

Pravat kumar Rout

List of Publications by Year in descending order

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132
papers

1,977
citations

279798

23
h-index

330143

37
g-index

138
all docs

138
docs citations

138
times ranked

1233
citing authors

#	ARTICLE	IF	CITATIONS
1	Detection and classification of microgrid faults based on HHT and machine learning techniques. IET Generation, Transmission and Distribution, 2018, 12, 388-397.	2.5	172
2	An islanding detection algorithm for distributed generation based on Hilbert-Huang transform and extreme learning machine. Sustainable Energy, Grids and Networks, 2017, 9, 13-26.	3.9	85
3	Distributed generation hybrid AC/DC microgrid protection: A critical review on issues, strategies, and future directions. International Journal of Energy Research, 2020, 44, 3347-3364.	4.5	71
4	Residential Demand Side Management model, optimization and future perspective: A review. Energy Reports, 2022, 8, 3727-3766.	5.1	68
5	Taxonomy of Islanding detection techniques for distributed generation in microgrid. Renewable Energy Focus, 2019, 31, 9-30.	4.5	55
6	The implementation framework of a microgrid: A review. International Journal of Energy Research, 2021, 45, 3523-3547.	4.5	55
7	AC and DC and hybrid control strategies for smart microgrid application: A review. International Transactions on Electrical Energy Systems, 2021, 31, e12683.	1.9	50
8	A comprehensive review of distribution generation integrated DC microgrid protection: issues, strategies, and future direction. International Journal of Energy Research, 2021, 45, 5006-5031.	4.5	50
9	Economic load sharing in a D-STATCOM Integrated Islanded Microgrid based on Fuzzy Logic and Seeker Optimization Approach. Sustainable Cities and Society, 2018, 37, 57-69.	10.4	39
10	A combined mathematical morphology and extreme learning machine techniques based approach to micro-grid protection. Ain Shams Engineering Journal, 2019, 10, 307-318.	6.1	37
11	A Fast Gauss-Newton Algorithm for Islanding Detection in Distributed Generation. IEEE Transactions on Smart Grid, 2012, 3, 1181-1191.	9.0	36
12	Seeker optimization approach to dynamic PI based virtual impedance drooping for economic load sharing between PV and SOFC in an islanded microgrid. Sustainable Cities and Society, 2018, 37, 550-562.	10.4	33
13	Artificial Neural Network-Based PI-Controlled Reduced Switch Cascaded Multilevel Inverter Operation in Wind Energy Conversion System with Solid-State Transformer. Iranian Journal of Science and Technology - Transactions of Electrical Engineering, 2019, 43, 1053-1073.	2.3	33
14	Repetitive control and cascaded multilevel inverter with integrated hybrid active filter capability for wind energy conversion system. Engineering Science and Technology, an International Journal, 2019, 22, 811-826.	3.2	30
15	State of charge and state of power management among the energy storage systems by the fuzzy tuned dynamic exponent and the dynamic PI controller. Journal of Energy Storage, 2018, 19, 348-363.	8.1	29
16	Fast discrete s-transform and extreme learning machine based approach to islanding detection in grid-connected distributed generation. Energy Systems, 2019, 10, 757-789.	3.0	29
17	Structural and electrical characteristics of gallium modified PZT ceramics. Processing and Application of Ceramics, 2017, 11, 171-176.	0.8	28
18	Modified wavelet transform based fault analysis in a solar photovoltaic system. Optik, 2018, 168, 754-763.	2.9	27

#	ARTICLE	IF	CITATIONS
19	A new topology with the repetitive controller of a reduced switch seven-level cascaded inverter for a solar PV-battery based microgrid. <i>Engineering Science and Technology, an International Journal</i> , 2018, 21, 639-653.	3.2	27
20	Optimal H<SUB align="right">&infin; insulin injection control for blood glucose regulation in IDDM patient using physiological model. <i>International Journal of Automation and Control</i> , 2014, 8, 309.	0.5	26
21	Backstepping Sliding Mode Gaussian Insulin Injection Control for Blood Glucose Regulation in Type I Diabetes Patient. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME</i> , 2018, 140, .	1.6	26
22	An automatic insulin infusion system based on LQG control technique. <i>International Journal of Biomedical Engineering and Technology</i> , 2015, 17, 252.	0.2	25
23	Autonomous microgrid operation subsequent to an anti-islanding scheme. <i>Sustainable Cities and Society</i> , 2018, 39, 430-448.	10.4	25
24	A Universal High Impedance Fault Detection Technique for Distribution System Using S-Transform and Pattern Recognition. <i>Technology and Economics of Smart Grids and Sustainable Energy</i> , 2016, 1, 1.	2.6	24
25	Adaptive continuousâ€time model predictive controller for implantable insulin delivery system in Type I diabetic patient. <i>Optimal Control Applications and Methods</i> , 2017, 38, 184-204.	2.1	24
26	Backstepping Model Predictive Controller for Blood Glucose Regulation in Type-I Diabetes Patient. <i>IETE Journal of Research</i> , 2020, 66, 326-340.	2.6	24
27	A novel control approach based on hybrid Fuzzy Logic and Seeker Optimization for optimal energy management between micro-sources and supercapacitor in an islanded Microgrid. <i>Journal of King Saud University, Engineering Sciences</i> , 2020, 32, 27-41.	2.0	23
28	Robust control approach for the integration of DC-grid based wind energy conversion system. <i>IET Energy Systems Integration</i> , 2020, 2, 215-225.	1.8	23
29	Application of mathematical morphology for power quality improvement in microgrid. <i>International Transactions on Electrical Energy Systems</i> , 2020, 30, e12329.	1.9	23
30	Structural and electrical characteristics of barium modified bismuth-sodium titanate (Bi _{0.49} Na _{0.49} Ba _{0.02})TiO ₃ . <i>Journal of Materials Science: Materials in Electronics</i> , 2018, 29, 1463-1472.	2.2	22
31	Review of distributed generator integrated <scp>AC</scp> microgrid protection: issues, strategies, and future trends. <i>International Journal of Energy Research</i> , 2021, 45, 14117-14144.	4.5	22
32	Load shedding strategy coordinated with storage device and D-STATCOM to enhance the microgrid stability. <i>Protection and Control of Modern Power Systems</i> , 2019, 4, .	7.5	21
33	A novel control strategy based on hybrid instantaneous theory decoupled approach for PQ improvement in PV systems with energy storage devices and cascaded multi-level inverter. <i>Sadhana - Academy Proceedings in Engineering Sciences</i> , 2020, 45, 1.	1.3	21
34	Robust dynamic fuzzy-based enhanced VPD/FQB controller for load sharing in microgrid with distributed generators. <i>Electrical Engineering</i> , 2018, 100, 2457-2472.	2.0	20
35	Integration of wind power generation through an enhanced instantaneous power theory. <i>IET Energy Systems Integration</i> , 2020, 2, 196-206.	1.8	20
36	Optimal Placement and Sizing of Distributed Generation in Radial Distribution System Using Differential Evolution Algorithm. <i>Lecture Notes in Computer Science</i> , 2012, , 133-142.	1.3	19

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37	Detection of Islanding and Fault Disturbances in Microgrid using Wavelet Packet Transform. IETE Journal of Research, 2019, 65, 796-809.	2.6	19
38	A novel sensorless current shaping control approach for SVPWM inverter with voltage disturbance rejection in a dc grid-based wind power generation system. Wind Energy, 2020, 23, 986-1005.	4.2	19
39	Adaptive sliding mode Gaussian controller for artificial pancreas in T1DM patient. Journal of Process Control, 2017, 59, 13-27.	3.3	18
40	Backstepping Linear Quadratic Gaussian Controller Design for Balancing an Inverted Pendulum. IETE Journal of Research, 2022, 68, 150-164.	2.6	18
41	A conceptual review on transformation of microgrid to virtual power plant: Issues, modeling, solutions, and future prospects. International Journal of Energy Research, 2022, 46, 7021-7054.	4.5	18
42	A novel centralized energy management approach for power quality improvement. International Transactions on Electrical Energy Systems, 2021, 31, e12582.	1.9	17
43	Design of artificial pancreas based on the SMGC and self-tuning PI control in type-I diabetic patient. International Journal of Biomedical Engineering and Technology, 2020, 32, 1.	0.2	17
44	Hybrid islanding detection with optimum feature selection and minimum NDZ. International Transactions on Electrical Energy Systems, 2018, 28, e2602.	1.9	16
45	Elitism based Multi-Objective Differential Evolution for feature selection: A filter approach with an efficient redundancy measure. Journal of King Saud University - Computer and Information Sciences, 2020, 32, 174-187.	3.9	15
46	Robust control approach for stability and power quality improvement in electric car. International Transactions on Electrical Energy Systems, 2020, 30, e12628.	1.9	14
47	Design of backstepping LQG controller for blood glucose regulation in type I diabetes patient. International Journal of Automation and Control, 2020, 14, 445.	0.5	14
48	Optimal feature selection for islanding detection in distributed generation. IET Smart Grid, 2018, 1, 85-95.	2.2	13
49	State of charge and state of power management of the hybrid energy storage system in an architecture of microgrid. Journal of Renewable and Sustainable Energy, 2019, 11, .	2.0	13
50	State of charge and state of power management in a hybrid energy storage system by the self-tuned dynamic exponent and the fuzzy-based dynamic PI controller. International Transactions on Electrical Energy Systems, 2019, 29, e2848.	1.9	13
51	Capacitive and resistive characteristics of gallium modified lead zirconate titanate. Journal of Materials Science: Materials in Electronics, 2017, 28, 12048-12055.	2.2	12
52	Studies of structural, dielectric and electrical characteristics of BaTiO ₃ -BiFeO ₃ -CaSnO ₃ electronic system. Journal of Materials Science: Materials in Electronics, 2018, 29, 7876-7884.	2.2	12
53	Elitism-based multi-objective differential evolution with extreme learning machine for feature selection: a novel searching technique. Connection Science, 2018, 30, 362-387.	3.0	12
54	Loss of main detection in distribution generation system based on hybrid signal processing and machine learning technique. International Transactions on Electrical Energy Systems, 2019, 29, e2676.	1.9	12

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55	Differential evolution with dynamic control factors for parameter estimation of photovoltaic models. <i>Journal of Computational Electronics</i> , 2021, 20, 330-343.	2.5	12
56	Frequency superimposed energy bifurcation technology for a hybrid microgrid. <i>Sustainable Cities and Society</i> , 2019, 45, 607-618.	10.4	11
57	Power Quality Events Recognition Using S-Transform and Wild Goat Optimization-Based Extreme Learning Machine. <i>Arabian Journal for Science and Engineering</i> , 2020, 45, 1855-1870.	3.0	11
58	Dual-stage cascaded control to resynchronise an isolated microgrid with the utility. <i>IET Renewable Power Generation</i> , 2020, 14, 871-880.	3.1	11
59	Robust power balancing scheme for the grid-forming microgrid. <i>IET Renewable Power Generation</i> , 2020, 14, 154-163.	3.1	11
60	Hybrid generalised power theory for power quality enhancement. <i>IET Energy Systems Integration</i> , 2020, 2, 404-414.	1.8	11
61	Study the performance of S-transform based extreme learning Machine for islanding detection in distributed generation. , 2016, , .		10
62	Frequency superimposed robust coordinated control in a hybrid microgrid. <i>Sustainable Cities and Society</i> , 2019, 51, 101791.	10.4	10
63	Non-linear control and stabilisation of VSC-HVDC transmission system based on Type-2 fuzzy sliding mode control. <i>International Journal of Automation and Control</i> , 2013, 7, 1.	0.5	9
64	Comparative study of M-FIS FLC and modified P&O MPPT techniques under partial shading and variable load conditions. , 2015, , .		9
65	Multi-objective clustering: a kernel based approach using Differential Evolution. <i>Connection Science</i> , 2019, 31, 294-321.	3.0	9
66	Robust retinal optic disc and optic cup segmentation via stationary wavelet transform and maximum vessel pixel sum. <i>IET Image Processing</i> , 2020, 14, 592-602.	2.5	9
67	Robust Control and Inverter Approach for Power Quality Improvement. <i>Lecture Notes in Networks and Systems</i> , 2021, , 143-156.	0.7	9
68	An optimal extreme learning-based classification method for power quality events using fractional Fourier transform. <i>Neural Computing and Applications</i> , 2021, 33, 4979-4995.	5.6	9
69	Advanced Speed¤t control approach for dynamic electric car modelling. <i>IET Electrical Systems in Transportation</i> , 2021, 11, 200-217.	2.4	9
70	Execution of robust dynamic sliding mode control for smart photovoltaic application. <i>Sustainable Energy Technologies and Assessments</i> , 2021, 45, 101150.	2.7	9
71	Complex dual-tree wavelet transform and unified power management based control architecture for hybrid wind power system. <i>Sustainable Energy Technologies and Assessments</i> , 2021, 47, 101560.	2.7	9
72	Time-Frequency Analysis based Approach to Islanding Detection in Micro-grid System. <i>International Review of Electrical Engineering</i> , 2016, 11, 116.	0.2	9

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73	Power quality and stability assessment of hybrid microgrid and electric vehicle through a novel transformation technique. Sustainable Energy Technologies and Assessments, 2022, 51, 101927.	2.7	9
74	A comprehensive review on modeling, control, protection and future prospects of Microgrid. , 2015, , .		8
75	Demand Side Management by PV Integration to Micro-grid Power Distribution System: A Review and Case Study Analysis. Lecture Notes in Networks and Systems, 2021, , 417-432.	0.7	8
76	High impedance fault detection in radial distribution system using wavelet transform. , 2015, , .		7
77	Optimal control of islanded microgrid with adaptive fuzzy logic & PI controller using HBCC under various voltage & load variation. , 2016, , .		7
78	Establishment of an auxiliary virtual damping loop for the superior inertial response in the microgrid. IET Smart Grid, 2020, 3, 42-50.	2.2	7
79	Studies of dielectric and electrical transport characteristics of BaTiO ₃ -BiFeO ₃ -CaSnO ₃ ternary system. Processing and Application of Ceramics, 2018, 12, 164-170.	0.8	7
80	Optimal short-term hydrothermal generation scheduling using modified seeker optimisation algorithm. International Journal of Modelling, Identification and Control, 2012, 15, 250.	0.2	6
81	Feature extraction and power quality event classification using Curvelet transform and optimized extreme learning machine. Electrical Engineering, 2021, 103, 2431-2446.	2.0	6
82	Seamless transition of microgrid between islanded and grid-connected mode of operation. IET Energy Systems Integration, 2021, 3, 60-72.	1.8	6
83	Detection and classification of islanding by using variational mode decomposition and adaptive multi-kernel based extreme learning machine technique. Sustainable Energy, Grids and Networks, 2022, 30, 100668.	3.9	6
84	Control of Parallel AC Voltage Source Converter High-Voltage DC System Using an Adaptive PI Evolutionary-Based Controller. Arabian Journal for Science and Engineering, 2021, 46, 931-945.	3.0	5
85	Residential Sector Demand Side Management: A Review. , 2021, , .		5
86	Vector Measurement-Based Virtual Inertia Emulation Technique for Real-Time Transient Frequency Regulation in Microgrids. IEEE Transactions on Power Electronics, 2021, 36, 6685-6698.	7.9	5
87	Experimental prototyping of synthetic inertial system for the improvement in frequency deflection. IET Generation, Transmission and Distribution, 2020, 14, 3846-3855.	2.5	5
88	A modified differential evolution-based fuzzy multi-objective approach for clustering. International Journal of Management and Decision Making, 2017, 16, 24.	0.1	4
89	A new self-adjusting PI controller for power control in a wind turbine generator. World Journal of Engineering, 2018, 15, 362-372.	1.6	4
90	Small signal stability analysis and optimised control of a PMSG-based wind turbine using differential evolution. International Journal of Modelling, Identification and Control, 2018, 29, 64.	0.2	4

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91	Optimal performance of a self-healing microgrid. IET Smart Grid, 2020, 3, 51-59.	2.2	4
92	An Optimized Machine Learning-Based Time-Frequency Transform for Protection of Distribution Generation Integrated Microgrid System. Lecture Notes in Networks and Systems, 2021, , 385-399.	0.7	4
93	Advanced Control Technique based Neutral Clamped Inverter Operation. , 2021, , .		4
94	Three phase grid connected photovoltaic generation system evaluation and comparison using Perturb (P) and Observe (O) maximum power point tracking technique. , 2015, , .		3
95	Study of performance of pattern recognition techniques based on wavelet features for Islanding detection in distributed generation. , 2016, , .		3
96	A contingent performance analysis of M-FLC using HBCC in an islanded microgrid. , 2016, , .		3
97	A cross mutation-based differential evolution for data clustering. International Journal of Data Mining, Modelling and Management, 2017, 9, 17.	0.1	3
98	Dynamic stability improvement for VSC-HVDC-based inter connected power system using modified sliding mode controller. International Journal of Automation and Control, 2017, 11, 188.	0.5	3
99	Automatic clustering by elitism-based multi-objective differential evolution. International Journal of Management and Decision Making, 2018, 17, 50.	0.1	3
100	A Modified Least Mean Square Technique for Harmonic Elimination. , 2021, , .		3
101	Execution of advanced solar shunt active filter for renewable power application. Energy Conversion and Economics, 2021, 2, 100-118.	3.2	3
102	Improving the Performance of AVR System Using Grasshopper Evolutionary Technique. Lecture Notes in Networks and Systems, 2021, , 401-416.	0.7	3
103	A Genetic Algorithm-Based Demand Side Management Program for Implementation of Virtual Power Plant Integrating Distributed Energy Resources. Lecture Notes in Electrical Engineering, 2022, , 469-481.	0.4	3
104	An Advanced Fault Detection Technique for DG Integrated Microgrid Using Fast Fourier Discrete Orthonormal Stockwell Transform-Based Hybrid Optimized Kernel Extreme Learning Machine. Iranian Journal of Science and Technology - Transactions of Electrical Engineering, 2022, 46, 329-351.	2.3	3
105	Adaptive particle swarm optimisation of unified power flow controller for synchronous generator stabilisation. International Journal of Automation and Control, 2009, 3, 91.	0.5	2
106	A Function Based Fuzzy Controller for VSC-HVDC System to Enhance Transient Stability of AC/DC Power System. Lecture Notes in Computer Science, 2011, , 441-451.	1.3	2
107	A comparative analysis of the performance of a grid connected permanent magnet synchronous generator with PI and DE optimized PI controller. , 2015, , .		2
108	Design of Takagi-Sugeno fuzzy controller for VSC-HVDC parallel AC transmission system using differential evolution algorithm. International Journal of Computer Aided Engineering and Technology, 2016, 8, 277.	0.2	2

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109	Multi-objective artificial bee colony-based optimal PMU placement with considering zero injection bus in power network. International Journal of Computer Aided Engineering and Technology, 2017, 9, 102.	0.2	2
110	A comprehensive micro-grid fault protection scheme based on S-transform and machine learning techniques. International Journal of Advanced Mechatronic Systems, 2017, 7, 274.	0.2	2
111	An auxiliary control aided modified sliding mode control for a PMSC based wind energy conversion system. World Journal of Engineering, 2019, 16, 725-736.	1.6	2
112	Mathematical Morphology-Based Artificial Technique for Renewable Power Application. Computers, Materials and Continua, 2021, 69, 1851-1875.	1.9	2
113	Advanced Reactive Power Control Technique for Wind Power Application. , 2021, , .		2
114	Short-term hydro thermal generation scheduling using modified invasive weed optimisation algorithm. International Journal of Power and Energy Conversion, 2011, 2, 307.	0.3	1
115	Optimal reactive power dispatch based on the improved seeker optimisation algorithm and statistical analysis. International Journal of Power and Energy Conversion, 2014, 5, 250.	0.3	1
116	Modelling and simulation of fuzzy-based MPPT control of grid connected PV system under variable load and irradiance. International Journal of Intelligent Systems Technologies and Applications, 2019, 18, 531.	0.2	1
117	Fuzzy multi-objective approach-based small signal stability analysis and optimal control of a PMSC-based wind turbine. International Journal of Computer Aided Engineering and Technology, 2020, 12, 513.	0.2	1
118	Design and analysis of automatic generation control of two area power system based on modified differential evolution algorithm. , 2020, , .		1
119	Inter-area and Intra-area Oscillation Damping of Power System Stabilizer Design Using Modified Invasive Weed Optimization. Lecture Notes in Networks and Systems, 2020, , 347-359.	0.7	1
120	Design and Analysis of Memductor Based PID Controller for AVR. Lecture Notes in Electrical Engineering, 2022, , 513-526.	0.4	1
121	An integrated H-infinity optimised fuzzy controller for UPFC in multimachine power systems. International Journal of Power and Energy Conversion, 2010, 2, 126.	0.3	0
122	Dynamic modelling and small signal stability analysis of voltage source converter-based HVDC system. International Journal of Power and Energy Conversion, 2016, 7, 203.	0.3	0
123	Dynamic Stability Improvement of PSS and STATCOM Based Power System Using Cuckoo Search Based PI Controller. , 2016, , .		0
124	A Novel Active Anti-islanding Scheme for Inverter-Based Distributed Generation. , 2018, , .		0
125	Auxiliary Dynamic Damping Loop in the Microgrid for Enhancing Frequency Recovery Rate. Lecture Notes in Networks and Systems, 2021, , 69-79.	0.7	0
126	Execution of Adaptive Transverse Filter for Power Quality Improvement. Lecture Notes in Networks and Systems, 2021, , 409-421.	0.7	0

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127	Differential Evolution with Dual-mode mutation for parameter estimation of different photovoltaic models. , 2021, , .		0
128	Design and Analysis of Grasshopper Evolutionary Technique Tuned Fractional-Order Proportional Integral Derivative for Magnetic Levitation System. Lecture Notes in Networks and Systems, 2021, , 459-472.	0.7	0
129	Virtual Inertia Control Strategy in Microgrid Stability Control: A Conceptual Synthesis and Discussion. Lecture Notes in Networks and Systems, 2021, , 97-109.	0.7	0
130	A modified sliding mode controller for a permanent magnet synchronous generator-based wind turbine system. International Journal of Systems, Control and Communications, 2021, 12, 192.	0.3	0
131	Filterless power allocation and regulation scheme with the prototypic implementation. IET Renewable Power Generation, 2020, 14, 3149-3159.	3.1	0
132	Neutral Clamped Three-level Inverter based Fractional Order Filter Design for Power Quality Advancement. , 2021, , .		0