

# Hamid Reza Shaker

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/8549980/publications.pdf>

Version: 2024-02-01

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	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
2	A new operational characteristic for diagnosing the healthy and faulty currents of power transformers. <i>Electric Power Systems Research</i> , 2022, 203, 107649.	3.6	2
3	Fault Detection and Efficiency Assessment for HVAC Systems Using Non-Intrusive Load Monitoring: A Review. <i>Energies</i> , 2022, 15, 341.	3.1	28
4	Machine Learning-Based Fault Location for Smart Distribution Networks Equipped with Micro-PMU. <i>Sensors</i> , 2022, 22, 945.	3.8	21
5	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
6	A Localized Transient-Based Fault Location Scheme for Distribution Systems. <i>Sensors</i> , 2022, 22, 2723.	3.8	4
7	Relative fault vulnerability prediction for energy distribution networks. <i>Applied Energy</i> , 2022, 322, 119449.	10.1	6
8	A Novel Fault Location Methodology for Smart Distribution Networks. <i>IEEE Transactions on Smart Grid</i> , 2021, 12, 1277-1288.	9.0	60
9	A probabilistic sequence classification approach for early fault prediction in distribution grids using long short-term memory neural networks. <i>Measurement: Journal of the International Measurement Confederation</i> , 2021, 170, 108691.	5.0	21
10	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
11	High dimensional very short-term solar power forecasting based on a data-driven heuristic method. <i>Energy</i> , 2021, 219, 119647.	8.8	35
12	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
13	Real Fault Location in a Distribution Network Using Smart Feeder Meter Data. <i>Energies</i> , 2021, 14, 3242.	3.1	14
14	A Novel Probabilistic Risk-Based Energy Management Model in the Smart MicroGrids. , 2021, , .		0
15	Wind Power Forecasting for the Danish Transmission System Operator Using Machine Learning. , 2021, , .		0
16	Spacecraft attitude control: Application of fine trajectory linearization control. <i>Advances in Space Research</i> , 2021, 68, 3663-3676.	2.6	9
17	A survey of fault prediction and location methods in electrical energy distribution networks. <i>Measurement: Journal of the International Measurement Confederation</i> , 2021, 184, 109947.	5.0	47
18	Linear and Nonlinear Fault Location in Smart Distribution Network Under Line Parameter Uncertainty. <i>IEEE Transactions on Industrial Informatics</i> , 2021, 17, 8308-8318.	11.3	25

#	ARTICLE	IF	CITATIONS
19	A Parameter-Free Approach for Fault Section Detection on Distribution Networks Employing Gated Recurrent Unit. <i>Energies</i> , 2021, 14, 6361.	3.1	7
20	A Multi-Objective Constrained Robust Optimization Based on NSGA-II Algorithm. , 2021, , .		0
21	Fault Area Location in Electrical Distribution System Using Smart Meter Data. , 2021, , .		1
22	A stochastic programming model for the optimal operation of unbalanced three-phase islanded microgrids. <i>International Journal of Electrical Power and Energy Systems</i> , 2020, 115, 105446.	5.5	28
23	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
24	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
25	Fault detection in ventilation units using dynamic energy performance models. <i>Journal of Building Engineering</i> , 2020, 32, 101635.	3.4	6
26	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
27	A New Model Predictive Control Based Method for Control of Grid Connected Inverter Using Predictive Functional Control. , 2020, , .		5
28	A Mixed of Nonlinear Loads and their Effects on the Electrical Energy Billing. , 2020, , .		0
29	Wind Power Forecasting Using Machine Learning: State of the Art, Trends and Challenges. , 2020, , .		31
30	Harmonic Interaction among Electronic Loads and Its Effects on the Electrical Quantities and Billing: Case Study with Lighting Devices. , 2020, , .		0
31	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
32	Transient Analysis of Tidal Power Plant Connected to Network When Faced with Symmetrical and Unsymmetrical Faults. , 2020, , .		0
33	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
34	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
35	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
36	Optimal energy management in the smart microgrid considering the electrical energy storage system and the demand-side energy efficiency program. <i>Journal of Energy Storage</i> , 2020, 28, 101229.	8.1	47

#	ARTICLE	IF	CITATIONS
37	Predictive Maintenance for Pump Systems and Thermal Power Plants: State-of-the-Art Review, Trends and Challenges. <i>Sensors</i> , 2020, 20, 2425.	3.8	40
38	A Novel Fault Location Algorithm for Electrical Networks Considering Distributed Line Model and Distributed Generation Resources. , 2020, , .		2
39	Optimal sensors and actuators placement for large-scale switched systems. <i>International Journal of Dynamics and Control</i> , 2019, 7, 147-156.	2.5	1
40	Fault Isolability Analysis and Optimal Sensor Placement for Fault Diagnosis in Smart Buildings. <i>Energies</i> , 2019, 12, 1601.	3.1	11
41	Real Fault Section Estimation in Electrical Distribution Networks Based on the Fault Frequency Component Analysis. <i>Energies</i> , 2019, 12, 1145.	3.1	16
42	A stair-step probabilistic approach for automatic anomaly detection in building ventilation system operation. <i>Building and Environment</i> , 2019, 157, 165-171.	6.9	14
43	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
44	The Optimal Energy Management in the Smart Microgrid Considering Demand Response Program and Energy Storage. , 2019, , .		4
45	Harmonic Interaction Effects on Power Quality and Electrical Energy Measurement System. , 2019, , .		0
46	Consensus-Based Method for Anomaly Detection in VAV Units. <i>Energies</i> , 2019, 12, 468.	3.1	4
47	Optimal trajectory tracking solution: Fractional order viewpoint. <i>Journal of the Franklin Institute</i> , 2019, 356, 1590-1603.	3.4	6
48	A Generalized Model for the Optimal Operation of Microgrids in Grid-Connected and Islanded Droop-Based Mode. <i>IEEE Transactions on Smart Grid</i> , 2019, 10, 5032-5045.	9.0	30
49	Novel real-time model-based fault detection method for automatic identification of abnormal energy performance in building ventilation units. <i>Energy and Buildings</i> , 2019, 183, 238-251.	6.7	30
50	Distributed Strategy for Optimal Dispatch of Unbalanced Three-Phase Islanded Microgrids. <i>IEEE Transactions on Smart Grid</i> , 2019, 10, 3210-3225.	9.0	35
51	Impedance-Based Fault Location Method for Four-Wire Power Distribution Networks. <i>IEEE Access</i> , 2018, 6, 1342-1349.	4.2	37
52	A New Matching Algorithm for Fault Section Estimation in Power Distribution Networks. , 2018, , .		2
53	Fault Detection and Diagnostics in Ventilation Units Using Linear Regression Virtual Sensors. , 2018, , .		2
54	A Holistic Fuzzy Measure for Load Priority in Under Frequency Load Shedding Schemes. , 2018, , .		1

#	ARTICLE	IF	CITATIONS
55	Adverse condition and critical event prediction in commercial buildings: Danish case study. Energy Informatics, 2018, 1, .	2.3	1
56	A Method for Fault Detection and Diagnostics in Ventilation Units Using Virtual Sensors. Sensors, 2018, 18, 3931.	3.8	38
57	Protection coordination assessment and improvement of electrical network of an industrial complex in connection to power grid: An experience report. , 2018, , .		3
58	Distribution network fault section identification and fault location using artificial neural network. , 2018, , .		26
59	Fault Location in Double Circuit Medium Power Distribution Networks Using an Impedance-Based Method. Applied Sciences (Switzerland), 2018, 8, 1034.	2.5	23
60	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
61	Frequency Interval Cross Gramians for Linear and Bilinear Systems. Asian Journal of Control, 2017, 19, 22-34.	3.0	17
62	A new fault-location method for HVDC transmission-line based on DC components of voltage and current under line parameter uncertainty. Electrical Engineering, 2017, 99, 573-582.	2.0	9
63	Adaptive Control for Revolute Joints Robot Manipulator with Uncertain/Unknown Dynamic Parameters and in Presence of Disturbance in Control Input. , 2017, , .		2
64	A new data-driven controllability measure with application in intelligent buildings. Energy and Buildings, 2017, 138, 526-529.	6.7	11
65	Optimal sensors and actuators placement for large-scale unstable systems via restricted genetic algorithm. Engineering Computations, 2017, 34, 2582-2597.	1.4	4
66	On the existence of frequency-interval gramians for bilinear systems. European Journal of Control, 2017, 38, 47-51.	2.6	2
67	A Practical Approach to Validation of Buildingsâ€™ Sensor Data: A Commissioning Experience Report. , 2017, , .		6
68	Distributed consensus-based economic dispatch considering grid operation. , 2017, , .		2
69	Towards systematic reliability modeling of smart buildings. , 2017, , .		1
70	Generalization of the $\hat{\lambda}$ -method for decentralized economic dispatch considering reactive resources. , 2017, , .		0
71	Reliability modeling of cyber-physical systems: A holistic overview and challenges. , 2017, , .		14
72	Adverse Condition and Critical Event Prediction in Cranfield Multiphase Flow Facility. , 2017, , .		2

#	ARTICLE	IF	CITATIONS
73	A new computationally efficient algorithm for optimal sensors and actuators placement for large-scale systems. , 2017, , .		2
74	Fault Recoverability Analysis via Cross-Gramian. Lecture Notes in Mechanical Engineering, 2017, , 377-386.	0.4	0
75	Reliability of cyber physical systems with focus on building management systems. , 2016, , .		18
76	Fault detection and diagnosis for smart buildings: State of the art, trends and challenges. , 2016, , .		35
77	A new method presentation for locating fault in power distribution networks. , 2016, , .		2
78	Frequency interval balanced truncation of discrete-time bilinear systems. Cogent Engineering, 2016, 3, 1203082.	2.2	8
79	A brief note on the generalized singular perturbation approximation. , 2015, , .		0
80	Challenge. , 2015, , .		13
81	Integration of DG sources for compensation of unbalanced loads in the power grid. , 2015, , .		2
82	Multifunctional control of an NPC converter for the grid integration of renewable energy sources. , 2015, , .		4
83	Control configuration selection for multivariable switched dynamical systems and processes. , 2015, , .		1
84	Control configuration selection for bilinear systems via generalised Hankel interaction index array. International Journal of Control, 2015, 88, 30-37.	1.9	33
85	Commercial Buildings Energy Performance within Context - Occupants in Spotlight. , 2015, , .		13
86	Generalized Hankel Interaction Index Array for control structure selection for discrete-time MIMO bilinear processes and plants. , 2014, , .		4
87	Dynamic Modeling of a Reformed Methanol Fuel Cell System Using Empirical Data and Adaptive Neuro-Fuzzy Inference System Models. Journal of Fuel Cell Science and Technology, 2014, 11, .	0.8	7
88	Lyapunov stability for continuous-time multidimensional nonlinear systems. Nonlinear Dynamics, 2014, 75, 717-724.	5.2	24
89	Time-interval model reduction of bilinear systems. International Journal of Control, 2014, 87, 1487-1495.	1.9	31
90	Frequency-Interval Model Reduction of Bilinear Systems. IEEE Transactions on Automatic Control, 2014, 59, 1948-1953.	5.7	36

#	ARTICLE	IF	CITATIONS
91	Frequency-interval control reconfigurability for automated processes. Natural Hazards, 2014, 72, 1021-1027.	3.4	2
92	Control configuration selection for linear stochastic systems. Journal of Process Control, 2014, 24, 146-151.	3.3	11
93	Stability analysis and output feedback control for a class of switched nonlinear systems. International Journal of Modelling, Identification and Control, 2014, 22, 328.	0.2	2
94	An interaction measure for control configuration selection for multivariable bilinear systems. Nonlinear Dynamics, 2013, 72, 165-174.	5.2	17
95	Control reconfigurability of bilinear systems. Journal of Mechanical Science and Technology, 2013, 27, 1117-1123.	1.5	8
96	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
97	Frequency-interval interaction measure for control configuration selection for multivariable processes. , 2013, , .		3
98	Frequency-interval control configuration selection for multivariable bilinear systems. Journal of Process Control, 2013, 23, 894-904.	3.3	16
99	Gas composition modeling in a reformed Methanol Fuel Cell system using adaptive Neuro-Fuzzy Inference Systems. International Journal of Hydrogen Energy, 2013, 38, 10577-10584.	7.1	13
100	Optimal sensor and actuator location for unstable systems. JVC/Journal of Vibration and Control, 2013, 19, 1915-1920.	2.6	31
101	Lyapunov stability for continuous-time 2D nonlinear systems. , 2013, , .		3
102	Generalized time-limited balanced reduction method. , 2013, , .		5
103	Generalized frequency-interval balanced model reduction method. , 2013, , .		1
104	Dynamic Modeling of a Reformed Methanol Fuel Cell System Using Empirical Data and Adaptive Neuro-Fuzzy Inference System Models. , 2013, , .		1
105	Generalized cross-gramian for linear systems. , 2012, , .		9
106	Control configuration selection for multivariable descriptor systems. , 2012, , .		10
107	Relative error model reduction via time-weighted balanced stochastic singular perturbation. JVC/Journal of Vibration and Control, 2012, 18, 2006-2016.	2.6	2
108	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

#	ARTICLE	IF	CITATIONS
109	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
110	H 2 optimal filtering for bilinear systems. Nonlinear Dynamics, 2012, 70, 999-1005.	5.2	4
111	Control Configuration Selection for Multivariable Nonlinear Systems. Industrial & Engineering Chemistry Research, 2012, 51, 8583-8587.	3.7	22
112	Time-weighted balanced stochastic model reduction. , 2011, , .		1
113	Control reconfigurability of bilinear hydraulic drive systems. , 2011, , .		3
114	Generalised gramian framework for model/controller order reduction of switched systems. International Journal of Systems Science, 2011, 42, 1277-1291.	5.5	25
115	Stability analysis for a class of discrete-time two-dimensional nonlinear systems. Multidimensional Systems and Signal Processing, 2010, 21, 293-299.	2.6	22
116	Stability analysis for class of switched nonlinear systems. , 2010, , .		12
117	Generalized gramian framework for model reduction of switched systems. , 2009, , .		3
118	Switched Systems Reduction Framework Based on Convex Combination of Generalized Gramians. Journal of Control Science and Engineering, 2009, 2009, 1-11.	1.0	8
119	Switched controller order reduction. , 2009, , .		0
120	Discussion: "Model Reduction of Large-Scale Discrete Plants With Specified Frequency Domain Balanced Structure" (Zadegan, A., and Zilouchian, A., 2005, ASME J. Dyn. Syst. Meas., Control, 127, pp.)		0
121	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
122	Accuracy and efficiency enhanced non-linear model order reduction. International Journal of Modelling, Identification and Control, 2007, 2, 147.	0.2	10
123	Accuracy and Efficiency Enhancement in Model Order Reduction of Large Circuits. Midwest Symposium on Circuits and Systems, 2006, , .	1.0	0
124	A New Mixed Method for Relative Error Model Order Reduction. Midwest Symposium on Circuits and Systems, 2006, , .	1.0	0
125	A novel enviro-economic three-stage market-based energy management considering energy storage systems and demand response programs for networked smart microgrids. Electrical Engineering, 0, , 1.	2.0	4