

Hamid Reza Shaker

List of Publications by Year in descending order

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125
papers

1,416
citations

304743

22
h-index

477307

29
g-index

125
all docs

125
docs citations

125
times ranked

1000
citing authors

#	ARTICLE	IF	CITATIONS
1	A Novel Fault Location Methodology for Smart Distribution Networks. IEEE Transactions on Smart Grid, 2021, 12, 1277-1288.	9.0	60
2	Optimal energy management in the smart microgrid considering the electrical energy storage system and the demand-side energy efficiency program. Journal of Energy Storage, 2020, 28, 101229.	8.1	47
3	A survey of fault prediction and location methods in electrical energy distribution networks. Measurement: Journal of the International Measurement Confederation, 2021, 184, 109947.	5.0	47
4	Predictive Maintenance for Pump Systems and Thermal Power Plants: State-of-the-Art Review, Trends and Challenges. Sensors, 2020, 20, 2425.	3.8	40
5	A Method for Fault Detection and Diagnostics in Ventilation Units Using Virtual Sensors. Sensors, 2018, 18, 3931.	3.8	38
6	Impedance-Based Fault Location Method for Four-Wire Power Distribution Networks. IEEE Access, 2018, 6, 1342-1349.	4.2	37
7	Frequency-Interval Model Reduction of Bilinear Systems. IEEE Transactions on Automatic Control, 2014, 59, 1948-1953.	5.7	36
8	Fault detection and diagnosis for smart buildings: State of the art, trends and challenges. , 2016, , .		35
9	Distributed Strategy for Optimal Dispatch of Unbalanced Three-Phase Islanded Microgrids. IEEE Transactions on Smart Grid, 2019, 10, 3210-3225.	9.0	35
10	High dimensional very short-term solar power forecasting based on a data-driven heuristic method. Energy, 2021, 219, 119647.	8.8	35
11	Control configuration selection for bilinear systems via generalised Hankel interaction index array. International Journal of Control, 2015, 88, 30-37.	1.9	33
12	Optimal sensor and actuator location for unstable systems. JVC/Journal of Vibration and Control, 2013, 19, 1915-1920.	2.6	31
13	Time-interval model reduction of bilinear systems. International Journal of Control, 2014, 87, 1487-1495.	1.9	31
14	Wind Power Forecasting Using Machine Learning: State of the Art, Trends and Challenges. , 2020, , .		31
15	A Generalized Model for the Optimal Operation of Microgrids in Grid-Connected and Islanded Droop-Based Mode. IEEE Transactions on Smart Grid, 2019, 10, 5032-5045.	9.0	30
16	Novel real-time model-based fault detection method for automatic identification of abnormal energy performance in building ventilation units. Energy and Buildings, 2019, 183, 238-251.	6.7	30
17	A stochastic programming model for the optimal operation of unbalanced three-phase islanded microgrids. International Journal of Electrical Power and Energy Systems, 2020, 115, 105446.	5.5	28
18	Fault Detection and Efficiency Assessment for HVAC Systems Using Non-Intrusive Load Monitoring: A Review. Energies, 2022, 15, 341.	3.1	28

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19	Distribution network fault section identification and fault location using artificial neural network. , 2018, , .		26
20	Generalised gramian framework for model/controller order reduction of switched systems. International Journal of Systems Science, 2011, 42, 1277-1291.	5.5	25
21	Linear and Nonlinear Fault Location in Smart Distribution Network Under Line Parameter Uncertainty. IEEE Transactions on Industrial Informatics, 2021, 17, 8308-8318.	11.3	25
22	Model reduction via time-interval balanced stochastic truncation for linear time invariant systems. International Journal of Systems Science, 2013, 44, 493-501.	5.5	24
23	Lyapunov stability for continuous-time multidimensional nonlinear systems. Nonlinear Dynamics, 2014, 75, 717-724.	5.2	24
24	Fault Location in Double Circuit Medium Power Distribution Networks Using an Impedance-Based Method. Applied Sciences (Switzerland), 2018, 8, 1034.	2.5	23
25	Stability analysis for a class of discrete-time two-dimensional nonlinear systems. Multidimensional Systems and Signal Processing, 2010, 21, 293-299.	2.6	22
26	Control Configuration Selection for Multivariable Nonlinear Systems. Industrial & Engineering Chemistry Research, 2012, 51, 8583-8587.	3.7	22
27	A probabilistic sequence classification approach for early fault prediction in distribution grids using long short-term memory neural networks. Measurement: Journal of the International Measurement Confederation, 2021, 170, 108691.	5.0	21
28	Machine Learning-Based Fault Location for Smart Distribution Networks Equipped with Micro-PMU. Sensors, 2022, 22, 945.	3.8	21
29	Reliability of cyber physical systems with focus on building management systems. , 2016, , .		18
30	An interaction measure for control configuration selection for multivariable bilinear systems. Nonlinear Dynamics, 2013, 72, 165-174.	5.2	17
31	Frequency Interval Cross Gramians for Linear and Bilinear Systems. Asian Journal of Control, 2017, 19, 22-34.	3.0	17
32	Frequency-interval control configuration selection for multivariable bilinear systems. Journal of Process Control, 2013, 23, 894-904.	3.3	16
33	Real Fault Section Estimation in Electrical Distribution Networks Based on the Fault Frequency Component Analysis. Energies, 2019, 12, 1145.	3.1	16
34	Reliability modeling of cyber-physical systems: A holistic overview and challenges. , 2017, , .		14
35	Online Energy Simulator for building fault detection and diagnostics using dynamic energy performance model. International Journal of Low-Carbon Technologies, 2018, 13, 231-239.	2.6	14
36	A stair-step probabilistic approach for automatic anomaly detection in building ventilation system operation. Building and Environment, 2019, 157, 165-171.	6.9	14

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37	Optimal Outage Management Model Considering Emergency Demand Response Programs for a Smart Distribution System. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 7406.	2.5	14
38	Real Fault Location in a Distribution Network Using Smart Feeder Meter Data. <i>Energies</i> , 2021, 14, 3242.	3.1	14
39	Fault location in distribution networks based on SVM and impedance-based method using online databank generation. <i>Neural Computing and Applications</i> , 2022, 34, 2375-2391.	5.6	14
40	Gas composition modeling in a reformed Methanol Fuel Cell system using adaptive Neuro-Fuzzy Inference Systems. <i>International Journal of Hydrogen Energy</i> , 2013, 38, 10577-10584.	7.1	13
41	Challenge. , 2015, , .		13
42	High Impedance Fault Detection and Location in Combined Overhead Line and Underground Cable Distribution Networks Equipped with Data Loggers. <i>Energies</i> , 2020, 13, 2331.	3.1	13
43	Commercial Buildings Energy Performance within Context - Occupants in Spotlight. , 2015, , .		13
44	Stability analysis for class of switched nonlinear systems. , 2010, , .		12
45	Control configuration selection for linear stochastic systems. <i>Journal of Process Control</i> , 2014, 24, 146-151.	3.3	11
46	A new data-driven controllability measure with application in intelligent buildings. <i>Energy and Buildings</i> , 2017, 138, 526-529.	6.7	11
47	Fault Isolability Analysis and Optimal Sensor Placement for Fault Diagnosis in Smart Buildings. <i>Energies</i> , 2019, 12, 1601.	3.1	11
48	Effects of mixed electronic loads on the electrical energy systems considering different loading conditions with focus on power quality and billing issues. <i>Applied Energy</i> , 2020, 277, 115558.	10.1	11
49	Accuracy and efficiency enhanced non-linear model order reduction. <i>International Journal of Modelling, Identification and Control</i> , 2007, 2, 147.	0.2	10
50	Control configuration selection for multivariable descriptor systems. , 2012, , .		10
51	Generalized cross-gramian for linear systems. , 2012, , .		9
52	A new fault-location method for HVDC transmission-line based on DC components of voltage and current under line parameter uncertainty. <i>Electrical Engineering</i> , 2017, 99, 573-582.	2.0	9
53	Determining an accurate fault location in electrical energy distribution networks in the presence of DGs using transient analysis. <i>Measurement: Journal of the International Measurement Confederation</i> , 2020, 151, 107270.	5.0	9
54	Predictive maintenance within combined heat and power plants based on a novel virtual sample generation method. <i>Energy Conversion and Management</i> , 2021, 227, 113621.	9.2	9

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55	Spacecraft attitude control: Application of fine trajectory linearization control. <i>Advances in Space Research</i> , 2021, 68, 3663-3676.	2.6	9
56	Switched Systems Reduction Framework Based on Convex Combination of Generalized Gramians. <i>Journal of Control Science and Engineering</i> , 2009, 2009, 1-11.	1.0	8
57	Control reconfigurability of bilinear systems. <i>Journal of Mechanical Science and Technology</i> , 2013, 27, 1117-1123.	1.5	8
58	Frequency interval balanced truncation of discrete-time bilinear systems. <i>Cogent Engineering</i> , 2016, 3, 1203082.	2.2	8
59	Monitoring and evaluation of building ventilation system fans operation using performance curves. <i>Energy and Built Environment</i> , 2020, 1, 307-318.	5.9	8
60	Dynamic Modeling of a Reformed Methanol Fuel Cell System Using Empirical Data and Adaptive Neuro-Fuzzy Inference System Models. <i>Journal of Fuel Cell Science and Technology</i> , 2014, 11, .	0.8	7
61	A Parameter-Free Approach for Fault Section Detection on Distribution Networks Employing Gated Recurrent Unit. <i>Energies</i> , 2021, 14, 6361.	3.1	7
62	A Practical Approach to Validation of Buildingsâ€™ Sensor Data: A Commissioning Experience Report. , 2017, , .		6
63	Optimal trajectory tracking solution: Fractional order viewpoint. <i>Journal of the Franklin Institute</i> , 2019, 356, 1590-1603.	3.4	6
64	Fault detection in ventilation units using dynamic energy performance models. <i>Journal of Building Engineering</i> , 2020, 32, 101635.	3.4	6
65	Relative fault vulnerability prediction for energy distribution networks. <i>Applied Energy</i> , 2022, 322, 119449.	10.1	6
66	Generalized time-limited balanced reduction method. , 2013, , .		5
67	Analysis of the Electrical Quantities Measured by Revenue Meters Under Different Voltage Distortions and the Influences on the Electrical Energy Billing. <i>Energies</i> , 2019, 12, 4757.	3.1	5
68	A New Model Predictive Control Based Method for Control of Grid Connected Inverter Using Predictive Functional Control. , 2020, , .		5
69	An intelligent and cost-effective method for single-phase fault location in conventional distribution systems. <i>Electrical Engineering</i> , 2020, 102, 1975-1991.	2.0	5
70	H 2 optimal filtering for bilinear systems. <i>Nonlinear Dynamics</i> , 2012, 70, 999-1005.	5.2	4
71	Generalized Hankel Interaction Index Array for control structure selection for discrete-time MIMO bilinear processes and plants. , 2014, , .		4
72	Multifunctional control of an NPC converter for the grid integration of renewable energy sources. , 2015, , .		4

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73	Optimal sensors and actuators placement for large-scale unstable systems via restricted genetic algorithm. <i>Engineering Computations</i> , 2017, 34, 2582-2597.	1.4	4
74	The Optimal Energy Management in the Smart Microgrid Considering Demand Response Program and Energy Storage. , 2019, , .		4
75	Consensus-Based Method for Anomaly Detection in VAV Units. <i>Energies</i> , 2019, 12, 468.	3.1	4
76	Transient and steady-state faults location in intelligent distribution networks compensated with D-STATCOM using time-domain equations and distributed line model. <i>Electrical Engineering</i> , 2021, 103, 3033-3048.	2.0	4
77	Machine learning-based very short-term load forecasting in microgrid environment: evaluating the impact of high penetration of PV systems. <i>Electrical Engineering</i> , 2022, 104, 2667-2677.	2.0	4
78	A novel enviro-economic three-stage market-based energy management considering energy storage systems and demand response programs for networked smart microgrids. <i>Electrical Engineering</i> , 0, , 1.	2.0	4
79	A Localized Transient-Based Fault Location Scheme for Distribution Systems. <i>Sensors</i> , 2022, 22, 2723.	3.8	4
80	Generalized gramian framework for model reduction of switched systems. , 2009, , .		3
81	Discussion: "Model Reduction of Large-Scale Discrete Plants With Specified Frequency Domain Balanced Structure" (Zadegan, A., and Zilouchian, A., 2005, <i>ASME J. Dyn. Syst. Meas., Control</i> , 127, pp.) Tj ETQq111d0.784334 rgBT /		3
82	Control reconfigurability of bilinear hydraulic drive systems. , 2011, , .		3
83	Frequency-interval interaction measure for control configuration selection for multivariable processes. , 2013, , .		3
84	Lyapunov stability for continuous-time 2D nonlinear systems. , 2013, , .		3
85	Protection coordination assessment and improvement of electrical network of an industrial complex in connection to power grid: An experience report. , 2018, , .		3
86	A New Practical Approach for Discrimination between Inrush Currents and Internal Faults in Power Transformers. <i>Technology and Economics of Smart Grids and Sustainable Energy</i> , 2020, 5, 1.	2.6	3
87	Relative error model reduction via time-weighted balanced stochastic singular perturbation. <i>JVC/Journal of Vibration and Control</i> , 2012, 18, 2006-2016.	2.6	2
88	Frequency-interval control reconfigurability for automated processes. <i>Natural Hazards</i> , 2014, 72, 1021-1027.	3.4	2
89	Stability analysis and output feedback control for a class of switched nonlinear systems. <i>International Journal of Modelling, Identification and Control</i> , 2014, 22, 328.	0.2	2
90	Integration of DG sources for compensation of unbalanced loads in the power grid. , 2015, , .		2

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91	A new method presentation for locating fault in power distribution networks. , 2016, , .		2
92	Adaptive Control for Revolute Joints Robot Manipulator with Uncertain/Unknown Dynamic Parameters and in Presence of Disturbance in Control Input. , 2017, , .		2
93	On the existence of frequency-interval gramians for bilinear systems. European Journal of Control, 2017, 38, 47-51.	2.6	2
94	Distributed consensus-based economic dispatch considering grid operation. , 2017, , .		2
95	Adverse Condition and Critical Event Prediction in Cranfield Multiphase Flow Facility. , 2017, , .		2
96	A new computationally efficient algorithm for optimal sensors and actuators placement for large-scale systems. , 2017, , .		2
97	A New Matching Algorithm for Fault Section Estimation in Power Distribution Networks. , 2018, , .		2
98	Fault Detection and Diagnostics in Ventilation Units Using Linear Regression Virtual Sensors. , 2018, , .		2
99	A new operational characteristic for diagnosing the healthy and faulty currents of power transformers. Electric Power Systems Research, 2022, 203, 107649.	3.6	2
100	A Novel Fault Location Algorithm for Electrical Networks Considering Distributed Line Model and Distributed Generation Resources. , 2020, , .		2
101	Frequency-domain generalized singular perturbation method for relative error model order reduction. Journal of Control Theory and Applications, 2009, 7, 57-62.	0.8	1
102	Time-weighted balanced stochastic model reduction. , 2011, , .		1
103	Upper and Lower Bounds of Frequency Interval Gramians for a Class of Perturbed Linear Systems. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2012, 45, 713-716.	0.4	1
104	Generalized frequency-interval balanced model reduction method. , 2013, , .		1
105	Dynamic Modeling of a Reformed Methanol Fuel Cell System Using Empirical Data and Adaptive Neuro-Fuzzy Inference System Models. , 2013, , .		1
106	Control configuration selection for multivariable switched dynamical systems and processes. , 2015, , .		1
107	Towards systematic reliability modeling of smart buildings. , 2017, , .		1
108	A Holistic Fuzzy Measure for Load Priority in Under Frequency Load Shedding Schemes. , 2018, , .		1

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109	Adverse condition and critical event prediction in commercial buildings: Danish case study. Energy Informatics, 2018, 1, .	2.3	1
110	Optimal sensors and actuators placement for large-scale switched systems. International Journal of Dynamics and Control, 2019, 7, 147-156.	2.5	1
111	Fault Area Location in Electrical Distribution System Using Smart Meter Data. , 2021, , .		1
112	Accuracy and Efficiency Enhancement in Model Order Reduction of Large Circuits. Midwest Symposium on Circuits and Systems, 2006, , .	1.0	0
113	A New Mixed Method for Relative Error Model Order Reduction. Midwest Symposium on Circuits and Systems, 2006, , .	1.0	0
114	Switched controller order reduction. , 2009, , .		0
115	Optimal Filtering Scheme for Bilinear Discrete-Time Systems: a Linear Matrix Inequality Approach. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2012, 45, 302-306.	0.4	0
116	A brief note on the generalized singular perturbation approximation. , 2015, , .		0
117	Generalization of the $\hat{\mu}$ -method for decentralized economic dispatch considering reactive resources. , 2017, , .		0
118	Harmonic Interaction Effects on Power Quality and Electrical Energy Measurement System. , 2019, , .		0
119	A Mixed of Nonlinear Loads and their Effects on the Electrical Energy Billing. , 2020, , .		0
120	Harmonic Interaction among Electronic Loads and Its Effects on the Electrical Quantities and Billing: Case Study with Lighting Devices. , 2020, , .		0
121	Transient Analysis of Tidal Power Plant Connected to Network When Faced with Symmetrical and Unsymmetrical Faults. , 2020, , .		0
122	A Novel Probabilistic Risk-Based Energy Management Model in the Smart MicroGrids. , 2021, , .		0
123	Wind Power Forecasting for the Danish Transmission System Operator Using Machine Learning. , 2021, , .		0
124	Fault Recoverability Analysis via Cross-Gramian. Lecture Notes in Mechanical Engineering, 2017, , 377-386.	0.4	0
125	A Multi-Objective Constrained Robust Optimization Based on NSGA-II Algorithm. , 2021, , .		0