C Singh

List of Publications by Year
in descending order

76 papers	2,545 citations	218677 26 h-index	214800 47 g-index
76 all docs	76 docs citations	76 times ranked	1302 citing authors

#	Article	IF	Citations
1	An Information Theoretic Approach to Originality and Bias in Science. Fluctuation and Noise Letters, 2020, 19, 2050034.	1.5	0
2	A Fast Contingency Screening Technique for Generation System Reliability Evaluation. IEEE Transactions on Power Systems, 2013, 28, 4127-4133.	6.5	29
3	Overview of Common Mode outages in power systems. , 2012, , .		12
4	Composite Reliability Evaluation Using Monte Carlo Simulation and Least Squares Support Vector Classifier. IEEE Transactions on Power Systems, 2011, 26, 2483-2490.	6.5	58
5	Efficient traffic loss evaluation for transport backbone networks. Computer Networks, 2010, 54, 1683-1691.	5.1	4
6	State-space partitioning method for composite power system reliability assessment. IET Generation, Transmission and Distribution, 2010, 4, 780.	2.5	29
7	Improving Power System Reliability Calculation Efficiency With EPSO Variants. IEEE Transactions on Power Systems, 2009, 24, 1772-1779.	6.5	70
8	Multicriteria Design of Hybrid Power Generation Systems Based on a Modified Particle Swarm Optimization Algorithm. IEEE Transactions on Energy Conversion, 2009, 24, 163-172.	5.2	237
9	Population-Based Intelligent Search in Reliability Evaluation of Generation Systems With Wind Power Penetration. IEEE Transactions on Power Systems, 2008, 23, 1336-1345.	6.5	102
10	Efficient availability evaluation for transport backbone networks. , 2008, , .		7
11	Probabilistic approach to available transfer capability calculation. Electric Power Systems Research, 2007, 77, 813-820.	3.6	23
12	A method for generation adequacy planning in multi-area power systems using dynamic programming and global decomposition. , 2006, , .		1
13	Reliability and Cost Tradeoff in Multiarea Power System Generation Expansion Using Dynamic Programming and Global Decomposition. IEEE Transactions on Power Systems, 2006, 21, 1432-1441.	6.5	19
14	A reliability assessment methodology for distribution systems with distributed generation. , 2006, , .		21
15	Post-Outage Reactive Power Flow Calculations by Genetic Algorithms: Constrained Optimization Approach. IEEE Transactions on Power Systems, 2005, 20, 1266-1272.	6.5	23
16	Optimal Operating Strategy for Distributed Generation Considering Hourly Reliability Worth. IEEE Transactions on Power Systems, 2004, 19, 287-292.	6.5	94
17	A Practical Approach for Integrated Power System Vulnerability Analysis With Protection Failures. IEEE Transactions on Power Systems, 2004, 19, 1811-1820.	6.5	159
18	Calculation of risk and statistical indices associated with available transfer capability. IET Generation, Transmission and Distribution, 2003, 150, 239.	1.1	40

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19	Branch outage simulation for mvar flows: bounded network solution. IEEE Transactions on Power Systems, 2003, 18, 1523-1528.	6.5	20
20	Adequacy assessment of power system generation using a modified simple genetic algorithm. IEEE Transactions on Power Systems, 2002, 17, 974-981.	6.5	59
21	Including uncertainty in LOLE calculation using fuzzy set theory. IEEE Transactions on Power Systems, 2002, 17, 19-25.	6.5	41
22	Assessment of available transfer capability and margins. IEEE Transactions on Power Systems, 2002, 17, 463-468.	6.5	239
23	Real power transfer capability calculations using multi-layer feed-forward neural networks. IEEE Transactions on Power Systems, 2000, 15, 903-908.	6.5	85
24	A direct method for multi-area production simulation. IEEE Transactions on Power Systems, 1999, 14, 906-912.	6.5	10
25	Integrating research results into a power engineering curriculum. IEEE Transactions on Power Systems, 1999, 14, 404-411.	6.5	6
26	Quickprop algorithm for transfer capability calculations. , 1999, , .		2
27	Pruning and simulation for determination of frequency and duration indices of composite power systems. IEEE Transactions on Power Systems, 1999, 14, 899-905.	6.5	56
28	Composite system reliability evaluation using state space pruning. IEEE Transactions on Power Systems, 1997, 12, 471-479.	6.5	132
29	Capacity assistance distributions for arbitrarily configured multi-area networks. IEEE Transactions on Power Systems, 1997, 12, 1530-1535.	6.5	8
30	An efficient decomposition approach for multi-area production costing. International Journal of Electrical Power and Energy Systems, 1996, 18, 259-270.	5.5	1
31	An alternative approach to rounding off generation models in power system reliability evaluation. Electric Power Systems Research, 1996, 36, 37-44.	3.6	14
32	Incorporating the DC load flow model in the decomposition-simulation method of multi-area reliability evaluation. IEEE Transactions on Power Systems, 1996, 11, 1245-1254.	6.5	63
33	Reliability evaluation of interconnected power systems using a multi-parameter gamma distribution. International Journal of Electrical Power and Energy Systems, 1995, 17, 151-160.	5.5	5
34	Models and considerations for parallel implementation of Monte Carlo simulation methods for power system reliability evaluation. IEEE Transactions on Power Systems, 1995, 10, 779-787.	6.5	34
35	A fast and efficient method for reliability evaluation of interconnected power systems-preferential decomposition method. IEEE Transactions on Power Systems, 1994, 9, 644-652.	6.5	10
36	Convergence characteristics of two Monte Carlo models for reliability evaluation of interconnected power systems. Electric Power Systems Research, 1993, 28, 1-9.	3.6	20

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37	A new approach to reliability evaluation of interconnected power systems including planned outages and frequency calculations. IEEE Transactions on Power Systems, 1992, 7, 734-743.	6.5	46
38	Reliability analysis of generating systems including intermittent sources. International Journal of Electrical Power and Energy Systems, 1992, 14, 2-8.	5.5	23
39	A generalized continuous distribution approach for generating capacity reliability evaluation and its applications. IEEE Power Engineering Review, 1991, 11, 42.	0.1	0
40	The extended decomposition-simulation approach for multi-area reliability calculations. IEEE Transactions on Power Systems, 1990, 5, 1024-1031.	6.5	33
41	Modeling of generating unit planned outages in the decomposition-simulation approach for multi-area reliability calculations. IEEE Transactions on Power Systems, 1989, 4, 1081-1088.	6.5	3
42	Improved algorithms for multi-area reliability evaluation using the decomposition-simulation approach. IEEE Transactions on Power Systems, 1989, 4, 321-328.	6.5	55
43	Generation system reliability evaluation using a cluster based load model. IEEE Transactions on Power Systems, 1989, 4, 102-107.	6.5	25
44	An efficient technique for reliability analysis of power systems including time dependent sources. IEEE Transactions on Power Systems, 1988, 3, 1090-1096.	6.5	131
45	Reliability Modeling of Generation Systems Including Unconventional Energy Sources. IEEE Transactions on Power Apparatus and Systems / Technical Operations Committee, 1985, PAS-104, 1049-1056.	0.4	145
46	Evaluation Of Load Management Effects Using The Opcon Generation Reliability Model. IEEE Transactions on Power Apparatus and Systems / Technical Operations Committee, 1984, PAS-103, 3229-3238.	0.4	14
47	Probability Distribution Functions for Generation Reliability Indices - Analytical Approach. IEEE Power Engineering Review, 1983, PER-3, 25-25.	0.1	1
48	Non-Markovian Models for Common Mode Failures in Transmission Systems. IEEE Power Engineering Review, 1982, PER-2, 40-41.	0.1	2
49	Rules for Calculating the Time-Specific Frequency of System Failure. IEEE Transactions on Reliability, 1981, R-30, 364-366.	4.6	36
50	Operating Considerations in Generation Reliability Modeling-An Analytical Approach. IEEE Transactions on Power Apparatus and Systems / Technical Operations Committee, 1981, PAS-100, 2656-2663.	0.4	49
51	Models and concepts for power system reliability evaluation including protection-system failures. International Journal of Electrical Power and Energy Systems, 1980, 2, 161-168.	5.5	35
52	Effect of Probability Distributions on Steady State Frequency. IEEE Transactions on Reliability, 1980, R-29, 274-274.	4.6	5
53	Protection System Reliability Modeling: Unreadiness Probability and Mean Duration of Undetected Faults. IEEE Transactions on Reliability, 1980, R-29, 339-340.	4.6	58
54	A new method to determine the failure frequency of a complex system. Microelectronics Reliability, 1973, 12, 459-465.	1.7	9

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55	Propagation of variance using a new approximation in system design of integrated circuits. , 0, , .		3
56	An efficient algorithm for constructing the capacity outage table in generating capacity reliability studies. , 0, , .		0
57	Monte Carlo simulation for reliability analysis of emergency and standby power systems. , 0, , .		18
58	Predicting system performance variances using enhanced propagation of variance. , 0, , .		0
59	New medium voltage PWM inverter topologies for adjustable speed AC motor drive systems. , 0, , .		21
60	A new conceptual framework for multi-area power system reliability evaluation. , 0, , .		1
61	Using self-organizing map in identification of load-loss state. , 0, , .		0
62	Loss-of-load state identification using self-organizing map. , 0, , .		14
63	Role of reliability, risk and probabilistic analysis in the competitive environment. , 0, , .		4
64	Power system reliability evaluation using self organizing map. , 0, , .		15
65	Consideration of the reliability benefits in pricing transmission services. , 0, , .		4
66	Some common misconceptions in proposal writing and how to enhance your chances of funding. , 0, , .		0
67	A new method for composite system annualized reliability indices based on genetic algorithms. , 0, , .		22
68	Probabilistic security analysis using SOM and Monte Carlo simulation. , 0, , .		7
69	Contingency screening for steady state security analysis by using genetic algorithms. , 0, , .		6
70	Line outage simulation by bounded network solution. , 0, , .		4
71	Voltage and reactive power distribution factors calculated by genetic algorithms. , 0, , .		2
72	Genetic algorithms approach for the evaluation of composite generation-transmission systems reliability worth. , 0, , .		8

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73	Security analysis for system operation using Bayes classifier. , 0, , .		2
74	Diagnosis of power transformers using modified self organizing map. , 0, , .		1
75	Using Genetic Algorithms for Reliability Calculations of Complex Power Systems. , 0, , .		3
76	Earth parameter and equivalent resistivity estimation using ANN. , 0, , .		7