

Nikhil Gupta

List of Publications by Year in descending order

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94
papers

1,838
citations

304701

22
h-index

302107

39
g-index

95
all docs

95
docs citations

95
times ranked

1432
citing authors

#	ARTICLE	IF	CITATIONS
1	Distribution network reconfiguration for power quality and reliability improvement using Genetic Algorithms. International Journal of Electrical Power and Energy Systems, 2014, 54, 664-671.	5.5	121
2	Cuckoo Search Optimization Algorithm for Designing of a Multimachine Power System Stabilizer. IEEE Transactions on Industry Applications, 2018, 54, 3056-3065.	4.9	119
3	Improved Elephant Herding Optimization for Multiobjective DER Accommodation in Distribution Systems. IEEE Transactions on Industrial Informatics, 2018, 14, 1029-1039.	11.3	111
4	Simultaneous allocation of distributed energy resource using improved particle swarm optimization. Applied Energy, 2017, 185, 1684-1693.	10.1	104
5	Adapted ant colony optimization for efficient reconfiguration of balanced and unbalanced distribution systems for loss minimization. Swarm and Evolutionary Computation, 2011, 1, 129-137.	8.1	85
6	Modulated particle swarm optimization for economic emission dispatch. International Journal of Electrical Power and Energy Systems, 2015, 73, 80-88.	5.5	81
7	Improved meta-heuristic techniques for simultaneous capacitor and DG allocation in radial distribution networks. International Journal of Electrical Power and Energy Systems, 2015, 73, 653-664.	5.5	73
8	Integration of renewable energy sources in dynamic economic load dispatch problem using an improved fireworks algorithm. IET Renewable Power Generation, 2018, 12, 1004-1011.	3.1	73
9	Multi-objective Taguchi approach for optimal DG integration in distribution systems. IET Generation, Transmission and Distribution, 2017, 11, 2418-2428.	2.5	65
10	A novel codification for meta-heuristic techniques used in distribution network reconfiguration. Electric Power Systems Research, 2011, 81, 1619-1626.	3.6	61
11	Reconfiguration of Distribution Systems for Real Power Loss Minimization Using Adaptive Particle Swarm Optimization. Electric Power Components and Systems, 2011, 39, 317-330.	1.8	50
12	Simultaneous allocation of distributed resources using improved teaching learning based optimization. Energy Conversion and Management, 2015, 103, 387-400.	9.2	45
13	Optimal distributed resource planning for microgrids under uncertain environment. IET Renewable Power Generation, 2018, 12, 244-251.	3.1	36
14	Optimal integration of DERs in coordination with existing VRs in distribution networks. IET Generation, Transmission and Distribution, 2018, 12, 2520-2529.	2.5	36
15	Improved Cat Swarm Optimization for Simultaneous Allocation of DSTATCOM and DGs in Distribution Systems. Journal of Renewable Energy, 2015, 2015, 1-10.	3.6	33
16	Optimal distributed generation allocation in radial distribution systems considering customer-wise dedicated feeders and load patterns. Journal of Modern Power Systems and Clean Energy, 2015, 3, 475-484.	5.4	33
17	Impact assessment of electric vehicle charging/discharging strategies on the operation management of grid accessible and remote microgrids. International Journal of Energy Research, 2019, 43, 9034-9048.	4.5	33
18	A Circuit Theory-Based Loss Allocation Method for Active Distribution Systems. IEEE Transactions on Smart Grid, 2019, 10, 1005-1012.	9.0	32

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19	Multi-area economic dispatch with reserve sharing using dynamically controlled particle swarm optimization. <i>International Journal of Electrical Power and Energy Systems</i> , 2015, 73, 743-756.	5.5	30
20	Multiobjective nested optimization framework for simultaneous integration of multiple photovoltaic and battery energy storage systems in distribution networks. <i>Journal of Energy Storage</i> , 2021, 35, 102263.	8.1	28
21	Improved Fireworks Algorithm with Chaotic Sequence Operator for Large-Scale Non-convex Economic Load Dispatch Problem. <i>Arabian Journal for Science and Engineering</i> , 2018, 43, 2919-2929.	3.0	25
22	Optimal Allocation of DGs and Reconfiguration of Radial Distribution Systems Using an Intelligent Search-based TLBO. <i>Electric Power Components and Systems</i> , 2017, 45, 476-490.	1.8	23
23	A Hierarchical Price-Based Demand Response Framework in Distribution Network. <i>IEEE Transactions on Smart Grid</i> , 2022, 13, 1151-1164.	9.0	22
24	An integrated approach for distributed resource allocation and network reconfiguration considering load diversity among customers. <i>Sustainable Energy, Grids and Networks</i> , 2016, 7, 37-46.	3.9	21
25	Optimal placement of fixed and switched shunt capacitors for large-scale distribution systems using genetic algorithms. , 2010, , .		20
26	Optimal accommodation and management of high renewable penetration in distribution systems. <i>Journal of Engineering</i> , 2017, 2017, 1890-1895.	1.1	20
27	Dynamically controlled particle swarm optimization for large-scale nonconvex economic dispatch problems. <i>International Transactions on Electrical Energy Systems</i> , 2015, 25, 3060-3074.	1.9	19
28	A Taguchi-based approach for optimal placement of distributed generations for power loss minimization in distribution system. , 2015, , .		18
29	Multi-area Economic Dispatch Using Improved Particle Swarm Optimization. <i>Energy Procedia</i> , 2015, 75, 1087-1092.	1.8	18
30	An adaptive demand response framework using price elasticity model in distribution networks. <i>Electric Power Systems Research</i> , 2022, 202, 107597.	3.6	17
31	Efficient reconfiguration of distribution systems using ant colony optimization adapted by graph theory. , 2011, , .		16
32	Impact analysis of demand response on optimal allocation of wind and solar based distributed generations in distribution system. <i>Energy Sources, Part B: Economics, Planning and Policy</i> , 2021, 16, 75-90.	3.4	16
33	Modified Taguchi-Based Approach for Optimal Distributed Generation Mix in Distribution Networks. <i>IEEE Access</i> , 2019, 7, 135689-135702.	4.2	15
34	Modified elephant herding optimisation for economic generation coordination of DERs and BESS in grid connected microgrid. <i>Journal of Engineering</i> , 2017, 2017, 1969-1973.	1.1	14
35	Optimal Planning of Hybrid Energy Conversion Systems for Annual Energy Cost Minimization in Indian Residential Buildings. <i>Energy Procedia</i> , 2019, 158, 2979-2985.	1.8	14
36	Branch current decomposition method for loss allocation in contemporary distribution systems. <i>International Journal of Electrical Power and Energy Systems</i> , 2018, 99, 134-145.	5.5	13

#	ARTICLE	IF	CITATIONS
37	Resiliency in active distribution systems via network reconfiguration. Sustainable Energy, Grids and Networks, 2021, 26, 100434.	3.9	13
38	Nonconvex Economic Dispatch Using Particle Swarm Optimization with Time Varying Operators. Advances in Electrical Engineering, 2014, 2014, 1-13.	1.1	12
39	Design and operation of DSTATCOM for power quality improvement in distribution systems. Journal of Engineering, 2017, 2017, 2328-2333.	1.1	12
40	Modeling and assessment of incentive based demand response using price elasticity model in distribution systems. Electric Power Systems Research, 2022, 206, 107836.	3.6	12
41	A novel method for simultaneous phase balancing and mitigation of neutral current harmonics in secondary distribution systems. International Journal of Electrical Power and Energy Systems, 2014, 55, 645-656.	5.5	11
42	Multi-area Environmental Economic Dispatch with Reserve Constraints Using Enhanced Particle Swarm Optimization. Electric Power Components and Systems, 2015, 43, 1667-1679.	1.8	11
43	Current decomposition method for loss allocation in distribution systems. IET Generation, Transmission and Distribution, 2017, 11, 4599-4607.	2.5	10
44	Multiobjective optimal sizing of battery energy storage in grid-connected microgrid. Journal of Engineering, 2019, 2019, 5280-5283.	1.1	10
45	A novel strategy for phase balancing in three-phase four-wire distribution systems. , 2011, , .		9
46	Optimal Allocation of Distributed Energy Resources Using Improved Meta-heuristic Techniques. Electric Power Components and Systems, 2016, 44, 1466-1477.	1.8	9
47	Dispatchable solar photovoltaic power generation planning for distribution systems. , 2017, , .		9
48	Cross-term Decomposition Method for Loss Allocation in Distribution Systems Considering Load Power Factor. Electric Power Components and Systems, 2018, 46, 218-229.	1.8	9
49	Reconfiguration of radial distribution systems with fuzzy multi-objective approach using adaptive particle swarm optimization. , 2010, , .		8
50	Mobile Power Infrastructure Planning and Operational Management for Smart City Applications. Energy Procedia, 2017, 142, 2202-2207.	1.8	8
51	Distribution network reconfiguration using population-based AI techniques: A comparative analysis. , 2012, , .		7
52	Dynamic economic dispatch of Micro-grid using Harmony Search Algorithm. , 2015, , .		7
53	Stochastic Economic Load Dispatch with Multiple Fuels using Improved Particle Swarm Optimization. IFAC-PapersOnLine, 2015, 48, 490-494.	0.9	7
54	Optimal Tuning of Multimachine Power System Stabilizer using Cuckoo Search Algorithm. IFAC-PapersOnLine, 2015, 48, 143-148.	0.9	7

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55	New Sensitivity based Approach for Optimal Allocation of Shunt Capacitors in Distribution Networks Using PSO. Energy Procedia, 2015, 75, 1153-1158.	1.8	7
56	Multimachine power system stabilizer tuning using Harmony Search algorithm. , 2016, , .		7
57	Optimal integration of electric vehicles and energy management of grid connected microgrid. , 2017, , .		7
58	Reliability and Network Performance Enhancement by Reconfiguring Underground Distribution Systems. Energies, 2020, 13, 4719.	3.1	7
59	A modified branch-exchange heuristic algorithm for large-scale distribution networks reconfiguration. , 2012, , .		6
60	Improved Particle Swarm Optimization for Multi-area Economic Dispatch with Reserve Sharing Scheme. IFAC-PapersOnLine, 2015, 48, 161-166.	0.9	6
61	Probabilistic power flow in radial distribution systems using point estimate methods. , 2017, , .		6
62	Genetic algorithm based method for capacitor placement using new sensitivity based approach. , 2014, , .		5
63	A Two Stage Interactive Framework for Demand Side Management in Smart Grid. , 2019, , .		5
64	Network constrained Economic Load Dispatch using Biogeography Based Optimization. , 2012, , .		4
65	Application of TLBO for Distribution Network Planning via Coordination of Distributed Generation and Network Reconfiguration. IFAC-PapersOnLine, 2015, 48, 25-30.	0.9	4
66	Non-convex economic load dispatch using particle swarm optimization with elevated search and addressed operators. , 2015, , .		4
67	Demand Response in the Global Arena: Challenges and Future Trends. , 2019, , .		4
68	Exact Cross-Term Decomposition Method for Loss Allocation in Contemporary Distribution Systems. Arabian Journal for Science and Engineering, 2019, 44, 1977-1988.	3.0	4
69	Enhanced Particle Swarm Optimization for Short-Term Non-Convex Economic Scheduling of Hydrothermal Energy Systems. Journal of Electrical Engineering and Technology, 2015, 10, 1940-1949.	2.0	4
70	Estimation and elimination of harmonics in power system using modified FFT with variable learning of Adaline. , 2010, , .		3
71	Variable Acceleration Coefficient-based Particle Swarm Optimization for Non-Convex Economic load dispatch problem. , 2011, , .		3
72	Reconfiguration of distribution network for loss reduction at different load schemes. , 2012, , .		3

#	ARTICLE	IF	CITATIONS
73	Discrete particle swarm optimization for optimal DG placement in distribution networks. , 2014, , .		3
74	Robust tuning of multimachine power system Stabilizer via Cuckoo Search Optimization Algorithm. , 2016, , .		3
75	An efficient AI-based approach for dynamic scheduling of grid connected microgrid. , 2017, , .		3
76	A Scenario-based Stochastic Dynamic Economic Load Dispatch Considering Wind Uncertainty. , 2019, , .		3
77	Day-Ahead Optimal Scheduling of Distributed Resources and Network Reconfiguration Under Uncertain Environment. Electric Power Components and Systems, 2020, 48, 1945-1954.	1.8	3
78	An efficient greedy approach for reactive compensation on large-scale distribution systems. , 2011, , .		2
79	Robust allocation of DGs integrated with distribution network reconfiguration. , 2015, , .		2
80	An UVLO featured average current mode controlled boost converter design for automotive industry applications. , 2016, , .		2
81	Inbred GA for optimal distributed resource allocation in distribution systems. Journal of Engineering, 2017, 2017, 1351-1355.	1.1	2
82	Investigation of network reconfiguration on the reliability and performance of distribution systems using CRO. , 2017, , .		2
83	Joint Allocation and Operational Management of DG and BESS in Distribution System in Presence of Demand Response. , 2019, , .		2
84	A Coordinated Operation of Multiple Distributed Energy Resource Technologies for Arbitrage Benefit Enhancement. , 2020, , .		2
85	Estimation of State-of-Charge for Dynamic Management of Battery Energy Storage Systems for High Renewable Penetration. , 2020, , .		2
86	Optimal penetration of renewable sources for distribution system performance improvement. , 2015, , .		1
87	Small-signal stability enhancement of multimachine power system using bio-inspired algorithms. , 2016, , .		1
88	Small signal stability enhancement of multimachine power system stabilizer using cuckoo search algorithm. , 2016, , .		1
89	Coordination of Distributed Energy Resources to Enhance Operation of Smart Distribution System. , 2019, , .		1
90	Network Reconfiguration of Radial Active Distribution Systems in Uncertain Environment Using Super Sense Genetic Algorithm. International Journal of Emerging Electric Power Systems, 2020, 21, .	0.8	1

#	ARTICLE	IF	CITATIONS
91	Impact of load diversity on DR allocation and operation. , 2017, , .		0
92	Impact of Optimal Scheduling of DRs and Network Reconfiguration on the Performance of Active Distribution Systems. , 2018, , .		0
93	Optimal Planning of Photovoltaic and Battery Storage in Distribution Grid Integrated with Demand Response. , 2020, , .		0
94	Circuit Theory Base Loss Allocation Methods for Contemporary Distribution System: A Comparative Study. Lecture Notes in Electrical Engineering, 2022, , 787-793.	0.4	0