

Mehrdad Saif

List of Publications by Year in descending order

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280
papers

6,096
citations

76196

40
h-index

106150

65
g-index

283
all docs

283
docs citations

283
times ranked

4236
citing authors

#	ARTICLE	IF	CITATIONS
1	A novel approach to the design of unknown input observers. IEEE Transactions on Automatic Control, 1991, 36, 632-635.	3.6	263
2	Sliding mode observer for nonlinear uncertain systems. IEEE Transactions on Automatic Control, 2001, 46, 2012-2017.	3.6	241
3	Unknown disturbance inputs estimation based on a state functional observer design. Automatica, 2003, 39, 1389-1398.	3.0	211
4	A new approach to robust fault detection and identification. IEEE Transactions on Aerospace and Electronic Systems, 1993, 29, 685-695.	2.6	182
5	Failure Prognosis and Applicationsâ€”A Survey of Recent Literature. IEEE Transactions on Reliability, 2021, 70, 728-748.	3.5	176
6	An iterative learning observer for fault detection and accommodation in nonlinear time-delay systems. International Journal of Robust and Nonlinear Control, 2006, 16, 1-19.	2.1	134
7	Simultaneous Fault Isolation and Estimation of Lithium-Ion Batteries via Synthesized Design of Luenberger and Learning Observers. IEEE Transactions on Control Systems Technology, 2014, 22, 290-298.	3.2	120
8	Observer-Based Fault Diagnosis of Satellite Systems Subject to Time-Varying Thruster Faults. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2007, 129, 352-356.	0.9	114
9	Information Fusion and Semi-Supervised Deep Learning Scheme for Diagnosing Gear Faults in Induction Machine Systems. IEEE Transactions on Industrial Electronics, 2019, 66, 6331-6342.	5.2	109
10	Observer-based strategies for actuator fault detection, isolation and estimation for certain class of uncertain nonlinear systems. IET Control Theory and Applications, 2007, 1, 1672-1680.	1.2	107
11	An Integrated Class-Imbalanced Learning Scheme for Diagnosing Bearing Defects in Induction Motors. IEEE Transactions on Industrial Informatics, 2017, 13, 2758-2769.	7.2	106
12	Electrochemicalâ€”Thermal Model of Pouch-type Lithium-ion Batteries. Electrochimica Acta, 2017, 247, 569-587.	2.6	98
13	Critical Wind Turbine Components Prognostics: A Comprehensive Review. IEEE Transactions on Instrumentation and Measurement, 2020, 69, 9306-9328.	2.4	96
14	An observer for a class of disturbance driven nonlinear systems. Applied Mathematics Letters, 1998, 11, 109-113.	1.5	85
15	A Bidirectional Power Charging Control Strategy for Plug-in Hybrid Electric Vehicles. Sustainability, 2019, 11, 4317.	1.6	77
16	A New Hybrid Fault Detection Method for Wind Turbine Blades Using Recursive PCA and Wavelet-Based PDF. IEEE Sensors Journal, 2020, 20, 2023-2033.	2.4	75
17	Observer design and fault diagnosis for state-retarded dynamical systems. Automatica, 1998, 34, 217-227.	3.0	73
18	A Semi-Supervised Diagnostic Framework Based on the Surface Estimation of Faulty Distributions. IEEE Transactions on Industrial Informatics, 2019, 15, 1277-1286.	7.2	70

#	ARTICLE	IF	CITATIONS
19	Adaptive actuator fault detection, isolation and accommodation in uncertain systems. International Journal of Control, 2007, 80, 45-63.	1.2	69
20	A New Fault Diagnosis of Multifunctional Spoiler System Using Integrated Artificial Neural Network and Discrete Wavelet Transform Methods. IEEE Sensors Journal, 2018, 18, 4990-5001.	2.4	67
21	A sliding mode observer-based strategy for fault detection, isolation, and estimation in a class of Lipschitz nonlinear systems. International Journal of Systems Science, 2007, 38, 943-955.	3.7	65
22	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. IEEE Transactions on Industrial Electronics, 2008, 55, 3985-3997.	5.2	64
23	Wi-Fi based indoor location positioning employing random forest classifier. , 2015, , .		64
24	Optimal linear regulator pole-placement by weight selection. International Journal of Control, 1989, 50, 399-414.	1.2	60
25	Neural-networks-based nonlinear dynamic modeling for automotive engines. Neurocomputing, 2000, 30, 129-142.	3.5	57
26	Decentralized state estimation in large-scale interconnected dynamical systems. Automatica, 1992, 28, 215-219.	3.0	55
27	Adaptive Fault Tolerant Control of a Half-Car Active Suspension Systems Subject to Random Actuator Failures. IEEE/ASME Transactions on Mechatronics, 2016, 21, 2847-2857.	3.7	55
28	Actuator fault diagnosis for uncertain linear systems using a high-order sliding-mode robust differentiator (HOSMRD). International Journal of Robust and Nonlinear Control, 2008, 18, 413-426.	2.1	52
29	An integrated imputation-prediction scheme for prognostics of battery data with missing observations. Expert Systems With Applications, 2019, 115, 709-723.	4.4	52
30	An Integrated Feature-Based Failure Prognosis Method for Wind Turbine Bearings. IEEE/ASME Transactions on Mechatronics, 2020, 25, 1468-1478.	3.7	52
31	Multi-Feature Fusion Approach for Epileptic Seizure Detection From EEG Signals. IEEE Sensors Journal, 2021, 21, 3533-3543.	2.4	50
32	Correlation Clustering Imputation for Diagnosing Attacks and Faults With Missing Power Grid Data. IEEE Transactions on Smart Grid, 2020, 11, 1453-1464.	6.2	49
33	State observation, failure detection and isolation (FDI) in bilinear systems. International Journal of Control, 1997, 67, 901-920.	1.2	47
34	A Novelty Detector and Extreme Verification Latency Model for Nonstationary Environments. IEEE Transactions on Industrial Electronics, 2019, 66, 561-570.	5.2	47
35	Adversarial Semi-Supervised Learning for Diagnosing Faults and Attacks in Power Grids. IEEE Transactions on Smart Grid, 2021, 12, 3468-3478.	6.2	47
36	Fuzzy Nonlinear Unknown Input Observer Design with Fault Diagnosis Applications. JVC/Journal of Vibration and Control, 2010, 16, 377-401.	1.5	46

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37	Pressure-voltage oscillations as a diagnostic tool for PEFC cathodes. <i>Electrochemistry Communications</i> , 2010, 12, 122-124.	2.3	45
38	A New Fusion Estimation Method for Multi-Rate Multi-Sensor Systems With Missing Measurements. <i>IEEE Access</i> , 2020, 8, 47522-47532.	2.6	45
39	Observer design based on triangular form generated by injective map. <i>IEEE Transactions on Automatic Control</i> , 2000, 45, 1350-1355.	3.6	44
40	Similarity-learning information-fusion schemes for missing data imputation. <i>Knowledge-Based Systems</i> , 2020, 187, 104805.	4.0	44
41	Application of imputation techniques and Adaptive Neuro-Fuzzy Inference System to predict wind turbine power production. <i>Energy</i> , 2017, 138, 394-404.	4.5	41
42	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.	2.9	40
43	Actuator fault diagnosis for a class of nonlinear systems and its application to a laboratory 3D crane. <i>Automatica</i> , 2011, 47, 1435-1442.	3.0	40
44	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.	7.2	40
45	A state observer for nonlinear systems. <i>IEEE Transactions on Automatic Control</i> , 1999, 44, 2098-2103.	3.6	39
46	A Fast and Resource Efficient Method for Indoor Positioning Using Received Signal Strength. <i>IEEE Transactions on Vehicular Technology</i> , 2016, 65, 9747-9758.	3.9	37
47	Robust fault detection and isolation via a diagnostic observer. <i>International Journal of Robust and Nonlinear Control</i> , 2000, 10, 1175-1192.	2.1	36
48	Observer design for a class of nonlinear fractional-order systems with unknown input. <i>Journal of the Franklin Institute</i> , 2017, 354, 5503-5518.	1.9	35
49	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.	7.2	35
50	Observer-Based Attack Detection and Mitigation for Cyberphysical Systems: A Review. <i>IEEE Systems, Man, and Cybernetics Magazine</i> , 2021, 7, 35-60.	1.2	35
51	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.	0.4	34
52	Power production prediction of wind turbines using a fusion of MLP and ANFIS networks. <i>IET Renewable Power Generation</i> , 2018, 12, 1025-1033.	1.7	34
53	A New Hybrid Fault Prognosis Method for MFS Systems Based on Distributed Neural Networks and Recursive Bayesian Algorithm. <i>IEEE Systems Journal</i> , 2020, 14, 5407-5416.	2.9	34
54	VLSI implementable neuron-astrocyte control mechanism. <i>Neurocomputing</i> , 2016, 214, 280-296.	3.5	33

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55	A Modular Fault Diagnosis and Prognosis Method for Hydro-Control Valve System Based on Redundancy in Multisensor Data Information. IEEE Transactions on Reliability, 2019, 68, 330-341.	3.5	33
56	A Novel On-Board DC/DC Converter Controller Feeding Uncertain Constant Power Loads. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2021, 9, 1233-1240.	3.7	33
57	Recent Survey of Large-Scale Systems: Architectures, Controller Strategies, and Industrial Applications. IEEE Systems Journal, 2021, 15, 5440-5453.	2.9	32
58	Generative adversarial dimensionality reduction for diagnosing faults and attacks in cyber-physical systems. Neurocomputing, 2021, 440, 101-110.	3.5	32
59	An electrochemical model-based particle filter approach for Lithium-ion battery estimation. , 2012, , .		30
60	A Fast Fault Detection and Identification Approach in Power Distribution Systems. , 2019, , .		30
61	Robust Interval Type-2 Fuzzy Observer for Fault Detection of Networked Control Systems Subject to Immeasurable Premise Variables. IEEE Systems Journal, 2019, 13, 2954-2965.	2.9	29
62	A Novel Fuzzy System With Dynamic Rule Base. IEEE Transactions on Fuzzy Systems, 2005, 13, 569-582.	6.5	27
63	Improved Distributed Prescribed Finite-Time Secondary Control of Inverter-Based Microgrids: Design and Real-Time Implementation. IEEE Transactions on Industrial Electronics, 2021, 68, 11135-11145.	5.2	27
64	Nonlinear model predictive control for cell balancing in Li-ion battery packs. , 2014, , .		26
65	Complete Neuron-Astrocyte Interaction Model: Digital Multiplierless Design and Networking Mechanism. IEEE Transactions on Biomedical Circuits and Systems, 2017, 11, 117-127.	2.7	26
66	Unsupervised concrete feature selection based on mutual information for diagnosing faults and cyber-attacks in power systems. Engineering Applications of Artificial Intelligence, 2021, 100, 104150.	4.3	26
67	Fault Detection in Nonlinear Stable Systems Over Lossy Networks. IEEE Transactions on Control Systems Technology, 2013, 21, 2129-2142.	3.2	25
68	Improved Estimation for Well-Logging Problems Based on Fusion of Four Types of Kalman Filters. IEEE Transactions on Geoscience and Remote Sensing, 2018, 56, 647-654.	2.7	24
69	A Novel Approach to Reliable Sensor Selection and Target Tracking in Sensor Networks. IEEE Transactions on Industrial Informatics, 2020, 16, 171-182.	7.2	24
70	Robust and Reliable Output Feedback Control for Uncertain Networked Control Systems Against Actuator Faults. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2022, 52, 2555-2564.	5.9	24
71	Sliding Mode Observers and Their Application in Fault Diagnosis. , 2003, , 1-57.		23
72	Efficient feature extraction of vibration signals for diagnosing bearing defects in induction motors. , 2016, , .		23

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73	Improved power curve monitoring of wind turbines. Wind Engineering, 2017, 41, 260-271.	1.1	23
74	Fault Location in Smart Grids Through Multicriteria Analysis of Group Decision Support Systems. IEEE Transactions on Industrial Informatics, 2020, 16, 7318-7327.	7.2	23
75	An Improved Droop-Based Control Strategy for MT-HVDC Systems. Electronics (Switzerland), 2020, 9, 87.	1.8	23
76	A Disturbance Accommodating Estimator for Bilinear Systems. , 1993, , .		22
77	An Improved Mixed AC/DC Power Flow Algorithm in Hybrid AC/DC Grids with MT-HVDC Systems. Applied Sciences (Switzerland), 2020, 10, 297.	1.3	22
78	Observer-Based Backstepping Sliding Mode Control Design for Microgrids Feeding a Constant Power Load. IEEE Transactions on Industrial Electronics, 2023, 70, 465-473.	5.2	22
79	PEM fuel cell low flow FDI. Journal of Process Control, 2011, 21, 602-612.	1.7	21
80	Novel Multiagent Model-Predictive Control Performance Indices for Monitoring of a Large-Scale Distributed Water System. IEEE Systems Journal, 2018, 12, 1286-1294.	2.9	21
81	A New Topology of a Fast Proactive Hybrid DC Circuit Breaker for MT-HVDC Grids. Sustainability, 2019, 11, 4493.	1.6	21
82	Reduced order proportional integral observer with application. Journal of Guidance, Control, and Dynamics, 1993, 16, 985-988.	1.6	20
83	Proportional-Integral Observer in Robust Control, Fault Detection, and Decentralized Control of Dynamic Systems. Studies in Systems, Decision and Control, 2015, , 13-43.	0.8	20
84	Controllable Electrochemical Impedance Spectroscopy: From Circuit Design to Control and Data Analysis. IEEE Transactions on Power Electronics, 2020, 35, 9933-9942.	5.4	20
85	Design of a TS Based Fuzzy Nonlinear Unknown Input Observer with Fault Diagnosis Applications. Proceedings of the American Control Conference, 2007, , .	0.0	19
86	Cycle Adaptive Feedforward Approach Controllers for an Electromagnetic Valve Actuator. IEEE Transactions on Control Systems Technology, 2012, 20, 738-746.	3.2	19
87	Optimal Filtering for \hat{o} -Stochastic Continuous-Time Systems With Multiple Delayed Measurements. IEEE Transactions on Automatic Control, 2013, 58, 1872-1877.	3.6	19
88	Efficient sampling techniques for ensemble learning and diagnosing bearing defects under class imbalanced condition. , 2016, , .		19
89	Imputation-based Ensemble Techniques for Class Imbalance Learning. IEEE Transactions on Knowledge and Data Engineering, 2019, , 1-1.	4.0	19
90	Event-Triggered Adaptive Optimal Fast Terminal Sliding Mode Control Under Denial-of-Service Attacks. IEEE Systems Journal, 2022, 16, 2684-2692.	2.9	19

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91	Classical dynamic consensus and opinion dynamics models: A survey of recent trends and methodologies. <i>Information Fusion</i> , 2022, 88, 22-40.	11.7	19
92	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, , .	0.0	18
93	A QFT-Based Decentralized Design Approach for Integrated Fault Detection and Control. <i>IEEE Transactions on Control Systems Technology</i> , 2012, 20, 1366-1375.	3.2	18
94	Hand gesture recognition using force myography of the forearm activities and optimized features. , 2018, , .		18
95	A Novel Stochastic Predictive Stabilizer for DC Microgrids Feeding CPLs. <i>IEEE Journal of Emerging and Selected Topics in Power Electronics</i> , 2021, 9, 1222-1232.	3.7	18
96	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.	3.7	17
97	Diagnosis of Bearing Defects in Induction Motors by Fuzzy-Neighborhood Density-Based Clustering. , 2015, , .		17
98	Two-Level Robust Optimal Control of Large-Scale Nonlinear Systems. <i>IEEE Systems Journal</i> , 2015, 9, 242-251.	2.9	17
99	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.	3.2	17
100	Extreme Learning Machine Based Prognostics of Battery Life. <i>International Journal on Artificial Intelligence Tools</i> , 2018, 27, 1850036.	0.7	17
101	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.	1.1	17
102	A Real-Time Cloud-Based Intelligent Car Parking System for Smart Cities. , 2019, , .		17
103	Volcano eruption algorithm for solving optimization problems. <i>Neural Computing and Applications</i> , 2021, 33, 2321-2337.	3.2	17
104	DLIN: Deep Ladder Imputation Network. <i>IEEE Transactions on Cybernetics</i> , 2022, 52, 8629-8641.	6.2	17
105	Fault detection and isolation in batteries power electronics and chargers. <i>Journal of Energy Storage</i> , 2019, 25, 100807.	3.9	16
106	A Control Oriented Cyber-Secure Strategy Based on Multiple Sensor Fusion. , 2019, , .		16
107	A New Fault Diagnosis Approach for Heavy-Duty Gas Turbines. <i>IEEE/ASME Transactions on Mechatronics</i> , 2022, 27, 3339-3349.	3.7	16
108	Diagnostics in Lithium-Ion Batteries: Challenging Issues and Recent Achievements. , 2013, , 277-291.		15

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109	Modeling, Simulation, and Analysis of Hybrid Electric Vehicle Using MATLAB/Simulink. , 2019, , .		15
110	Failure Diagnosis of Wind Turbine Bearing Using Feature Extraction and a Neuro-Fuzzy Inference System (ANFIS). Lecture Notes in Computer Science, 2019, , 545-556.	1.0	15
111	A second order sliding mode strategy for fault detection and fault-tolerant-control of a MEMS optical switch. Mechatronics, 2012, 22, 696-705.	2.0	14
112	An Adaptive Passive Fault Tolerant Control System for a Steam Turbine Using a PCA Based Inverse Neural Network Control Strategy. , 2018, , .		14
113	A Modular Adaptive Robust Nonlinear Control for Resilient Integration of VSIs Into Emerging Modernized Microgrids. IEEE Journal of Emerging and Selected Topics in Power Electronics, 2021, 9, 2907-2925.	3.7	14
114	Repetitive Learning Observer Based Actuator Fault Detection, Isolation, and Estimation with Application to a Satellite Attitude Control System. Proceedings of the American Control Conference, 2007, , .	0.0	13
115	Plating Mechanism Detection in Lithium-ion batteries, by using a particle-filtering based estimation technique. , 2013, , .		13
116	Applying Computer Models to Realize Closed-Loop Neonatal Oxygen Therapy. Anesthesia and Analgesia, 2017, 124, 95-103.	1.1	13
117	Dimensionality reduction-based diagnosis of bearing defects in induction motors. , 2017, , .		13
118	Analyzing the Vibration Signals for Bearing Defects Diagnosis Using the Combination of SGWT Feature Extraction and SVM. IFAC-PapersOnLine, 2018, 51, 221-227.	0.5	13
119	Maximum Power Point Tracker (MPPT) for Photovoltaic Power Systems-A Systematic Literature Review. , 2018, , .		13
120	A dual approach for positive Tâ€™S fuzzy controller design and its application to cancer treatment under immunotherapy and chemotherapy. Biomedical Signal Processing and Control, 2020, 58, 101822.	3.5	13
121	Ensemble-Based Fault Detection and Isolation of an Industrial Gas Turbine. , 2020, , .		13
122	Model-based Robust Fault Diagnosis for Satellite Control Systems Using Learning and Sliding Mode Approaches. Journal of Computers, 2009, 4, .	0.4	13
123	Optimal modal controller design by entire eigenstructure assignment. IEE Proceedings D: Control Theory and Applications, 1989, 136, 341.	0.4	12
124	Data-driven prognostic techniques for estimation of the remaining useful life of lithium-ion batteries. , 2016, , .		12
125	Data fusion for fault diagnosis in smart grid power systems. , 2017, , .		12
126	FMG- and RNN-Based Estimation of Motor Intention of Upper-Limb Motion in Human-Robot Collaboration. Frontiers in Robotics and AI, 2020, 7, 573096.	2.0	12

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127	Regression Models With Graph-Regularization Learning Algorithms for Accurate Fault Location in Smart Grids. IEEE Systems Journal, 2021, 15, 2012-2023.	2.9	12
128	Robust servo design with applications. IEE Proceedings D: Control Theory and Applications, 1993, 140, 87.	0.4	11
129	Application of combined support vector machines in process fault diagnosis. , 2009, , .		11
130	A new clustering method using wavelet based probability density functions for identifying patterns in time-series data. , 2016, , .		11
131	Stabilisation and control of a class of discrete-time nonlinear stochastic output-dependent system with random missing measurements. International Journal of Control, 2017, 90, 1678-1687.	1.2	11
132	Experimental Comparison Study on Joint and Cartesian Space Control Schemes for a Teleoperation System Under Time-Varying Delay. , 2019, , .		11
133	SMSâ€A Security Management System for Steam Turbines Using a Multisensor Array. IEEE Systems Journal, 2020, 14, 3813-3824.	2.9	11
134	A Novel Approach For Optimal Control Of A Pressurized Water Reactor. IEEE Transactions on Nuclear Science, 1989, 36, 1317-1325.	1.2	10
135	One-class classifiers for detecting faults in induction motors. , 2017, , .		10
136	Adaptive incremental ensemble of extreme learning machines for fault diagnosis in induction motors. , 2017, , .		10
137	Evaluating Architecture Impacts on Deep Imitation Learning Performance for Autonomous Driving. , 2019, , .		10
138	Collision Detection for Human-Robot Interaction in an Industrial Setting using Force Myography and a Deep Learning Approach. , 2019, , .		10
139	Detection of Malicious SCADA Communications via Multi-Subspace Feature Selection. , 2020, , .		10
140	Resilient Consensus Control Design for DC Microgrids against False Data Injection Attacks Using a Distributed Bank of Sliding Mode Observers. Sensors, 2022, 22, 2644.	2.1	10
141	Robust Fault Diagnosis for a Satellite System Using a Neural Sliding Mode Observer. , 0, , .		9
142	Cycle adaptive feedforward approach control of an electromagnetic valve actuator. , 2008, , .		9
143	Imputation of missing data using fuzzy neighborhood density-based clustering. , 2016, , .		9
144	Functional observer design for retarded system with interval time-varying delays. International Journal of Systems Science, 2017, 48, 1060-1070.	3.7	9

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145	Input-output slope curve estimation in neural stimulation based on optimal sampling principles. Journal of Neural Engineering, 2021, 18, 046071.	1.8	9
146	Generative-Adversarial Class-Imbalance Learning for Classifying Cyber-Attacks and Faults - A Cyber-Physical Power System. IEEE Transactions on Dependable and Secure Computing, 2022, 19, 4068-4081.	3.7	9
147	New Condition-Based Monitoring and Fusion Approaches With a Bounded Uncertainty for Bearing Lifetime Prediction. IEEE Sensors Journal, 2022, 22, 9078-9086.	2.4	9
148	A Real-Time Blockchain-Based Multifunctional Integrated Smart Metering System. , 2022, , .		9
149	Application of sliding mode observers for actuator fault detection and isolation in linear systems. , 0, , .		8
150	High-order Sliding-mode Differentiator Based Actuator Fault Diagnosis For Linear Systems with Arbitrary Relative Degree and Unmatched Unknown Inputs. , 2006, , .		8
151	Adaptive Sensor Fault Detection and Isolation in Uncertain Systems. Proceedings of the American Control Conference, 2007, , .	0.0	8
152	Robust decentralized PI observer for linear interconnected systems. , 2011, , .		8
153	Accurate state estimation in DC-DC converters using a Proportional-Integral Observer (PIO). , 2014, , .		8
154	Impact of increased penetration of large-scale wind farms on power system dynamic stability - A review. , 2015, , .		8
155	Evolving Spiking Neural Networks of artificial creatures using Genetic Algorithm. , 2016, , .		8
156	A Hybrid Scheme for Fault Diagnosis with Partially Labeled Sets of Observations. , 2017, , .		8
157	Harmonic Fault Diagnosis in Power Quality System Using Harmonic Wavelet. IFAC-PapersOnLine, 2017, 50, 13569-13574.	0.5	8
158	A Distributed Fault Detection And Isolation Method For Multifunctional Spoiler System. , 2018, , .		8
159	Adversarial Learning on Incomplete and Imbalanced Medical Data for Robust Survival Prediction of Liver Transplant Patients. IEEE Access, 2021, 9, 73641-73650.	2.6	8
160	Actuator fault diagnosis for affine nonlinear systems with unknown inputs. , 2007, , .		7
161	High Order Sliding Mode Observers and Differentiators Application to Fault Diagnosis Problem. , 2008, , 321-344.		7
162	Multi-step-ahead prediction techniques for Lithium-ion batteries condition prognosis. , 2016, , .		7

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163	Ensemble of extreme learning machines for diagnosing bearing defects in non-stationary environments under class imbalance condition. , 2016, , .		7
164	Human activity recognition using an ensemble of support vector machines. , 2016, , .		7
165	Broken rotor bars detection in induction motors using Cubature Kalman Filter. , 2017, , .		7
166	Robust fault-tolerant control of uncertain networked control systems subject to random delays and data packet dropouts. , 2017, , .		7
167	Design of a Cost-Effective Deep Convolutional Neural Network-Based Scheme for Diagnosing Faults in Smart Grids. , 2019, , .		7
168	Intelligent Decision Support and Fusion Models for Fault Detection and Location in Power Grids. IEEE Transactions on Emerging Topics in Computational Intelligence, 2022, 6, 530-543.	3.4	7
169	Decentralized Resilient Output-Feedback Control Design for Networked Control Systems Under Denial-of-Service. IEEE Systems Journal, 2021, , 1-10.	2.9	7
170	Generative Adversarial Networks: A Survey on Training, Variants, and Applications. Intelligent Systems Reference Library, 2022, , 7-29.	1.0	7
171	Consensus-Based Decision Support Model and Fusion Architecture for Dynamic Decision Making. Information Sciences, 2022, 597, 86-104.	4.0	7
172	Two-phase flow measurement system for polymer electrolyte fuel cells. Journal of Power Sources, 2010, 195, 3250-3255.	4.0	6
173	A Hybrid Ensemble Scheme for Diagnosing New Class Defects under Non-stationary and Class Imbalance Conditions. , 2017, , .		6
174	A PVT resilient short-time measurement solution for on-chip testing. Microelectronics Journal, 2018, 75, 35-40.	1.1	6
175	Safe Human Robot Cooperation in Task Performed on the Shared Load. , 2019, , .		6
176	Generative Adversarial Network-Based Scheme for Diagnosing Faults in Cyber-Physical Power Systems. Sensors, 2021, 21, 5173.	2.1	6
177	An Innovative, Adaptive Faulty Signal Rectifier Along with a Switching Controller for Reliable Primary Control of GC-VSIs in CPS-Based Modernized Microgrids. IEEE Transactions on Power Electronics, 2021, 36, 8370-8387.	5.4	6
178	COLI: Collaborative clustering missing data imputation. Pattern Recognition Letters, 2021, 152, 420-427.	2.6	6
179	Event-based fast terminal sliding mode control design for a class of uncertain nonlinear systems with input delay: A quantized feedback control. JVC/Journal of Vibration and Control, 2023, 29, 1791-1805.	1.5	6
180	A Real-Time Blockchain-Based State Estimation System for Battery Energy Storage Systems. , 2022, , .		6

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181	Suboptimal projective control of a pressurized water reactor. IEEE Transactions on Nuclear Science, 1989, 36, 2459-2465.	1.2	5
182	Fault Detection and Diagnosis of a Nuclear Power Plant Using Artificial Neural Networks. Journal of Intelligent and Fuzzy Systems, 1995, 3, 197-213.	0.8	5
183	Sliding mode output estimator based fault detection, isolation and estimation for systems with unmatched unknown inputs. , 2006, , .		5
184	An overview of robust model-based fault diagnosis for satellite systems using sliding mode and learning approaches. , 2007, , .		5
185	Approach control of an electromechanical valve actuator using closed-loop iterative learning control. , 2011, , .		5
186	Imputation of Missing Data for Diagnosing Sensor Faults in a Wind Turbine. , 2015, , .		5
187	Locating Faults in Smart Grids Using Neuroâ€Fuzzy Networks. , 2019, , .		5
188	To Tolerate or To Impute Missing Values in V2X Communications Data?. IEEE Internet of Things Journal, 2022, 9, 11442-11452.	5.5	5
189	Force and position control of grasp in multiple robotic mechanisms. Journal of Field Robotics, 1996, 13, 515-525.	0.7	4
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