

Dwarkadas Pralhaddas Kothari

List of Publications by Year in descending order

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109
papers

6,986
citations

134610

34
h-index

66518

82
g-index

109
all docs

109
docs citations

109
times ranked

5182
citing authors

#	ARTICLE	IF	CITATIONS
1	A review on methods of finding losses and cooling methods to increase efficiency of electric machines. Ain Shams Engineering Journal, 2021, 12, 497-505.	3.5	38
2	Crisscross differential evolution algorithm for constrained hydrothermal scheduling. Applied Soft Computing Journal, 2020, 93, 106393.	4.1	22
3	A Single Phase Grid Connected PV System working in Different Modes. Engineering, Technology & Applied Science Research, 2020, 10, 6374-6379.	0.8	5
4	IoT Based Approach in a Power System Network for Optimizing Distributed Generation Parameters. CMES - Computer Modeling in Engineering and Sciences, 2019, 119, 541-558.	0.8	9
5	Implementation of Optogenetics Technique for Neuron Photostimulation: A Physical Approach. , 2019, , 311-324.		0
6	Multiobjective thermal power load dispatch using adaptive predator-prey optimization. Applied Soft Computing Journal, 2018, 66, 370-383.	4.1	15
7	Non-interactive approach to solve multi-objective thermal power dispatch problem using composite search algorithm. Applied Soft Computing Journal, 2018, 65, 644-658.	4.1	10
8	Multi-objective thermal power load dispatch using chaotic differential evolutionary algorithm and Powell's method. Soft Computing, 2018, 22, 2159-2174.	2.1	10
9	A Comparative Analysis for Selection of Appropriate Mother Wavelet for Detection of Stationary Disturbances. Journal of the Institution of Engineers (India): Series B, 2017, 98, 533-540.	1.3	4
10	Surrogate worth trade-off method for multi-objective thermal power load dispatch. Energy, 2017, 138, 1112-1123.	4.5	9
11	Approach of hybrid PBIL control in distributed generation parameters for IEEE and real time Indian utility system. IET Renewable Power Generation, 2017, 11, 255-263.	1.7	16
12	Potential of Livestock Generated Biomass: Untapped Energy Source in India. Energies, 2017, 10, 847.	1.6	33
13	Current developments in renewable energy resources-based hybrid energy system: a review. International Journal of Energy Technology and Policy, 2016, 12, 333.	0.1	0
14	A solution to unit commitment problem using fire works algorithm. International Journal of Electrical Power and Energy Systems, 2016, 77, 221-227.	3.3	25
15	Effective grid interfaced renewable sources with power quality improvement using dynamic active power filter. International Journal of Electrical Power and Energy Systems, 2016, 82, 150-160.	3.3	31
16	Synergic predator-prey optimization for economic thermal power dispatch problem. Applied Soft Computing Journal, 2016, 43, 298-311.	4.1	56
17	Hybrid optimization implemented for distributed generation parameters in a power system network. International Journal of Electrical Power and Energy Systems, 2016, 78, 690-699.	3.3	36
18	Design and simulation of a solar-wind-biogas hybrid system architecture using HOMER in India. International Journal of Ambient Energy, 2016, 37, 184-191.	1.4	47

#	ARTICLE	IF	CITATIONS
19	Congestion management in power systems – A review. International Journal of Electrical Power and Energy Systems, 2015, 70, 83-90.	3.3	179
20	An optimizing pipeline stall reduction algorithm for power and performance on multi-core CPUs. Human-centric Computing and Information Sciences, 2015, 5, .	6.1	29
21	Optimal location and sizing of capacitor placement in radial distribution system using Bacterial Foraging Optimization Algorithm. International Journal of Electrical Power and Energy Systems, 2015, 71, 383-390.	3.3	135
22	Interconnected Distribution Networks for Climate Change Abatement. Research Journal of Applied Sciences, Engineering and Technology, 2014, 7, 240-250.	0.1	5
23	Integration of Distributed Energy Resources. Research Journal of Applied Sciences, Engineering and Technology, 2014, 7, 91-96.	0.1	26
24	A comparative simulation study on the power-performance of multi-core architecture. Journal of Supercomputing, 2014, 70, 465-487.	2.4	5
25	Unit commitment problem solution using invasive weed optimization algorithm. International Journal of Electrical Power and Energy Systems, 2014, 55, 21-28.	3.3	82
26	An analytical study of resource division and its impact on power and performance of multi-core processors. Journal of Supercomputing, 2014, 68, 1265-1279.	2.4	17
27	Comprehensive Study of DSTATCOM Configurations. IEEE Transactions on Industrial Informatics, 2014, 10, 854-870.	7.2	167
28	Simulation of Sensor Fault Diagnosis for Wind Turbine Generators DFIG and PMSM Using Kalman Filter. Energy Procedia, 2014, 54, 494-505.	1.8	25
29	A novel integration technique for optimal network reconfiguration and distributed generation placement in power distribution networks. International Journal of Electrical Power and Energy Systems, 2014, 63, 461-472.	3.3	273
30	LFC of an interconnected power system with multi-source power generation in deregulated power environment. International Journal of Electrical Power and Energy Systems, 2014, 57, 277-286.	3.3	138
31	Fuzzy logic based modeling and estimation of global solar energy using meteorological parameters. Energy, 2014, 70, 685-691.	4.5	69
32	Weight pattern evaluation for multiobjective hydrothermal generation scheduling using hybrid search technique. International Journal of Electrical Power and Energy Systems, 2014, 62, 665-678.	3.3	24
33	Mitigation of SSR by Subsynchronous Current Injection with VSC HVDC. International Journal of Electrical Power and Energy Systems, 2014, 57, 287-297.	3.3	14
34	Scheduling short-term hydrothermal generation using predator prey optimization technique. Applied Soft Computing Journal, 2014, 21, 298-308.	4.1	34
35	Impact of FACTS devices on exercising market power in deregulated electricity market. Frontiers in Energy, 2013, 7, 448-455.	1.2	5
36	A solution to unit commitment problem using invasive weed optimization algorithm. Frontiers in Energy, 2013, 7, 487-494.	1.2	3

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37	Analysis of subsynchronous resonance with generalized unified power flow controller. International Journal of Electrical Power and Energy Systems, 2013, 53, 623-631.	3.3	13
38	A review on market power in deregulated electricity market. International Journal of Electrical Power and Energy Systems, 2013, 48, 139-147.	3.3	106
39	Effective utilization of unified power quality conditioner for interconnecting PV modules with grid using power angle control method. International Journal of Electrical Power and Energy Systems, 2013, 48, 131-138.	3.3	56
40	A solution to the unit commitment problem—a review. Frontiers in Energy, 2013, 7, 223-236.	1.2	148
41	Unit commitment using dynamic programming—an exhaustive working of both classical and stochastic approach. Frontiers in Energy, 2013, 7, 333-341.	1.2	5
42	Renewable Energy Technologies for Cooking: Transforming Rural Lives. IEEE Technology and Society Magazine, 2013, 32, 65-72.	0.6	3
43	Reliability enhancement of a radial distribution system using coordinated aggregation based particle swarm optimization considering customer and energy based indices. Applied Soft Computing Journal, 2012, 12, 3325-3331.	4.1	10
44	Load frequency control of a realistic power system with multi-source power generation. International Journal of Electrical Power and Energy Systems, 2012, 42, 426-433.	3.3	282
45	Generalized Neural Network Approach for Global Solar Energy Estimation in India. IEEE Transactions on Sustainable Energy, 2012, 3, 576-584.	5.9	41
46	Studies on the impact of capacitor bank switching on grid connected transformers. International Journal of Electrical Power and Energy Systems, 2012, 43, 126-130.	3.3	6
47	Multiobjective fixed head hydrothermal scheduling using integrated predator-prey optimization and Powell search method. Energy, 2012, 47, 237-252.	4.5	62
48	A Multivariate Adaptive Regression Spline Approach for Prediction of Maximum Shear Modulus and Minimum Damping Ratio. Engineering Journal, 2012, 16, 69-78.	0.5	11
49	A Genetic Algorithm Based Multi Objective Service Restoration in Distribution Systems. Journal of Computer Science, 2011, 7, 448-453.	0.5	9
50	Implementation of Neural-Network-Controlled Three-Leg VSC and a Transformer as Three-Phase Four-Wire DSTATCOM. IEEE Transactions on Industry Applications, 2011, 47, 1892-1901.	3.3	88
51	Utilization of a least square support vector machine (LSSVM) for slope stability analysis. Scientia Iranica, 2011, 18, 53-58.	0.3	113
52	Real coded genetic algorithm for stochastic hydrothermal generation scheduling. Journal of Systems Science and Systems Engineering, 2011, 20, 87-109.	0.8	14
53	New control approach for capacitor supported DSTATCOM in three-phase four wire distribution system under non-ideal supply voltage conditions based on synchronous reference frame theory. International Journal of Electrical Power and Energy Systems, 2011, 33, 1109-1117.	3.3	89
54	Distribution system adequacy assessment accounting customer controlled generator sets. International Journal of Electrical Power and Energy Systems, 2011, 33, 1161-1164.	3.3	5

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55	Transient stability improvement of power system using fuzzy operated steam diversion valve. International Journal of Power and Energy Conversion, 2010, 2, 191.	0.2	1
56	Solution to profit based unit commitment problem using particle swarm optimization. Applied Soft Computing Journal, 2010, 10, 1247-1256.	4.1	60
57	Improved particle swarm optimization applied to reactive power reserve maximization. International Journal of Electrical Power and Energy Systems, 2010, 32, 368-374.	3.3	56
58	Comparison of AI techniques to solve combined economic emission dispatch problem with line flow constraints. International Journal of Electrical Power and Energy Systems, 2010, 32, 592-598.	3.3	60
59	Loadability margin enhancement using co-ordinated aggregation based particle swarm optimization (CAPSO). International Journal of Electrical Power and Energy Systems, 2010, 32, 975-984.	3.3	16
60	An approach to mitigate the risk of voltage collapse accounting uncertainties using improved particle swarm optimization. Applied Soft Computing Journal, 2009, 9, 1197-1207.	4.1	4
61	Economic-emission load dispatch using binary successive approximation-based evolutionary search. IET Generation, Transmission and Distribution, 2009, 3, 1-16.	1.4	63
62	Star-hexagon transformer and non-isolated three-leg VSC based three-phase four-wire DSTATCOM. International Journal of Power and Energy Conversion, 2009, 1, 198.	0.2	2
63	Loss Optimization for Voltage Stability Enhancement Incorporating UPFC Using Particle Swarm Optimization. Journal of Electrical Engineering and Technology, 2009, 4, 492-498.	1.2	15
64	A T-Connected Transformer and Three-leg VSC Based DSTATCOM for Power Quality Improvement. IEEE Transactions on Power Electronics, 2008, 23, 2710-2718.	5.4	129
65	Star/Hexagon Transformer Based Three-Phase Four-Wire DSTATCOM for Power Quality Improvement. International Journal of Emerging Electric Power Systems, 2008, 9, .	0.6	11
66	A Novel Modelling Technique for Automatic Load Frequency Control of Small Hydro Power Plants. International Journal of Modelling and Simulation, 2007, 27, 186-192.	2.3	3
67	Control systems for small hydropower plants: a review. International Journal of Energy Technology and Policy, 2007, 5, 97.	0.1	5
68	An AI based Governing Technique for Automatic Control of Small Hydro Power Plants. IETE Journal of Research, 2007, 53, 119-126.	1.8	11
69	Probabilistic assessment and preventive control of voltage security margins using artificial neural network. International Journal of Electrical Power and Energy Systems, 2007, 29, 99-105.	3.3	12
70	Particle swarm optimization for determining shortest distance to voltage collapse. International Journal of Electrical Power and Energy Systems, 2007, 29, 796-802.	3.3	13
71	A Transient Stability Tool Combining the SIME Method with MATLAB and SIMULINK. International Journal of Electrical Engineering and Education, 2006, 43, 119-133.	0.4	12
72	A modified approach to transient stability enhancement with fast valving and braking resistor applications. International Journal of Electrical Power and Energy Systems, 2006, 28, 729-738.	3.3	6

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73	Determination of probabilistic risk of voltage collapse using radial basis function (RBF) network. Electric Power Systems Research, 2006, 76, 426-434.	2.1	21
74	Power quality issues and power electronics. International Journal of Energy Technology and Policy, 2006, 4, 4.	0.1	1
75	Air concentrating nozzles: a promising option for wind turbines. International Journal of Energy Technology and Policy, 2005, 3, 394.	0.1	21
76	Corrective rescheduling for static voltage stability control. International Journal of Electrical Power and Energy Systems, 2005, 27, 3-12.	3.3	17
77	A technique for load-shedding based on voltage stability consideration. International Journal of Electrical Power and Energy Systems, 2005, 27, 506-517.	3.3	31
78	Fuzzy satisfying multi-objective generation scheduling based on simplex weightage pattern search. International Journal of Electrical Power and Energy Systems, 2005, 27, 518-527.	3.3	19
79	New Horizons for Offshore Wind Energy: Shifting Paradigms and Challenges. Energy Sources Part A Recovery, Utilization, and Environmental Effects, 2005, 27, 349-360.	0.5	10
80	Sliding Mode Control of PFC Converter. IETE Journal of Research, 2005, 51, 371-377.	1.8	3
81	Reactive power control of wind-diesel-micro-hydro hybrid power systems using matlab/simulink. International Journal of Global Energy Issues, 2005, 24, 86.	0.2	7
82	A novel technique proposed for automatic control of small hydro power plants. International Journal of Global Energy Issues, 2005, 24, 29.	0.2	10
83	Recent Philosophies of Automatic Generation Control Strategies in Power Systems. IEEE Transactions on Power Systems, 2005, 20, 346-357.	4.6	689
84	Early Development of Modern Vertical and Horizontal Axis Wind Turbines: A Review. Wind Engineering, 2005, 29, 287-299.	1.1	23
85	Modelling and Simulation of Power Factor Corrected AC-DC Converters. International Journal of Electrical Engineering and Education, 2004, 41, 244-264.	0.4	12
86	Indian Scenario of Wind Energy: Problems and Solutions. Energy Sources Part A Recovery, Utilization, and Environmental Effects, 2004, 26, 811-819.	0.5	15
87	A Novel Mathematical Modelling of Induction Generator for Reactive Power Control of Isolated Hybrid Power Systems. International Journal of Modelling and Simulation, 2004, 24, 1-7.	2.3	29
88	An efficient approach for contingency ranking based on voltage stability. International Journal of Electrical Power and Energy Systems, 2004, 26, 143-149.	3.3	3
89	Ready reserve power determination using artificial neural network. International Journal of Electrical Power and Energy Systems, 2004, 26, 473-477.	3.3	0
90	Fuzzy satisfying stochastic multi-objective generation scheduling by weightage pattern search methods. Electric Power Systems Research, 2004, 69, 311-320.	2.1	35

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91	Closure on "Bibliography on the Application of Induction Generators in Nonconventional Energy Systems" IEEE Transactions on Energy Conversion, 2004, 19, 650-651.	3.7	4
92	A Review of Three-Phase Improved Power Quality AC-DC Converters. IEEE Transactions on Industrial Electronics, 2004, 51, 641-660.	5.2	1,101
93	Performance Analysis of a Directly Coupled Photovoltaic Water-Pumping System. IEEE Transactions on Energy Conversion, 2004, 19, 613-618.	3.7	155
94	The power coefficient of windmills in ideal conditions. International Journal of Global Energy Issues, 2004, 21, 236.	0.2	0
95	A review of single-phase improved power quality ac-dc converters. IEEE Transactions on Industrial Electronics, 2003, 50, 962-981.	5.2	1,060
96	Bibliography on the application of induction generators in nonconventional energy systems. IEEE Transactions on Energy Conversion, 2003, 18, 433-439.	3.7	211
97	Vertical Axis Wind Rotor with Concentration by Convergent Nozzles. Wind Engineering, 2003, 27, 555-959.	1.1	21
98	A Novel Regulation Band Approach for Fast Voltage Regulation in Single-Phase PFC Converters. IETE Journal of Research, 2003, 49, 445-451.	1.8	0
99	Discussion of "Assessment of voltage unbalance" [and closure]. IEEE Transactions on Power Delivery, 2002, 17, 1176-1177.	2.9	4
100	MATLAB/Simulink-Based Transient Stability Analysis of a Multimachine Power System. International Journal of Electrical Engineering and Education, 2002, 39, 320-336.	0.4	33
101	On some of the design aspects of wind energy conversion systems. Energy Conversion and Management, 2002, 43, 2175-2187.	4.4	159
102	Multiobjective load dispatch by fuzzy logic based searching weightage pattern. Electric Power Systems Research, 2002, 63, 149-160.	2.1	47
103	Discussion and closure of "Bibliography on the application of probability methods in power system reliability evaluation". IEEE Transactions on Power Systems, 2002, 17, 924.	4.6	2
104	Fuzzy decision making in multiobjective long-term scheduling of hydrothermal system. International Journal of Electrical Power and Energy Systems, 2001, 23, 19-29.	3.3	27
105	Line outage ranking for voltage limit violations with corrective rescheduling avoiding masking. International Journal of Electrical Power and Energy Systems, 2001, 23, 837-846.	3.3	6
106	The surrogate worth trade-off approach for multiobjective thermal power dispatch problem. Electric Power Systems Research, 2000, 56, 103-110.	2.1	52
107	An efficient approach for voltage security analysis and enhancement. International Journal of Electrical Power and Energy Systems, 2000, 22, 483-486.	3.3	4
108	Line switching for alleviating overloads under line outage condition taking bus voltage limits into account. International Journal of Electrical Power and Energy Systems, 2000, 22, 213-221.	3.3	18

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109	Comparative Analysis of Solution Methods to Power Electronic Interface Modeling for Renewable Energy Applications. Advanced Materials Research, 0, 768, 9-15.	0.3	0