouts 2017 ,		6
120	Dimensionality reduction-based diagnosis of bearing defects in induction motors 2017 ,		7
119	Human activity recognition using an ensemble of support vector machines 2016 ,		3
118	VLSI implementable neuron-astrocyte control mechanism. <i>Neurocomputing</i> , 2016 , 214, 280-296	5.4	19
117	Data-driven prognostic techniques for estimation of the remaining useful life of lithium-ion batteries 2016 ,		6

116	High accuracy implementation of Adaptive Exponential integrated and fire neuron model 2016,		4
115	Hardware implementation of deep brain stimulator on a biophysical neural population model 2016,		1
114	Evolving Spiking Neural Networks of artificial creatures using Genetic Algorithm 2016,		2
113	Efficient feature extraction of vibration signals for diagnosing bearing defects in induction motors 2016,		17
112	Observer normal forms for a class of Predator-Prey models. <i>Journal of the Franklin Institute</i> , 2016, 353, 2178-2198	4	3
111	. <i>IEEE Transactions on Vehicular Technology</i> , 2016, 65, 9747-9758	6.8	26
110	Adaptive Fault Tolerant Control of a Half-Car Active Suspension Systems Subject to Random Actuator Failures. <i>IEEE/ASME Transactions on Mechatronics</i> , 2016, 21, 2847-2857	5.5	36
109	Multi-step-ahead prediction techniques for Lithium-ion batteries condition prognosis 2016,		3
108	Identifiability analysis of an electrochemical model of li-ion battery 2016,		1
107	Imputation of missing data using fuzzy neighborhood density-based clustering 2016,		6
106	Ensemble of extreme learning machines for diagnosing bearing defects in non-stationary environments under class imbalance condition 2016,		6
105	Efficient sampling techniques for ensemble learning and diagnosing bearing defects under class imbalanced condition 2016,		16
104	Human Action Recognition by Fusing the Outputs of Individual Classifiers 2016,		2
103	A supervised cooperative clustering scheme for diagnosing process faults in an industrial plant 2016,		2
102	A new clustering method using wavelet based probability density functions for identifying patterns in time-series data 2016,		10
101	Proportional-Integral Observer in Robust Control, Fault Detection, and Decentralized Control of Dynamic Systems. <i>Studies in Systems, Decision and Control</i> , 2015, 13-43	0.8	10
100	Impact of increased penetration of large-scale wind farms on power system dynamic stability - A review 2015,		6
99	Two-Level Robust Optimal Control of Large-Scale Nonlinear Systems. <i>IEEE Systems Journal</i> , 2015, 9, 242-251	4.5	13

98	Diagnosis of Bearing Defects in Induction Motors by Fuzzy-Neighborhood Density-Based Clustering 2015,		13
97	Multiple Imputation of Missing Residuals for Fault Classification: A Wind Turbine Application 2015,		3
96	Imputation of Missing Data for Diagnosing Sensor Faults in a Wind Turbine 2015,		4
95	Wi-Fi based indoor location positioning employing random forest classifier 2015,		28
94	Health monitoring of Li-ion batteries: A particle filtering approach 2015,		1
93	Wind-PV-storage optimal environomic design using multi-objective Artificial Bee Colony 2015,		2
92	Integrated Battery Management System 2015, 173-193		4
91	Simultaneous Fault Isolation and Estimation of Lithium-Ion Batteries via Synthesized Design of Luenberger and Learning Observers. <i>IEEE Transactions on Control Systems Technology</i> , 2014 , 22, 290-298 ^{4.8}	89	
90	Heat response of prismatic Li-ion cells 2014,		1
89	Application of Dynamic Cell Resistance for determination of state of charge 2014,		2
88	Nonlinear model predictive control for cell balancing in Li-ion battery packs 2014,		18
87	Accurate state estimation in DC-DC converters using a Proportional-Integral Observer (PIO) 2014,		5
86	Adaptive super twisting sliding mode control of a HVAC system 2014,		1
85	Fault Detection in Nonlinear Stable Systems Over Lossy Networks. <i>IEEE Transactions on Control Systems Technology</i> , 2013 , 21, 2129-2142	4.8	20
84	Optimal Filtering for $\hat{0}$ -Stochastic Continuous-Time Systems With Multiple Delayed Measurements. <i>IEEE Transactions on Automatic Control</i> , 2013 , 58, 1872-1877	5.9	18
83	Diagnostics in Lithium-Ion Batteries: Challenging Issues and Recent Achievements 2013, 277-291		11
82	Robust Control of an HVAC System via a Super-Twisting Sliding Mode Technique 2013,		2
81	Plating Mechanism Detection in Lithium-ion batteries, by using a particle-filtering based estimation technique 2013,		9

80	Fast state estimation subject to random data loss in discrete-time nonlinear stochastic systems. <i>International Journal of Control</i> , 2013 , 86, 2302-2314	1.5	3
79	Nonlinear Observer Normal Forms for Some Predator-Prey Models. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2013 , 46, 682-687		1
78	A second order sliding mode strategy for fault detection and fault-tolerant-control of a MEMS optical switch. <i>Mechatronics</i> , 2012 , 22, 696-705	3	13
77	Cycle Adaptive Feedforward Approach Controllers for an Electromagnetic Valve Actuator. <i>IEEE Transactions on Control Systems Technology</i> , 2012 , 20, 738-746	4.8	15
76	A QFT-Based Decentralized Design Approach for Integrated Fault Detection and Control. <i>IEEE Transactions on Control Systems Technology</i> , 2012 , 20, 1366-1375	4.8	16
75	An electrochemical model-based particle filter approach for Lithium-ion battery estimation 2012 ,		26
74	Estimation of Lithium Transport Rate in Lithium-ion Batteries - A Particle Filtering Approach. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2012 , 45, 116-121		1
73	Power System State Estimation Using Contraction Mapping and Singular Value Decomposition. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2011 , 44, 1692-1697		0
72	Distributed Particle Filter for Nonlinear Hybrid Systems Based on Average Consensus Filter. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2011 , 44, 2767-2772		
71	Robust decentralized PI observer for linear interconnected systems 2011 ,		6
70	Actuator fault diagnosis for a class of nonlinear systems and its application to a laboratory 3D crane. <i>Automatica</i> , 2011 , 47, 1435-1442	5.7	30
69	PEM fuel cell low flow FDI. <i>Journal of Process Control</i> , 2011 , 21, 602-612	3.9	19
68	Approach control of an electromechanical valve actuator using closed-loop iterative learning control 2011 ,		3
67	Challenges and Opportunities in PEM Fuel Cell Systems 2011 , 171-183		
66	Fuzzy Nonlinear Unknown Input Observer Design with Fault Diagnosis Applications. <i>JVC/Journal of Vibration and Control</i> , 2010 , 16, 377-401	2	28
65	Robust Fault Diagnosis of a Satellite System Using a Learning Strategy and Second Order Sliding Mode Observer. <i>IEEE Systems Journal</i> , 2010 , 4, 112-121	4.3	35
64	Two-phase flow measurement system for polymer electrolyte fuel cells. <i>Journal of Power Sources</i> , 2010 , 195, 3250-3255	8.9	3
63	Pressure-voltage oscillations as a diagnostic tool for PEFC cathodes. <i>Electrochemistry Communications</i> , 2010 , 12, 122-124	5.1	35

62	Application of combined support vector machines in process fault diagnosis 2009 ,		9
61	. <i>Canadian Journal of Electrical and Computer Engineering</i> , 2009 , 34, 11-14	1.4	
60	Model-based Robust Fault Diagnosis for Satellite Control Systems Using Learning and Sliding Mode Approaches. <i>Journal of Computers</i> , 2009 , 4,	1.4	10
59	High Order Sliding Mode Observers and Differentiators Application to Fault Diagnosis Problem 2008 , 321-344		3
58	Output Feedback Controller Design for a Class of MIMO Nonlinear Systems Using High-Order Sliding-Mode Differentiators With Application to a Laboratory 3-D Crane. <i>IEEE Transactions on Industrial Electronics</i> , 2008 , 55, 3985-3997	8.9	48
57	Output estimator based fault detection for a class of nonlinear systems with unknown inputs 2008 ,		1
56	Cycle adaptive feedforward approach control of an electromagnetic valve actuator 2008 ,		7
55	Actuator Fault Diagnosis Using High-Order Sliding Mode Differentiator (HOSMD) and Its Application to a Laboratory 3D Crane. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2008 , 41, 4809-4814		2
54	Adaptive Fault Detection for a Class of Nonlinear Systems Based on Output Estimator Design. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2008 , 41, 10118-10123		1
53	Actuator fault diagnosis for uncertain linear systems using a high-order sliding-mode robust differentiator (HOSMRD). <i>International Journal of Robust and Nonlinear Control</i> , 2008 , 18, 413-426	3.6	43
52	A new algorithm for finding the optimal solution of the least absolute value estimation problem. <i>Canadian Journal of Electrical and Computer Engineering</i> , 2007 , 32, 5-8	1.4	1
51	The asymptotic stability of nonlinear autonomous systems. <i>Canadian Journal of Electrical and Computer Engineering</i> , 2007 , 32, 35-43	1.4	2
50	Robust Fault Detection and Diagnosis for a Multiple Satellite Formation Flying System Using Second Order Sliding Mode and Wavelet Networks. <i>Proceedings of the American Control Conference</i> , 2007 ,	1.2	8
49	A sliding mode observer-based strategy for fault detection, isolation, and estimation in a class of Lipschitz nonlinear systems. <i>International Journal of Systems Science</i> , 2007 , 38, 943-955	2.3	53
48	Observer-based strategies for actuator fault detection, isolation and estimation for certain class of uncertain nonlinear systems. <i>IET Control Theory and Applications</i> , 2007 , 1, 1672-1680	2.5	88
47	Adaptive Sensor Fault Detection and Isolation in Uncertain Systems. <i>Proceedings of the American Control Conference</i> , 2007 ,	1.2	7
46	Actuator fault diagnosis for affine nonlinear systems with unknown inputs 2007 ,		6
45	Observer-Based Fault Diagnosis of Satellite Systems Subject to Time-Varying Thruster Faults. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME</i> , 2007 , 129, 352-356	1.6	89

44	An overview of robust model-based fault diagnosis for satellite systems using sliding mode and learning approaches 2007 ,		1
43	Robust fault detection and diagnosis in a class of nonlinear systems using a neural sliding mode observer. <i>International Journal of Systems Science</i> , 2007 , 38, 881-899	2.3	15
42	Adaptive actuator fault detection, isolation and accommodation in uncertain systems. <i>International Journal of Control</i> , 2007 , 80, 45-63	1.5	59
41	Repetitive Learning Observer Based Actuator Fault Detection, Isolation, and Estimation with Application to a Satellite Attitude Control System. <i>Proceedings of the American Control Conference</i> , 2007 ,	1.2	10
40	. <i>Proceedings of the American Control Conference</i> , 2007 ,	1.2	12
39	2006 ,		7
38	Sliding mode output estimator based fault detection, isolation and estimation for systems with unmatched unknown inputs 2006 ,		5
37	An iterative learning observer for fault detection and accommodation in nonlinear time-delay systems. <i>International Journal of Robust and Nonlinear Control</i> , 2006 , 16, 1-19	3.6	97
36	Sliding Mode Output Estimator Based Fault Detection, Isolation and Estimation for Systems with Unmatched Unknown Inputs 2006 ,		3
35	PASSIVITY AND PASSIVITY BASED CONTROLLER DESIGN OF A CLASS OF SWITCHED CONTROL SYSTEMS. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2005 , 38, 676-681		16
34	A Novel Fuzzy System With Dynamic Rule Base. <i>IEEE Transactions on Fuzzy Systems</i> , 2005 , 13, 569-582	8.3	20
33	Sliding Mode Observers and Their Application in Fault Diagnosis 2003 , 1-57		16
32	Unknown disturbance inputs estimation based on a state functional observer design. <i>Automatica</i> , 2003 , 39, 1389-1398	5.7	165
31	A ROBUST ITERATIVE LEARNING OBSERVER BASED FAULT DIAGNOSIS OF TIME DELAY NONLINEAR SYSTEMS. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2002 , 35, 401-406		
30	Sliding mode observer for nonlinear uncertain systems. <i>IEEE Transactions on Automatic Control</i> , 2001 , 46, 2012-2017	5.9	178
29	Neural Network Based Direct Optimizing Predictive Control With On-Line Pid Gradient Optimization. <i>Intelligent Automation and Soft Computing</i> , 2001 , 7, 107-123	2.6	1
28	Robust fault detection and isolation via a diagnostic observer. <i>International Journal of Robust and Nonlinear Control</i> , 2000 , 10, 1175-1192	3.6	28
27	Neural-networks-based nonlinear dynamic modeling for automotive engines. <i>Neurocomputing</i> , 2000 , 30, 129-142	5.4	45

26	Observer design based on triangular form generated by injective map. <i>IEEE Transactions on Automatic Control</i> , 2000 , 45, 1350-1355	5.9	30
25	A state observer for nonlinear systems. <i>IEEE Transactions on Automatic Control</i> , 1999 , 44, 2098-2103	5.9	25
24	Functional observers for linear systems with unknown inputs. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 1999 , 32, 1832-1837		2
23	Observer design and fault diagnosis for state-retarded dynamical systems. <i>Automatica</i> , 1998 , 34, 217-223	3.7	61
22	An observer for a class of disturbance driven nonlinear systems. <i>Applied Mathematics Letters</i> , 1998 , 11, 109-113	3.5	83
21	State observation, failure detection and isolation (FDI) in bilinear systems. <i>International Journal of Control</i> , 1997 , 67, 901-920	1.5	34
20	Force and position control of grasp in multiple robotic mechanisms. <i>Journal of Field Robotics</i> , 1996 , 13, 515-525		3
19	Fault Detection and Diagnosis of a Nuclear Power Plant Using Artificial Neural Networks. <i>Journal of Intelligent and Fuzzy Systems</i> , 1995 , 3, 197-213	1.6	1
18	. <i>IEEE Transactions on Aerospace and Electronic Systems</i> , 1993 , 29, 685-695	3.7	146
17	Reduced order proportional integral observer with application. <i>Journal of Guidance, Control, and Dynamics</i> , 1993 , 16, 985-988	2.1	17
16	Robust servo design with applications. <i>IEE Proceedings D: Control Theory and Applications</i> , 1993 , 140, 87		9
15	A Disturbance Accommodating Estimator for Bilinear Systems 1993 ,		6
14	Decentralized state estimation in large-scale interconnected dynamical systems. <i>Automatica</i> , 1992 , 28, 215-219	5.7	43
13	Techniques in Robust State Estimation Theory with Applications. <i>Control and Dynamic Systems</i> , 1992 , 261-298		3
12	. <i>IEEE Transactions on Automatic Control</i> , 1991 , 36, 632-635	5.9	196
11	Design of a Trajectory Insensitive Regulator With Prescribed Degree of Stability. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME</i> , 1990 , 112, 513-516	1.6	
10	. <i>IEEE Transactions on Nuclear Science</i> , 1989 , 36, 1317-1325	1.7	8
9	. <i>IEEE Transactions on Nuclear Science</i> , 1989 , 36, 2459-2465	1.7	3

8	Optimal linear regulator pole-placement by weight selection. <i>International Journal of Control</i> , 1989 , 50, 399-414	1.5	36
7	Efficient optimal controller for nuclear power plants. <i>International Journal of Systems Science</i> , 1989 , 20, 1593-1610	2.3	
6	Optimal modal controller design by entire eigenstructure assignment. <i>IEE Proceedings D: Control Theory and Applications</i> , 1989 , 136, 341		6
5			4
4	Robust Fault Diagnosis for a Satellite System Using a Neural Sliding Mode Observer		4
3	Deep Learning with Long Short-Term Memory Networks for Diagnosing Faults in Smart Grids. <i>European Journal for Security Research</i> , 1	0.9	1
2	Practical finite time vibration suppression of mechatronic systems using proportionalIntegralDerivative variable structure controls with dead-band nonlinearity. <i>Proceedings of the Institution of Mechanical Engineers Part I: Journal of Systems and Control Engineering</i> , 095965182110143	1	
1	Event-based fast terminal sliding mode control design for a class of uncertain nonlinear systems with input delay: A quantized feedback control. <i>JVC/Journal of Vibration and Control</i> , 107754632110709	2	1