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MATPOWER: Steady-State Operations, Planning, and Analysis Tools for Power Systems Research and Education

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2208	Estimating the state of AC power systems using semidefinite programming. 2011 ,		27
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2206	Optimal placement of UPFC for maximizing system loadability and minimize active power losses by NSGA-II. 2011 ,		6
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2203	Transmission expansion planning by meta-heuristic techniques: A comparison of Shuffled Frog Leaping Algorithm, PSO and GA. 2011,	16
2202	Improved method for integrating renewable energy sources into the power system of Northern Europe: Transmission expansion planning for wind power integration. 2011,	3
2201	Utilization of FPAA Technology for Emulation of Multiscale Power System Dynamics in Smart Grids. 2011, 2, 606-614	7
2200	Agent-Based Electricity Market Simulation With Demand Response From Commercial Buildings. 2011, 2, 580-588	112
2199	Developing cyber-physical experimental capabilities for the security analysis of the future Smart Grid. 2011,	5
2198	DG integrated multistage distribution system expansion planning. 2011, 33, 1489-1497	108
2197	Developing a dynamic model of cascading failure for high performance computing using trilos. 2011,	10
2196	Monte Carlo Analysis of the impacts of high renewable power penetration. 2011,	6
2195	Electric power network security analysis via minimum cut relaxation. 2011,	41
2194	Distributed detection of cyber-physical attacks in power networks: A waveform relaxation approach. 2011,	12
2193	Examining the limits of the application of semidefinite programming to power flow problems. 2011	124
2192	Minimization of Losses in Smart Grids Using Coordinated Voltage Control. 2012, 5, 3768-3787	12
2191	Letter to the Editor: Risk Index Functions of Voltage Instability with Load Changes. 2012, 40, 453-459	0
2190	Impacts of control and communication system vulnerabilities on power systems under contingencies. 2012,	9
2189	A new transmission cost allocation method considering power flow duration time in Smart Grid. 2012,	4
2188	Alternate mechanisms for integrating renewable sources of energy into electricity markets. 2012,	6
2187	Approach and main results of the G4V project analyzing the impact of a mass introduction of electric vehicles on electricity networks in Europe. 2012,	3
2186	Effect of stealthy bad data injection on network congestion in market based power system. 2012,	24

2185	Optimal operation strategy and sizing of battery energy storage systems. 2012,		4
2184	. 2012, 27, 936-944		17
2183	A New Stochastic Search Technique Combined With Scenario Approach for Dynamic State Estimation of Power Systems. <i>IEEE Transactions on Power Systems</i> , 2012, 27, 2093-2105	7	20
2182	Sparse Overcomplete Representations for Efficient Identification of Power Line Outages. <i>IEEE Transactions on Power Systems</i> , 2012, 27, 2215-2224	7	140
2181	Computing Critical k -Tuples in Power Networks. <i>IEEE Transactions on Power Systems</i> , 2012, 27, 1511-1520		37
2180	. <i>IEEE Transactions on Power Systems</i> , 2012, 27, 1698-1705	7	156
2179	Generalized Steady-State VSC MTDC Model for Sequential AC/DC Power Flow Algorithms. <i>IEEE Transactions on Power Systems</i> , 2012, 27, 821-829	7	265
2178	Maximizing transmission capacity through a minimum set of distributed multi-type FACTS. 2012,		8
2177	. <i>IEEE Transactions on Power Systems</i> , 2012, 27, 2271-2279	7	27
2176	Impact of different electric vehicle charging strategies onto required distribution grid reinforcement. 2012,		4
2175	A Cournot game analysis on market effects of queuing energy request as demand response. 2012,		3
2174	Decentralized Plug-in Electric Vehicle Charging Selection Algorithm in Power Systems. 2012, 3, 1779-1789		148
2173	Convex Models of Distribution System Reconfiguration. <i>IEEE Transactions on Power Systems</i> , 2012, 27, 1407-1413	7	237
2172	Comparing Policy Gradient and Value Function Based Reinforcement Learning Methods in Simulated Electrical Power Trade. <i>IEEE Transactions on Power Systems</i> , 2012, 27, 373-380	7	13
2171	Transmission System Topology Optimization for Large-Scale Offshore Wind Integration. 2012, 3, 908-917		53
2170	Optimal power flow: a bibliographic survey II. 2012, 3, 259-289		179
2169	Application of MIQCP based SVC allocation method to a complex real-world grid. 2012,		3
2168	Ancillary services in systems with high penetrations of renewable energy sources, the case of ramping. 2012, 34, 1959-1971		28

2167	Identification of voltage control areas in power systems with large scale wind power integration. 2012,	3
2166	Incentive based demand response program: An effective way to tackle peaking electricity crisis. 2012,	
2165	Global optimization of Optimal Power Flow using a branch & bound algorithm. 2012,	31
2164	Joint power system state estimation and breaker status identification. 2012,	22
2163	Neuro-fuzzy system for power generation quality improvements. 2012,	1
2162	. 2012,	
2161	Coordinated voltage-control in distribution systems under uncertainty. 2012,	9
2160	Approximate solutions and performance bounds for the sensor placement problem. 2012,	3
2159	Optimal transmission expansion planning using Mean-Variance Mapping Optimization. 2012,	9
2158	Power flow cyber attacks and perturbation-based defense. 2012,	45
2157	On PMU location selection for line outage detection in wide-area transmission networks. 2012,	6
2156	Minpower: A power systems optimization toolkit. 2012,	4
2155	Contingency constrained optimal power flow solutions in complex network power grids. 2012,	
2154	Market based approach for solving optimal power flow problem in smart grid. 2012,	4
2153	Reduced-order synchrophasor-assisted state estimation for smart grids. 2012,	7
2152	Preventive Dynamic Security Control of Power Systems Based on Pattern Discovery Technique. <i>IEEE Transactions on Power Systems</i> , 2012 , 27, 1236-1244	7 36
2151	An Optimal Power Flow Algorithm to Achieve Robust Operation Considering Load and Renewable Generation Uncertainties. <i>IEEE Transactions on Power Systems</i> , 2012 , 27, 1808-1817	7 74
2150	A Hybrid Method for Transient Stability-Constrained Optimal Power Flow Computation. <i>IEEE Transactions on Power Systems</i> , 2012 , 27, 1769-1777	7 54

2149	Robust power system state estimation for the nonlinear AC flow model. 2012,		9
2148	Optimal Placement of Phasor Measurement Units via Convex Relaxation. <i>IEEE Transactions on Power Systems</i> , 2012 , 27, 1521-1530	7	69
2147	SCPSE: Security-Oriented Cyber-Physical State Estimation for Power Grid Critical Infrastructures. 2012 , 3, 1790-1799		114
2146	Unidentifiable Attacks in Electric Power Systems. 2012,		16
2145	Evaluation of two approaches for simulating cyber-physical energy systems. 2012,		13
2144	Agent-based modeling for trading wind power with uncertainty in the day-ahead wholesale electricity markets of single-sided auctions. 2012 , 99, 13-22		61
2143	. 2012,		19
2142	Post outage bus voltage calculations for double branch outages. 2012,		2
2141	How will demand response aggregators affect electricity markets? A Cournot game analysis. 2012,		19
2140	Integrating distributed energy resources in the electrical grid considering resource variability for reliable power planning. 2012,		1
2139	Distributed models for sparse attack construction and state vector estimation in the smart grid. 2012,		17
2138	Decentralized power system state estimation. 2012,		3
2137	. 2012,		13
2136	Optimal power flow for combined AC and multi-terminal HVDC grids based on VSC converters. 2012,		49
2135	Intelligent decision making for energy management in microgrids with air pollution reduction policy. 2012,		2
2134	Optimal placement of energy storage in the grid. 2012,		46
2133	A novel approach to distributed energy resource planning using NSGA-II. 2012,		
2132	. 2012,		11

2131	Ordinal optimization for optimal Capacitor Placement and network reconfiguration in radial distribution networks. 2012,	3
2130	Analysis, modeling, and simulation of autonomous microgrids with a high penetration of renewables. 2012,	7
2129	Locational marginal price for distribution system considering demand response. 2012,	18
2128	Smarter security in the smart grid. 2012,	9
2127	Preliminary study on reactive power optimization of local high-voltage distribution network with large-scale PV integration. 2012,	
2126	Comparing the Topological and Electrical Structure of the North American Electric Power Infrastructure. 2012, 6, 616-626	117
2125	. 2012,	19
2124	An application of artificial bee colony algorithm with least squares support vector machine for real and reactive power tracing in deregulated power system. 2012, 37, 67-77	50
2123	Ancillary services market framework for voltage control in distribution networks with microgrids. 2012, 86, 1-7	68
2122	Reactive power tracing in pool-based power system utilising the hybrid genetic algorithm and least squares support vector machine. 2012, 6, 133	13
2121	Modeling of Plug-in Hybrid Electric Vehicle Charging Demand in Probabilistic Power Flow Calculations. 2012, 3, 492-499	281
2120	Assessing Wind Turbines Placement in a Distribution Market Environment by Using Particle Swarm Optimization. <i>IEEE Transactions on Power Systems</i> , 2013, 28, 3852-3864	7 38
2119	Transient stability constrained optimal power flow using independent dynamic simulation. 2013, 7, 244-253	22
2118	Real-time intrusion detection in power system operations. <i>IEEE Transactions on Power Systems</i> , 2013, 28, 1052-1062	7 98
2117	Chance-Constrained Optimization-Based Unbalanced Optimal Power Flow for Radial Distribution Networks. 2013, 28, 1855-1864	52
2116	Consolidated Dynamic Pricing of Power System Regulation. <i>IEEE Transactions on Power Systems</i> , 2013, 28, 4692-4700	7 15
2115	Mapping Energy Futures Using the SuperOPF Planning Tool: An Integrated Engineering, Economic and Environmental Model. 2013,	4
2114	Reliability and Risk Evaluation of Wind Integrated Power Systems. 2013,	18

2113	Power system observability via optimization. 2013 , 104, 207-215		5
2112	Second-Order Cone Programming for Optimal Power Flow in VSC-Type AC-DC Grids. <i>IEEE Transactions on Power Systems</i> , 2013 , 28, 4282-4291	7	99
2111	. <i>IEEE Transactions on Power Systems</i> , 2013 , 28, 4558-4567	7	192
2110	Probabilistic Assessment of the Impact of Wind Energy Integration Into Distribution Networks. <i>IEEE Transactions on Power Systems</i> , 2013 , 28, 4209-4217	7	46
2109	Dynamic Economic Dispatch Considering Transmission Losses Using Quadratically Constrained Quadratic Program Method. <i>IEEE Transactions on Power Systems</i> , 2013 , 28, 2232-2241	7	45
2108	. 2013 , 31, 1306-1318		105
2107	Conic AC transmission system planning. <i>IEEE Transactions on Power Systems</i> , 2013 , 28, 952-959	7	40
2106	Monitoring and Optimization for Power Grids: A Signal Processing Perspective. 2013 , 30, 107-128		153
2105	A Probabilistic Framework for Reserve Scheduling and $N-1$ Security Assessment of Systems With High Wind Power Penetration. <i>IEEE Transactions on Power Systems</i> , 2013 , 28, 3885-3896	7	125
2104	Secure Planning and Operations of Systems With Stochastic Sources, Energy Storage, and Active Demand. 2013 , 4, 2220-2229		103
2103	. 2013 ,		22
2102	Fast selection of N contingencies for online security assessment. 2013 ,		5
2101	On the Exact Solution to a Smart Grid Cyber-Security Analysis Problem. 2013 , 4, 856-865		75
2100	An implementation of particle swarm optimization to evaluate optimal under-voltage load shedding in competitive electricity markets. 2013 , 242, 122-131		14
2099	. 2013 , 4, 2266-2273		13
2098	Local Solutions of the Optimal Power Flow Problem. <i>IEEE Transactions on Power Systems</i> , 2013 , 28, 4780-4788	117	
2097	. <i>IEEE Transactions on Power Systems</i> , 2013 , 28, 4979-4987	7	128
2096	Graph partitioning of power network for emergency voltage control. 2013 ,		4

2095	Authenticated voltage control of partitioned power networks with optimal allocation of STATCOM using heuristic algorithm. 2013 , 7, 1037-1045		17
2094	Towards effective clustering techniques for the analysis of electric power grids. 2013 ,		5
2093	An Affine Arithmetic-Based Method for Voltage Stability Assessment of Power Systems With Intermittent Generation Sources. <i>IEEE Transactions on Power Systems</i> , 2013 , 28, 4475-4487	7	33
2092	. 2013 , 58, 2715-2729		1107
2091	. 2013 ,		2
2090	Operation and tariff for composite PV-battery system. 2013 ,		
2089	Real-time data reassurance in electrical power systems based on artificial neural networks. 2013 , 96, 285-295		29
2088	Defending against Unidentifiable Attacks in Electric Power Grids. 2013 , 24, 1961-1971		19
2087	Adjustable Robust OPF With Renewable Energy Sources. <i>IEEE Transactions on Power Systems</i> , 2013 , 28, 4742-4751	7	220
2086	. <i>IEEE Transactions on Power Systems</i> , 2013 , 28, 1461-1469	7	59
2085	Coordinated Control Strategy Considering Effect of Neighborhood Compensation for Voltage Improvement in Transmission Systems. <i>IEEE Transactions on Power Systems</i> , 2013 , 28, 4507-4515	7	18
2084	A DC power flow extension. 2013 ,		3
2083	Probabilistic Power Flow by Monte Carlo Simulation With Latin Supercube Sampling. <i>IEEE Transactions on Power Systems</i> , 2013 , 28, 1550-1559	7	134
2082	Identification of power injection capabilities for transmission system investment optimization. 2013 ,		4
2081	Novel insights into lossless AC and DC power flow. 2013 ,		30
2080	Real-time thevenin impedance computation. 2013 ,		17
2079	VSC-HVDC model-based power system optimal power flow algorithm and analysis. 2013 ,		
2078	Transmission expansion planning in electricity market: The case in Vietnam. 2013 ,		4

2077	Analysis of a reactive power exchange between distribution and transmission grids. 2013,	10
2076	A decentralized approach to generalized power system state estimation. 2013,	2
2075	. 2013,	15
2074	The development of a smart grid co-simulation platform and case study on Vehicle-to-Grid voltage support application. 2013,	5
2073	Probabilistic security-constrained optimal power flow including the controllability of HVDC lines. 2013,	11
2072	Semantic security analysis of SCADA networks to detect malicious control commands in power grids. 2013,	24
2071	MATCASC: A tool to analyse cascading line outages in power grids. 2013,	17
2070	Cost-benefit analysis of central and local voltage control provided by distributed generators in MV networks. 2013,	6
2069	Distributed state estimation with lossy measurement compression in smart grid. 2013,	1
2068	Contingency analysis on 500kV Jawa-Bali Transmission Line System based on Power Load Performance Index. 2013,	0
2067	Coordination of multiple HVDC links in power systems during alert and emergency situations. 2013,	2
2066	Optimal dispatch of reactive power sources by using MVMOs optimization. 2013,	10
2065	On the role of power-grid and communication-system interdependencies on cascading failures. 2013,	17
2064	Improving the accuracy of system security assessment in highly stressed transmission grids. 2013,	0
2063	GridSpice: A distributed simulation platform for the smart grid. 2013,	20
2062	Fully decentralized AC optimal power flow algorithms. 2013,	40
2061	A relaxed AC optimal power flow model based on a Taylor series. 2013,	15
2060	An approach to real time electricity marginal cost pricing calculation with impact factors and carbon emissions. 2013,	

2059	Study of particle swarm optimization variations applied to transmission expansion planning. 2013,	4
2058	A distributed control strategy for optimal reactive power flow with power and voltage constraints. 2013,	9
2057	Systematic integration guidance for alleviating substation congestions of steel mill power systems by distributed generation units. 2013,	
2056	Inferring low voltage transformer state using only Smart Metering data. 2013,	3
2055	The multidimensional character of electric systems storage. 2013,	0
2054	An architecture for implementing state estimation application in Distribution Management System (DMS). 2013,	6
2053	A robustness metric for cascading failures by targeted attacks in power networks. 2013,	11
2052	Augmented Lagrange Hopfield network initialized by quadratic programming for economic dispatch with piecewise quadratic cost functions and prohibited zones. 2013, 13, 292-301	24
2051	. 2013, 51, 27-33	100
2050	Sensitivity-Based Pricing and Optimal Storage Utilization in Distribution Systems. 2013, 28, 1073-1082	48
2049	A simulated rebounding algorithm applied to the multi-stage security-constrained transmission expansion planning in power systems. 2013, 47, 168-180	20
2048	A competitive Markov decision process model for the energy-water-climate change nexus. 2013, 111, 186-198	42
2047	DC optimal power flow including HVDC grids. 2013,	25
2046	On implementing a spectral clustering controlled islanding algorithm in real power systems. 2013,	4
2045	A network reconfiguration algorithm for the reduction of expected fault currents. 2013,	7
2044	Power flow control and its effect on flow-based transmission cost allocation. 2013,	3
2043	. 2013,	4
2042	Synchronization in complex oscillator networks and smart grids. 2013, 110, 2005-10	538

2041	Probabilistic Guarantees for the N-1 Security of Systems with Wind Power Generation. 2013 , 59-73		23
2040	Modeling Cyber-Physical Vulnerability of the Smart Grid With Incomplete Information. 2013 , 4, 235-244		105
2039	An Information-Theoretic Approach to PMU Placement in Electric Power Systems. 2013 , 4, 446-456		108
2038	Coupon Incentive-Based Demand Response: Theory and Case Study. <i>IEEE Transactions on Power Systems</i> , 2013 , 28, 1266-1276	7	199
2037	Eliminating Redundant Line Flow Constraints in Composite System Reliability Evaluation. <i>IEEE Transactions on Power Systems</i> , 2013 , 28, 3490-3498	7	14
2036	Swarm Intelligence Approaches to Optimal Power Flow Problem With Distributed Generator Failures in Power Networks. 2013 , 10, 343-353		96
2035	Hybrid Approach for Power System Operational Planning With Smart Grid and Small-Signal Stability Enhancement Considerations. 2013 , 4, 530-539		15
2034	A hybrid artificial bee colony assisted differential evolution algorithm for optimal reactive power flow. 2013 , 52, 25-33		85
2033	Methodology for evaluation of grid-tie connection of distributed energy resources - Case study with photovoltaic and energy storage. <i>IEEE Transactions on Power Systems</i> , 2013 , 28, 1132-1139	7	22
2032	Damping of inter-area oscillations in mixed AC/DC networks using WAMS based supplementary controller. <i>IEEE Transactions on Power Systems</i> , 2013 , 28, 1160-1169	7	90
2031	Advances and applications of chance-constrained approaches to systems optimisation under uncertainty. 2013 , 44, 1209-1232		62
2030	Dispersed generation impact on distribution network losses. 2013 , 97, 10-18		40
2029	Multi-Contingency Cascading Analysis of Smart Grid Based on Self-Organizing Map. 2013 , 8, 646-656		52
2028	Optimization of AC Transmission System Planning. <i>IEEE Transactions on Power Systems</i> , 2013 , 28, 2779-2787		60
2027	Optimal wind turbines placement within a distribution market environment. 2013 , 13, 4038-4046		15
2026	. <i>IEEE Transactions on Power Systems</i> , 2013 , 28, 1888-1897	7	38
2025	Implementation of a Large-Scale Optimal Power Flow Solver Based on Semidefinite Programming. <i>IEEE Transactions on Power Systems</i> , 2013 , 28, 3987-3998	7	155
2024	Evaluating the integration of wind power into distribution networks by using Monte Carlo simulation. 2013 , 53, 244-255		31

2023	Distributed Robust Power System State Estimation. <i>IEEE Transactions on Power Systems</i> , 2013 , 28, 1617-1626	293
2022	A stochastic, contingency-based security-constrained optimal power flow for the procurement of energy and distributed reserve. 2013 , 56, 1-10	23
2021	Hierarchical market integration of responsive loads as spinning reserve. 2013 , 104, 229-238	69
2020	Minimization of Transmission Loss in Meshed AC/DC Grids With VSC-MTDC Networks. <i>IEEE Transactions on Power Systems</i> , 2013 , 28, 3047-3055	7 139
2019	Combined Monte Carlo simulation and OPF for wind turbines integration into distribution networks. 2013 , 103, 37-48	28
2018	Modelling generation and infrastructure requirements for transition pathways. 2013 , 52, 60-75	38
2017	Experiments with the interior-point method for solving large scale Optimal Power Flow problems. 2013 , 95, 276-283	55
2016	On the capacity value of renewable energy sources in the presence of energy storage and ramping constraints. 2013 ,	
2015	Optimal generation expansion planning with integration of variable renewables and bulk energy storage systems. 2013 ,	8
2014	Importance of design parameters on flowbased market coupling implementation. 2013 ,	7
2013	Probabilistic Optimal Power Flow with Weibull Probability Distribution Function of System Loading Using Percentiles Estimation. 2013 , 41, 252-270	3
2012	The study on effect of random maintenance quality of components on composite power system reliability. 2013 ,	3
2011	. 2013 ,	2
2010	Integration of induction generator based distributed generation and shunt compensation capacitors in power distribution networks. 2013 ,	3
2009	. 2013 ,	2
2008	Distributed health monitoring system for control in Smart Grid network. 2013 ,	2
2007	Integrating LV network models and load-flow calculations into smart grid planning. 2013 ,	4
2006	Smart grid health monitoring via dynamic compressive sensing. 2013 ,	

2005	Domino of the smart grid: An empirical study of system behaviors in the interdependent network architecture. 2013 ,	8	
2004	A python-based software tool for power system analysis. 2013 ,	101	
2003	Assessing the risk of small disturbance instability in mixed AC/DC networks. 2013 ,	3	
2002	Detecting stealthy false data injection using machine learning in smart grid. 2013 ,	29	
2001	Combined Load Frequency Control and active distribution network management with Thermostatically Controlled Loads. 2013 ,	31	
2000	. 2013 ,	40	
1999	Robust optimal power flow with wind integration using conditional value-at-risk. 2013 ,	25	
1998	A graph theory based new approach for power system restoration. 2013 ,	11	
1997	. <i>IEEE Transactions on Power Systems</i> , 2013 , 28, 272-280	7	64
1996	Optimal placement of multiple-type FACTS devices to maximize power system loadability using a generic graphical user interface. <i>IEEE Transactions on Power Systems</i> , 2013 , 28, 764-778	7	149
1995	Division of the energy market into zones in variable weather conditions using Locational Marginal Prices. 2013 ,	6	
1994	Early prevention of instability-use of self propagating graph for the fast search for optimal grid nodes to apply countermeasures. 2013 ,	3	
1993	Generic modeling and analysis framework for shipboard system design. 2013 ,	1	
1992	Detection of false data injection in power grid exploiting low rank and sparsity. 2013 ,	19	
1991	Penetration limit of photovoltaic distributed generation [Case study for the Italian Embassy in Brasília. 2013 ,	1	
1990	A distribute parallel approach for big data scale optimal power flow with security constraints. 2013 ,	9	
1989	Percolation on random networks with arbitrary k-core structure. 2013 , 88, 062820	21	
1988	Random load fluctuations and collapse probability of a power system operating near codimension 1 saddle-node bifurcation. 2013 ,	9	

1987	Fundamental limits of cyber-physical security in smart power grids. 2013,	4
1986	Robust modeling of probabilistic uncertainty in smart Grids: Data ambiguous Chance Constrained Optimum Power Flow. 2013,	6
1985	"Dual Graph" and "Random Chemistry" Methods for Cascading Failure Analysis. 2013,	7
1984	Power flow formulation based on a mixed-linear and nonlinear system of equations. 2013,	1
1983	. 2013,	2
1982	Maximizing the penetration of plug-in electric vehicles in distribution network. 2013,	2
1981	The Effect of Stochastic Wind Generation on Ramping Costs and the System Benefits of Storage. 2013,	4
1980	Determination of power transfer capability by incremental changes. 2013,	2
1979	Temperature-Dependent Power Flow. <i>IEEE Transactions on Power Systems</i> , 2013 , 28, 4007-4018	7 49
1978	Profit maximizing storage allocation in power grids. 2013,	32
1977	. 2013,	16
1976	Power system structure and confidentiality preserving transformation of Optimal Power Flow problem. 2013,	6
1975	Identification of power distribution network topology via voltage correlation analysis. 2013,	94
1974	Coordinated reactive power control to ensure fairness in active distribution grids. 2013,	0
1973	A distributed control strategy for optimal reactive power flow with power constraints. 2013,	7
1972	Cost-Efficient Environmentally-Friendly Control of Micro-Grids Using Intelligent Decision-Making for Storage Energy Management. 2013 , 19, 649-670	6
1971	Point- and curve-based geometric conflation. 2013 , 27, 192-207	4
1970	Cascading failures in spatially-embedded random networks. 2014 , 9, e84563	30

1969	Analysis of North Sea Offshore Wind Power Variability. 2014 , 3, 454-470	2
1968	Grid topology identification using electricity prices. 2014 ,	23
1967	Applying full MILP model to volt-var optimization problem for MV distribution networks. 2014 ,	6
1966	Inclusion of slack bus in Newton Raphson load flow study. 2014 ,	3
1965	Distributed storage operation in distribution network with stochastic renewable generation. 2014 ,	0
1964	Financial opportunities for LSE under scarcity price environment. 2014 ,	1
1963	. 2014 ,	3
1962	Correcting Optimal Transmission Switching for AC power flows. 2014 ,	1
1961	Optimal malicious attack construction and robust detection in Smart Grid cyber security analysis. 2014 ,	8
1960	The Impact of Variable Market Price on Optimal Control of Wind-Hydro Storage System in Kenya. 2014 ,	2
1959	Revealing cascading failure vulnerability in power grids using risk-graph. 2014 , 25, 3274-3284	99
1958	State observation in medium-voltage grids with incomplete measurement infrastructure through online correction of power forecasts. 2014 ,	4
1957	Calculating negative LMPs from SOCP-OPF. 2014 ,	7
1956	Rectangular representation of FACTS devices in the ACOPF problem. 2014 ,	2
1955	Risk-constrained optimal power flow with probabilistic guarantees. 2014 ,	13
1954	Practical heuristic approach to solve the Optimal Transmission Switching problem for Smart Grids. 2014 ,	1
1953	Relaxations for multi-period optimal power flow problems with discrete decision variables. 2014 ,	3
1952	A generalized unified power flow algorithm for AC/DC networks containing VSC-based multi-terminal DC grid. 2014 ,	7

1951	. 2014 , 29, 968-977	161
1950	Security constrained optimal power flow with FACTS devices using bender decomposition. 2014 ,	2
1949	The potential of network state-based algorithm selection to improve power flow management. 2014 ,	2
1948	Decentralized control of power system zones based on probabilistic constrained load flow. 2014 ,	1
1947	Power Grid Outlier Treatment through Kalman Filter. 2014 ,	2
1946	Semantic Security Analysis of SCADA Networks to Detect Malicious Control Commands in Power Grids (Poster). 2014 ,	2
1945	Efficient Computations of a Security Index for False Data Attacks in Power Networks. 2014 , 59, 3194-3208	75
1944	Performance of AC and DC based transmission switching heuristics on a large-scale polish system. 2014 ,	13
1943	Challenges of ICT and artificial intelligence in smart grids. 2014 ,	6
1942	Moving-horizon dynamic power system state estimation using semidefinite relaxation. 2014 ,	5
1941	. 2014 ,	5
1940	. 2014 ,	6
1939	Security constrained optimal power flow incorporating preventive and corrective control. 2014 ,	1
1938	An AC OPF-based heuristic algorithm for optimal transmission switching. 2014 ,	10
1937	Finite Action-Set Learning Automata for Economic Dispatch Considering Electric Vehicles and Renewable Energy Sources. 2014 , 7, 4629-4647	4
1936	Probabilistic approach for optimal placement and tuning of power system supplementary damping controllers. 2014 , 8, 1831-1842	11
1935	An improved gravitational search algorithm for optimal placement and sizing of renewable distributed generation units in a distribution system for power quality enhancement. 2014 , 6, 033112	15
1934	Optimal charging strategy algorithm for PEVs: A Monte Carlo validation. 2014 ,	1

1933	Distributed power-line outage detection based on wide area measurement system. 2014 , 14, 13114-33	16
1932	Research on Efficient Detection Methods for False Data Injection in Smart Grid. 2014 ,	4
1931	Modeling Interdependent Networks as Random Graphs: Connectivity and Systemic Risk. 2014 , 73-94	6
1930	On geographical allocation of primary frequency control reserves in large interconnected power systems. 2014 ,	3
1929	Distributed Bayesian hybrid power state estimation with PMU synchronization errors. 2014 ,	2
1928	. 2014 ,	7
1927	Probabilistic assessment of wind turbine integration in deregulated electricity market. 2014 ,	
1926	Piecewise affine dispatch policies for economic dispatch under uncertainty. 2014 ,	3
1925	Online optimal power flow with renewables. 2014 ,	0
1924	Development of a power flow software for distribution system analysis based on rectangular voltage using python software package. 2014 ,	1
1923	Resources allocation in disaster response using Ordinal Optimization based approach. 2014 ,	3
1922	Determination of battery capacity for alleviation of thermal overload. 2014 ,	
1921	. 2014 ,	2
1920	Identifying line vulnerability in power system using maximum flow based complex network theory. 2014 ,	1
1919	Improved dc network model for contingency analysis. 2014 ,	1
1918	Pseudo-measurements modeling using neural network and Fourier decomposition for distribution state estimation. 2014 ,	9
1917	A comparison of AC and DC power flow models for contingency and reliability analysis. 2014 ,	5
1916	Feasibility of power system structure preserving linear transformations for the AC optimal power flow problem. 2014 ,	2

1915	Impact of correlated infeeds on risk-based power system security assessment. 2014,	3
1914	Advanced optimization methods for power systems. 2014,	16
1913	Enhancing test power systems for dynamic cascading outage simulations. 2014,	2
1912	Adaptive robust optimization for daily power system operation. 2014,	4
1911	Externally modifying parameters and invoking electromagnetic transients simulation in PSCAD. 2014,	0
1910	. 2014,	16
1909	Practice-oriented optimization of distribution network planning using metaheuristic algorithms. 2014,	10
1908	Analyzing the impact of home energy systems on the electrical grid. 2014,	2
1907	Moment-based relaxation of the optimal power flow problem. 2014,	41
1906	. 2014,	8
1905	Neighborhood electric vehicle charging scheduling using particle swarm optimization. 2014,	2
1904	Cyber security analysis of power networks by hypergraph cut algorithms. 2014,	8
1903	Bad data detection in smart grid for AC model. 2014,	
1902	Integration of Distributed Generation in Power Networks Considering Constraints on Discrete Size of Distributed Generation Units. 2014, 42, 984-994	13
1901	Applicability of line outage distribution factors to evaluate distribution network expansion options. 2014,	2
1900	Barriers to Increasing the Role of Demand Resources in Electricity Markets. 2014,	4
1899	Design and development of an integrated computational simulator for analysis and validation of the implementation of smart grids in Brazilian utilities. 2014,	
1898	Distribution network development based on stochastic modelling approach. 2014,	1

1897	An abrupt change detection heuristic with applications to cyber data attacks on power systems. 2014,	8
1896	Inversiones flexibles en el sistema de transmissi3n bajo incertidumbre basado en opciones reales y teor3a de juegos contra la naturaleza. 2014,	
1895	On modeling of the long term electricity markets in systems with wind and demand response. 2014	
1894	State estimation with sampling offsets in Wide Area Measurement Systems. 2014,	
1893	Functional and Spatial System Model for City Infrastructure Systems: A City.Net IES Case Study. 2014, 17, 62-76	1
1892	Detection of Faults and Attacks Including False Data Injection Attack in Smart Grid Using Kalman Filter. 2014, 1, 370-379	358
1891	Attacks/faults detection and isolation in the Smart Grid using Kalman Filter. 2014,	4
1890	Optimal location of electrical energy storage unit in a power system with wind energy. 2014,	2
1889	Identification of Outages in Power Systems With Uncertain States and Optimal Sensor Locations. 2014, 8, 1140-1153	35
1888	Power System State Estimation Under Incomplete PMU Observability: A Reduced-Order Approach. 2014, 8, 1051-1062	19
1887	A decision tree-based on-line preventive control strategy for power system transient instability prevention. 2014, 45, 176-186	15
1886	Using the advanced DMS functions to handle the impact of plug-in Electric vehicles on distribution networks. 2014,	1
1885	A new method of enhancing reliability for transmission expansion planning. 2014, 2, 341-349	3
1884	Impacts of the transformation of the German energy system on the transmission grid. 2014, 223, 2561-2575	24
1883	Real time anomaly detection in wide area monitoring of smart grids. 2014,	4
1882	The effect of non-cooperative distributed energy storage on aggregated load profile under real-time pricing. 2014,	
1881	A new successive displacement type load flow algorithm and its application to radial systems. 2014,	0
1880	Cost analysis of reactive power using marginal cost theory in electricity markets. 2014,	1

1879	A distributed control algorithm for the minimization of the power generation cost in smart micro-grid. 2014,	15
1878	Optimal placement and sizing of SVC by using various meta-heuristic optimization methods. 2014,	1
1877	Structured nonconvex optimization of large-scale energy systems using PIPS-NLP. 2014,	21
1876	Grid-constrained optimal predictive power dispatch in large multi-level power systems with renewable energy sources, and storage devices. 2014,	7
1875	Maximin fair Financial Transmission Rights payment-based AC optimal power flow locational marginal price decomposition. 2014, 8, 1724-1732	1
1874	Primal and dual bounds for Optimal Transmission Switching. 2014,	18
1873	Prospects of wave power grid integration. 2014,	1
1872	Optimal operation point in electrical grids using a MOPSO algorithm. 2014,	
1871	Spinning and non-spinning reserve allocation for stochastic security constrained unit Commitment. 2014,	5
1870	Changes in cascading failure risk with generator dispatch method and system load level. 2014,	4
1869	Transmission pricing software for power engineering education. 2014, 22, 410-428	0
1868	Probabilistic load flow incorporating generator reactive power limit violations with spline based reconstruction method. 2014, 106, 203-213	23
1867	A novel margin sensitivity based method for transient stability constrained optimal power flow. 2014, 108, 93-102	6
1866	Stochastic Multiperiod OPF Model of Power Systems With HVDC-Connected Intermittent Wind Power Generation. 2014, 29, 336-344	54
1865	Phasor Measurement Unit Placement for Identifying Power Line Outages in Wide-Area Transmission System Monitoring. 2014,	2
1864	Voltage collapse detection based on local measurements. 2014, 107, 77-84	13
1863	State summation for detecting false data attack on smart grid. 2014, 57, 156-163	21
1862	Modeling Conditional Forecast Error for Wind Power in Generation Scheduling. <i>IEEE Transactions on Power Systems</i> , 2014, 29, 1316-1324	7 145

1861	Power System Reliability Impact of Energy Storage Integration With Intelligent Operation Strategy. 2014 , 5, 1129-1137		87
1860	Detecting False Data Injection Attacks on Power Grid by Sparse Optimization. 2014 , 5, 612-621		256
1859	Modeling and investigation of harmonic losses in optimal power flow and power system locational marginal pricing. 2014 , 68, 140-147		12
1858	Analysing the effects of different types of FACTS devices on the steady-state performance of the Hydro-Québec network. 2014 , 8, 233-249		27
1857	Optimal power flow algorithm and analysis in distribution system considering distributed generation. 2014 , 8, 261-272		36
1856	Comparison of Mixed-Integer Programming and Genetic Algorithm Methods for Distributed Generation Planning. <i>IEEE Transactions on Power Systems</i> , 2014 , 29, 833-843	7	35
1855	A Multi-Objective Transmission Expansion Planning Framework in Deregulated Power Systems With Wind Generation. <i>IEEE Transactions on Power Systems</i> , 2014 , 29, 3003-3011	7	72
1854	Optimal power flow analysis of a Switzerland's transmission system for long-term capacity planning. 2014 , 34, 596-607		26
1853	Application of asymptotic numerical method with homotopy techniques to power flow problems. 2014 , 57, 375-383		14
1852	Data Attack Isolation in Power Networks Using Secure Voltage Magnitude Measurements. 2014 , 5, 14-28		36
1851	Expansion planning for smart transmission grids using AC model and shunt compensation. 2014 , 8, 966-975		35
1850	Dynamic Optimal Power Flow for Active Distribution Networks. <i>IEEE Transactions on Power Systems</i> , 2014 , 29, 121-131	7	185
1849	. 2014 , 62, 3098-3110		20
1848	. 2014 ,		8
1847	Resilience Analysis of Power Grids Under the Sequential Attack. 2014 , 9, 2340-2354		82
1846	Coexistence of phases and the observability of random graphs. 2014 , 89, 022801		3
1845	. <i>IEEE Transactions on Power Systems</i> , 2014 , 29, 1372-1382	7	46
1844	Topology identification in smart grid with limited measurements via convex optimization. 2014 ,		6

1843	Simulating Cyber-Physical Energy Systems: Challenges, Tools and Methods. 2014 , 44, 318-326		85
1842	Optimized bidding area delimitations and their impact on electricity markets and congestion management. 2014 ,		17
1841	Electricity market equilibrium model with voltage constraints. 2014 ,		0
1840	Techno-Economic Assessment of Voltage Control Strategies in Low Voltage Grids. 2014 , 5, 2125-2132		55
1839	Chance-Constrained Optimal Power Flow: Risk-Aware Network Control under Uncertainty. 2014 , 56, 461-495		239
1838	. 2014 , 62, 4052-4063		53
1837	Monitoring for Power-Line Change and Outage Detection in Smart Grid via the Alternating Direction Method of Multipliers. 2014 ,		1
1836	A Linear-Programming Approximation of AC Power Flows. 2014 , 26, 718-734		141
1835	The sequential attack against power grid networks. 2014 ,		14
1834	Integrated Security Analysis on Cascading Failure in Complex Networks. 2014 , 9, 451-463		76
1833	Stochastic Optimal Power Flow with Uncertain Reserves from Demand Response. 2014 ,		29
1832	Impact of pseudo-measurements from new load profiles on state estimation in distribution grids. 2014 ,		6
1831	Efficient Identification Method for Power Line Outages in the Smart Power Grid. <i>IEEE Transactions on Power Systems</i> , 2014 , 29, 1788-1800	7	40
1830	. <i>IEEE Transactions on Power Systems</i> , 2014 , 29, 1972-1980	7	12
1829	Effects of Phasor Measurement Uncertainty on Power Line Outage Detection. 2014 , 8, 1127-1139		23
1828	Ambiguity group based location recognition for multiple power line outages in smart grids. 2014 ,		
1827	GPU-Accelerated Solutions to Optimal Power Flow Problems. 2014 ,		6
1826	Strategic placement of distribution network operator owned wind turbines by using market-based optimal power flow. 2014 , 8, 281-289		15

1825	Transmission management for congested power system: A review of concepts, technical challenges and development of a new methodology. 2014 , 38, 572-580		37
1824	Determination of sectionalising strategies for parallel power system restoration: A spectral clustering-based methodology. 2014 , 116, 381-390		33
1823	Optimal allocation of STATCOM with energy storage to improve power system performance. 2014 ,		1
1822	LMP dependence function of variable parameters of electric power network. 2014 ,		
1821	Assessing the Impact of Incentive Regulation for Innovation on RES Integration. <i>IEEE Transactions on Power Systems</i> , 2014 , 29, 2499-2508	7	26
1820	Probabilistic Small-Disturbance Stability Assessment of Uncertain Power Systems Using Efficient Estimation Methods. <i>IEEE Transactions on Power Systems</i> , 2014 , 29, 2509-2517	7	33
1819	Online semidefinite programming for power system state estimation. 2014 ,		6
1818	Power System Nonlinear State Estimation Using Distributed Semidefinite Programming. 2014 , 8, 1039-1050		65
1817	A risk-averse security-constrained optimal power flow for a power grid subject to hurricanes. 2014 , 116, 408-418		18
1816	Transmission expansion planning considering wholesale electricity market and integration of renewable generation. 2014 ,		3
1815	Coordinated reactive power control to achieve minimal operating costs. 2014 , 63, 1000-1007		10
1814	Investigation of Non-zero Duality Gap Solutions to a Semidefinite Relaxation of the Optimal Power Flow Problem. 2014 ,		18
1813	A Sufficient Condition for Global Optimality of Solutions to the Optimal Power Flow Problem. <i>IEEE Transactions on Power Systems</i> , 2014 , 29, 978-979	7	35
1812	Reduced-Complexity Semidefinite Relaxations of Optimal Power Flow Problems. <i>IEEE Transactions on Power Systems</i> , 2014 , 29, 1855-1863	7	49
1811	Market price signals for customers for compensation of reactive power. 2014 ,		2
1810	A Unified Approach for Power System Predictive Operations Using Viterbi Algorithm. 2014 , 5, 757-766		4
1809	A modified NewtonRaphson load flow scheme for directly including generator reactive power limits using complementarity framework. 2014 , 109, 45-53		9
1808	Systematic Integration Guidance for Alleviating Substation Congestion of Steel Mill Power Systems by Distributed Generation Units. 2014 , 50, 3113-3119		4

1807	Multi-agent control of community and utility using Lagrangian relaxation based dual decomposition. 2014 , 110, 45-54		18
1806	. 2014 , 1, 40-52		335
1805	Localization of FACTS devices for optimal power flow using Genetic Algorithm. 2014 ,		2
1804	Electric Vehicle Charging in Smart Grid: Optimality and Valley-Filling Algorithms. 2014 , 8, 1073-1083		76
1803	Transformer Voltage Regulation Compact Expression Dependent on Tap Position and Primary/Secondary Voltage. 2014 , 29, 1516-1517		14
1802	SGsim: A simulation framework for smart grid applications. 2014 ,		12
1801	Fast approach for transient stability constrained optimal power flow based on dynamic reduction method. 2014 , 8, 1293-1305		16
1800	Adaptive Quickest Estimation Algorithm for Smart Grid Network Topology Error. 2014 , 8, 430-440		12
1799	Quantifying the benefits to consumers for demand response with a statistical elasticity model. 2014 , 8, 503-515		18
1798	. 2014 , 10, 2354-2363		46
1797	Corrective Voltage Control Scheme Considering Demand Response and Stochastic Wind Power. <i>IEEE Transactions on Power Systems</i> , 2014 , 29, 2965-2973	7	114
1796	GPU-based power flow analysis with Chebyshev preconditioner and conjugate gradient method. 2014 , 116, 87-93		31
1795	Two-stage stochastic optimization for optimal power flow under renewable generation uncertainty. 2014 , 24, 1-22		48
1794	Lossy DCOPF for optimizing congested grids with renewable energy and storage. 2014 ,		7
1793	Optimization-Based Islanding of Power Networks Using Piecewise Linear AC Power Flow. <i>IEEE Transactions on Power Systems</i> , 2014 , 29, 1212-1220	7	101
1792	Optimal allocation of photovoltaic systems and energy storages in power systems considering power shortage and surplus. 2014 ,		0
1791	Tuning of a Damping Controller for Multiterminal VSC-HVDC Grids Using the Probabilistic Collocation Method. 2014 , 29, 318-326		51
1790	Stochastic Analysis of Cascading-Failure Dynamics in Power Grids. <i>IEEE Transactions on Power Systems</i> , 2014 , 29, 1767-1779	7	94

1789	Distributed Consensus-Based Economic Dispatch With Transmission Losses. <i>IEEE Transactions on Power Systems</i> , 2014 , 29, 1711-1720	7	259
1788	A novel MIQCP method for FACTS allocation in complex real-world grids. 2014 , 62, 735-743		6
1787	An efficiency oriented model of electricity market in transition period. 2014 , 54, 221-225		2
1786	REI method for multi-area modeling of power systems. 2014 , 60, 283-292		7
1785	Some Efficient Optimization Methods for Solving the Security-Constrained Optimal Power Flow Problem. <i>IEEE Transactions on Power Systems</i> , 2014 , 29, 863-872	7	56
1784	GridMat: Matlab toolbox for GridLAB-D to analyze grid impact and validate residential microgrid level energy management algorithms. 2014 ,		13
1783	Next Generation Transmission Expansion Planning Framework: Models, Tools, and Educational Opportunities. <i>IEEE Transactions on Power Systems</i> , 2014 , 29, 1911-1918	7	27
1782	Power Flow Algorithms for Multi-Terminal VSC-HVDC With Droop Control. <i>IEEE Transactions on Power Systems</i> , 2014 , 29, 1721-1730	7	166
1781	Correcting Optimal Transmission Switching for AC Power Flows. 2014 ,		6
1780	Real time probabilistic power system state estimation. 2014 , 62, 383-390		6
1779	Smart Grid Vulnerability under Cascade-Based Sequential Line-Switching Attacks. 2014 ,		
1778	Optimal Power Flow model with energy storage, an extension towards large integration of renewable energy sources.. 2014 , 47, 9456-9461		6
1777	Line outage detection in power transmission networks via message passing algorithms. 2014 ,		14
1776	Consensus-based Approach for the Economic Dispatch Problem. 2014 , 47, 3140-3145		6
1775	Star-Delta Switches Evaluation for Use in Grid-Connected Wind Farm Installations. 2014 , 6, 893183		
1774	Dynamic joint outage identification and state estimation in power systems. 2014 ,		3
1773	Critical slowing-down as indicator of approach to the loss of stability. 2014 ,		3
1772	Dynamic economic dispatch among strategic generators with storage systems. 2014 ,		2

1771	Research on a fast algorithm of model predictive control. 2014,	
1770	Nonlinear complementarity formulation for including generator Q limits directly into the Newton Raphson load flow method. 2014,	1
1769	On cascading failures and countermeasures based on energy storage in the smart grid. 2014,	6
1768	Nested performance bounds and approximate solutions for the sensor placement problem. 2014, 3,	5
1767	Adaptive System Protection Scheme using Generalized Pattern Search. 2015,	2
1766	Risk informed design modification of dynamic thermal rating system. 2015, 9, 2697-2704	30
1765	Fast decoupled state estimation based on current equations. 2015,	0
1764	Improved modelling of demand and generation in high resolution simulations of interconnected power systems. 2015,	4
1763	Solution of optimal power flow problems using moment relaxations augmented with objective function penalization. 2015,	13
1762	Probabilistic assessment of the impact of dispersed generation on voltage quality. 2015,	
1761	Evaluation of interactions between multiple grid operators based on sparse grid knowledge in context of a smart grid co-simulation environment. 2015,	10
1760	Smart grid data injection attacks: To defend or not?. 2015,	6
1759	Rate of convergence analysis of a dual fast gradient method for general convex optimization. 2015,	1
1758	DuQuad: A toolbox for solving convex quadratic programs using dual (augmented) first order algorithms. 2015,	4
1757	Facilitating distribution grid network simulation through automated common information model data conversion. 2015,	0
1756	Symmetrica: test case for transportation electrification research. 2015, 2,	16
1755	Robust dispatch with power flow routing and renewables. 2015,	
1754	Elimination of transmission system overloads through branch switching. 2015,	

1753	Multi-objective transmission reinforcement planning approach for analysing future energy scenarios in the Great Britain network. 2015 , 9, 2060-2068	3
1752	Electric power network planning based on multi-object optimization model. 2015 ,	
1751	Power flow method using a dedicated mixed-signal hardware platform. 2015 ,	2
1750	. 2015 ,	16
1749	Application of Swarm Mean-Variance Mapping Optimization on location and tuning damping controllers. 2015 ,	2
1748	Determining reserve requirements in systems with significant stochastic generation capacity using copulas. 2015 ,	
1747	Multi-threading based parallel dynamic simulator for transient behavior analysis of power systems. 2015 ,	
1746	A distributed approach to the OPF problem. 2015 , 2015,	28
1745	Two partitioning methods for multi-area studies in large power systems. 2015 , 25, 648-660	12
1744	Controlled islanding of power systems using label propagation. 2015 , 10, 256-261	5
1743	Dispatching thermal power plants under water constraints. 2015 ,	1
1742	A risk-aware generation dispatch including wind power for a power grid subjected to hurricanes. 2015 , 25, 2982-3003	4
1741	Topological performance measures as surrogates for physical flow models for risk and vulnerability analysis for electric power systems. 2015 , 35, 608-23	46
1740	Economic Impact Assessment of Wind Power Integration: A Quasi-Public Goods Property Perspective. 2015 , 8, 8749-8774	4
1739	Cyber Risk Assessment of Transmission Lines in Smart Grids. 2015 , 8, 13796-13810	9
1738	High Resolution Modeling of the Impacts of Exogenous Factors on Power Systems Case Study of Germany. 2015 , 8, 14168-14181	2
1737	Green Power Grids: How Energy from Renewable Sources Affects Networks and Markets. 2015 , 10, e0135312	21
1736	Fuzzy Power Flow Based on Fuzzilized Matpower. 2015 , 719-720, 615-621	

1735	Development of an open source power flow software for high voltage direct current grids and hybrid AC/DC systems: MATACDC. 2015 , 9, 966-974		39
1734	Enhancement of Transmission System Loadability During Contingency by Optimal Allocation of FACTS Devices Using Particle Swarm Optimization. 2015 , 381-392		
1733	An investment decision model for the optimal placement of phasor measurement units. 2015 , 42, 7276-7284	15	
1732	A Dynamic Risk-Constrained Bidding Strategy for Generation Companies Based on Linear Supply Function Model. 2015 , 9, 1463-1474		14
1731	Optimal power flow for a deregulated power system using adaptive real coded biogeography-based optimization. 2015 , 73, 393-399		85
1730	Joint Cyber and Physical Attacks on Power Grids. 2015 ,		16
1729	A Detailed Power System Planning Model: Estimating the Long-Run Impact of Carbon-Reducing Policies. 2015 ,		4
1728	Real-Time Modeling and Control of Electric Vehicles Charging Processes. 2015 , 6, 1375-1385		26
1727	A component-based approach for modeling failure propagations in power systems. 2015 ,		0
1726	Discussion on Interval Power Flow Analysis Using Linear Relaxation and Optimality-Based Bounds Tightening (OBBT) Methods <i>IEEE Transactions on Power Systems</i> , 2015 , 30, 2202-2202	7	1
1725	Evaluating the performance of decentralized analyses of voltage stability and power flows. 2015 ,		1
1724	Are locational marginal prices a good heuristic to divide energy market into bidding zones?. 2015 ,		1
1723	GPU-based two-step preconditioning for conjugate gradient method in power flow. 2015 ,		6
1722	. 2015 ,		10
1721	A differential analysis of the power flow equations. 2015 ,		10
1720	An overlapping distributed state estimation and detection method in smart grids. 2015 ,		
1719	Analysis of the effects of distributed generation sources on power grid reliability. 2015 ,		0
1718	Dynamic optimal power flow including energy storage with adaptive operation costs. 2015 ,		2

1717	Cyber-physical testbed [The impact of cyber attacks and the human factor. 2015,	6
1716	Robust generation dispatch with wind power considering air pollutant dispersion. 2015,	2
1715	Multi-step network segmentation using optimization and sequential participant migration. 2015,	3
1714	A risk assessment approach for dispatching operations based on critical equipment search. 2015,	
1713	A Consumer Behavior Based Approach to Multi-Stage EV Charging Station Placement. 2015,	12
1712	. 2015,	13
1711	Methodology for optimal bus placement to integrate wind farm optimizing power flows. 2015,	0
1710	Nonsmooth optimization for optimal power flow over transmission networks. 2015,	3
1709	Operating beyond today's PV curves: Challenges and potential benefits. 2015,	4
1708	A Benchmark Analysis of Open Source Transportation-Electrification Simulation Tools. 2015,	11
1707	Adaptive barrier filter-line-search interior point method for optimal power flow with FACTS devices. 2015, 9, 2792-2798	16
1706	Optimal placement and sizing of Static Var Compensator using Cuckoo search algorithm. 2015,	2
1705	Bus.py: A GridLAB-D communication interface for Smart distribution Grid simulations. 2015,	10
1704	Data-driven optimization approaches for optimal power flow with uncertain reserves from load control. 2015,	7
1703	. 2015,	
1702	. 2015,	1
1701	Equivalent ramp rate function for thermal power systems. 2015,	0
1700	Dynamic probabilistic risk assessment of cascading outages. 2015,	0

1699	Network design tool for the optimal design of offshore ocean energy array networks. 2015,		1
1698	A robust and efficient power series method for tracing PV curves. 2015,		1
1697	Sensitivity-based line outage angle factors. 2015,		1
1696	Approximate method for AC transmission switching based on a simple relaxation for ACOPF problems. 2015,		7
1695	Capacitor siting using benders decomposition. 2015,		
1694	Estimating Cascading Failure Risk With Random Chemistry. <i>IEEE Transactions on Power Systems,</i> 2015, 30, 2726-2735	7	42
1693	Modeling of Italian ancillary services market: Sicilian case study. 2015,		2
1692	Strategic bidding by a risk-averse firm with a portfolio of renewable resources. 2015,		
1691	GPU-based Static State Security Analysis in Power Systems. 2015, 258-267		
1690	SmartBuilds: An energy and power simulation framework for buildings and districts. 2015,		1
1689	The optimal planning and dynamic operation of distributed generation method based on modified multiobjective optimization in power distribution system. 2015,		2
1688	Strategic generation bidding using a learning algorithm through updates of supply offer selection propensities. 2015,		
1687	A new schedule-controlled strategy for charging large number of EVs with load shifting and voltage regulation. 2015,		2
1686	Comparative study between two market clearing schemes in wind dominant electricity markets. 2015, 9, 2215-2223		1
1685	A data mining approach for real-time corrective switching. 2015,		
1684	Impact of value of lost load on performance of reliability criteria and reliability management. 2015,		2
1683	Smart grid topology identification using sparse recovery. 2015,		4
1682	Distributed Optimal generation Dispatch considering transmission losses. 2015,		4

1681	Simulation-based approach for investigating the impact of electric vehicles on power grids. 2015 ,	6	
1680	Investigating the effects of grid equivalent circuit at a point of common coupling on bus voltage variations due to variable distributed generation. 2015 ,	1	
1679	Zoning reconfiguration for coordinated voltage regulation in future transmission grids. 2015 ,	0	
1678	. 2015 , 1-10	52	
1677	Probabilistic optimal power flow using unscented transformation. 2015 ,	3	
1676	Online bad data detection using kernel density estimation. 2015 ,	9	
1675	. 2015 , 6, 759-766	17	
1674	. 2015 , 6, 1219-1226	180	
1673	Reliability-based nodal evaluation and prioritization of demand response programs. 2015 , 25, 3384-3407	14	
1672	A fault diagnosis system for interdependent critical infrastructures based on HMMs. 2015 , 138, 73-81	22	
1671	Vulnerability assessment of the power grid against progressing wildfires. 2015 , 73, 20-28	34	
1670	Detection of Integrity Attacks in Cyber-Physical Critical Infrastructures Using Ensemble Modeling. 2015 , 11, 104-111	69	
1669	Application of the Moment-SOS Approach to Global Optimization of the OPF Problem. <i>IEEE Transactions on Power Systems</i> , 2015 , 30, 463-470	7	65
1668	. 2015 , 6, 1686-1696	124	
1667	Energy storage for PV power plant dispatching. 2015 , 80, 61-72	43	
1666	. <i>IEEE Transactions on Power Systems</i> , 2015 , 30, 2338-2348	7	26
1665	. <i>IEEE Transactions on Power Systems</i> , 2015 , 30, 531-539	7	76
1664	Joint Substation-Transmission Line Vulnerability Assessment Against the Smart Grid. 2015 , 10, 1010-1024	36	

1663	Risk-Based Management of Overloads Caused by Power Injection Uncertainties Using Power Flow Controlling Devices. <i>IEEE Transactions on Power Systems</i> , 2015 , 30, 3082-3092	7	10
1662	Optimal power flow of a distribution system based on increasingly tight cutting planes added to a second order cone relaxation. 2015 , 69, 9-17		35
1661	Abruptness of cascade failures in power grids. 2014 , 4, 3694		93
1660	Modeling and Simulation of Network Aspects for Distributed Cyber-Physical Energy Systems. 2015 , 1-23		5
1659	. 2015 , 6, 2519-2528		9
1658	Transmission Contingency Analysis Based on Integrated Transmission and Distribution Power Flow in Smart Grid. <i>IEEE Transactions on Power Systems</i> , 2015 , 30, 3356-3367	7	45
1657	Simulation and Modeling Methodologies, Technologies and Applications. 2015 ,		
1656	Distributed Series Static Compensator Deployment Using a Linearized Transmission System Model. 2015 , 30, 1269-1277		10
1655	Comparative analysis of existing models for power-grid synchronization. 2015 , 17, 015012		134
1654	Cuckoo Optimization Algorithm for Optimal Power Flow. 2015 , 479-493		8
1653	Electric Power Engineering Research and Education. 2015 ,		1
1652	Flexible implementation of power system corrective topology control. 2015 , 128, 79-89		30
1651	Area equivalents for spinning reserve determination in interconnected power systems. 2015 , 88, 907-916		9
1650	Particle Swarm Optimization for the Minimization of Power Losses in Distribution Networks. 2015 ,		3
1649	Multi-stage coupon incentive-based demand response in two-settlement electricity markets. 2015 ,		6
1648	Optimal selected phasor measurement units for identifying multiple line outages in smart grid. 2015 ,		4
1647	Is Deferrable Demand an Effective Alternative to Upgrading Transmission Capacity?. 2015 , 141,		2
1646	Location matters: The impact of renewable power on transmission congestion and emissions. 2015 , 86, 1-16		28

1645	Zoning Evaluation for Improved Coordinated Automatic Voltage Control. <i>IEEE Transactions on Power Systems</i> , 2015 , 30, 2736-2746	7	23
1644	Numerical bifurcation and its application in computation of available transfer capability. 2015 , 252, 568-574		4
1643	Distributed Power System State Estimation Using Factor Graphs. 2015 , 63, 2864-2876		29
1642	Consensus on State and Time: Decentralized Regression With Asynchronous Sampling. 2015 , 63, 2972-2985	7	
1641	Fast economic power dispatch method for power system planning studies. 2015 , 9, 417-426		27
1640	Using the gray wolf optimizer for solving optimal reactive power dispatch problem. 2015 , 32, 286-292		223
1639	Blackout risk prevention in a smart grid based flexible optimal strategy using Grey Wolf-pattern search algorithms. 2015 , 98, 411-429		66
1638	Generation bidding game with potentially false attestation of flexible demand. 2015 , 2015,		2
1637	. 2015 , 6, 1924-1933		40
1636	Multi-Area DC-OPF for HVAC and HVDC Grids. <i>IEEE Transactions on Power Systems</i> , 2015 , 30, 2450-2459	7	32
1635	Optimal use of energy storage systems with renewable energy sources. 2015 , 71, 101-111		15
1634	Evaluation of Wind Power Curtailment in Active Network Management Schemes. <i>IEEE Transactions on Power Systems</i> , 2015 , 30, 672-679	7	22
1633	Detection of False Data Injection Attacks in Smart Grid Communication Systems. 2015 , 22, 1652-1656		112
1632	Characterisation of large disturbance rotor angle and voltage stability in interconnected power networks with distributed wind generation. 2015 , 9, 272-283		29
1631	STATCOM Application for Decentralized Secondary Voltage Control of Transmission Networks. 2015 , 531-556		
1630	Cyber Security Analysis of Power Networks by Hypergraph Cut Algorithms. 2015 , 6, 2189-2199		11
1629	The effect of demand response on distribution system operation. 2015 ,		10
1628	Risk-based optimal power flow with probabilistic guarantees. 2015 , 72, 66-74		18

1627	Stochastic security constrained unit commitment and non-spinning reserve allocation with performance guarantees. 2015 , 72, 109-115	17
1626	Using deferrable demand in a smart grid to reduce the cost of electricity for customers. 2015 , 47, 239-272	11
1625	Energy-saving generation dispatch toward a sustainable electric power industry in China. 2015 , 83, 14-25	36
1624	Analysis of the effect of voltage level requirements on an electricity market equilibrium model. 2015 , 71, 93-100	3
1623	Modelling of corrective actions in power system reliability analysis. 2015 ,	6
1622	On-demand state estimation with sampling time skew in power systems. 2015 ,	2
1621	Carbon Emission Flow From Generation to Demand: A Network-Based Model. 2015 , 6, 2386-2394	52
1620	. 2015 , 1-1	41
1619	Identification of Unavoidable Branch Limit Violations Due to Wind Forecast Errors. 2015 , 6, 1399-1408	2
1618	General Relativity Search Algorithm: A Global Optimization Approach. 2015 , 14, 1550017	13
1617	Enhanced risk-based SCOPF formulation balancing operation cost and expected voluntary load shedding. 2015 , 128, 151-155	14
1616	Optimal operation of a low-voltage distribution network with renewable distributed generation by NaS battery and demand response strategy: a case study in a trial site. 2015 , 9, 549-556	11
1615	Wind farm polymerization influences on security and economic operation in power system based on Copula function. 2015 , 3, 381-392	3
1614	Global capacity announcement of electrical distribution systems: A pragmatic approach. 2015 , 4, 43-53	3
1613	A unified platform enabling power system circuit model data transfer among different software. 2015 ,	2
1612	Distributed DC Optimal Power Flow for radial networks through partial Primal Dual algorithm. 2015 , ,	8
1611	On efficient computation of time constrained optimal power flow in rectangular form. 2015 ,	9
1610	Security constrained Optimal Power Flow for mixed AC and multi-terminal HVDC grids. 2015 ,	18

1609	Decision support for restoration of interconnected power systems using tie lines. 2015 , 9, 1006-1018	16
1608	MatLVDC: A new open source Matlab toolbox to simulate DC networks including power electronic converters and distributed energy resources. 2015 ,	1
1607	Sectionalising methodology for parallel system restoration based on graph theory. 2015 , 9, 1216-1225	34
1606	Operating Power Grids with Few Flow Control Buses. 2015 ,	3
1605	Increasing On-Shore Wind Generated Electricity in Germany's Transmission Grid. 2015 , 137,	10
1604	Convexity of structure preserving energy functions in power transmission: Novel results and applications. 2015 ,	2
1603	Can Energy Bids from Aggregators Manage Deferrable Demand Efficiently?. 2015 ,	4
1602	. 2015 , 2, 238-253	81
1601	Graph theory based splitting strategies for power system islanding operation. 2015 ,	5
1600	Convex envelopes of optimal power flow with branch flow model in rectangular form. 2015 ,	3
1599	Electric Power Market Experiments with Optimal Topology Control. 2015 ,	1
1598	Sparsity-Exploiting Moment-Based Relaxations of the Optimal Power Flow Problem. <i>IEEE Transactions on Power Systems</i> , 2015 , 30, 3168-3180	7 97
1597	Contribution of Microgrids to distribution network reliability. 2015 ,	13
1596	Multi-period optimization for Voltage Control system in transmission grids. 2015 ,	3
1595	Smart LV distribution networks: An approach for power flow formulation with smart home models. 2015 ,	
1594	Decentralized power system state estimation with reduced inter-area communication. 2015 ,	4
1593	Reactive power control strategy for voltage regulation and power-factor correction in MV distribution networks. 2015 ,	1
1592	Optimal operation of microgrids under conditions of uncertainty. 2015 ,	2

1591	Fully distributed multi-area economic dispatch method for active distribution networks. 2015 , 9, 1341-1351	55
1590	Particle Swarm Optimization Based Optimal Reactive Power Dispatch. 2015 ,	44
1589	A data-driven approach to identifying system pattern regions in market operations. 2015 ,	5
1588	A Constrained Optimization Approach to Dynamic State Estimation for Power Systems Including PMU and Missing Measurements. 2015 , 1-1	40
1587	Risk-Averse Preventive Voltage Control of AC/DC Power Systems Including Wind Power Generation. 2015 , 6, 1494-1505	27
1586	Diversity of cascading failure processes in electrical grids. 2015 ,	2
1585	Network State-Based Algorithm Selection for Power Flow Management Using Machine Learning. <i>IEEE Transactions on Power Systems</i> , 2015 , 30, 2657-2664	7 13
1584	Introduction to Transmission Expansion Planning in Power Systems. 2015 , 155-183	
1583	A robust optimization approach to energy and reserve dispatch in electricity markets. 2015 , 247, 659-671	88
1582	Integrated Modeling and Assessment of the Operational Impact of Power-to-Gas (P2G) on Electrical and Gas Transmission Networks. 2015 , 6, 1234-1244	281
1581	. 2015 , 11, 1-12	141
1580	PMU Data Buffering for Power System State Estimators. 2015 , 2, 94-102	21
1579	Application of compressive sensing for distributed and structured power line outage detection in smart grids. 2015 ,	8
1578	Rapid Assessment, Visualization, and Mitigation of Cascading Failure Risk in Power Systems. 2015 ,	3
1577	Matpower Based Power Flow Calculation with Grid-Connected Photovoltaic. 2015 , 713-715, 1343-1346	1
1576	OPGrid: Steady state analysis toolbox for systems with embedded FACTS and Droop-based devices. 2015 ,	
1575	A modular AC optimal power flow implementation for distribution grid planning. 2015 ,	1
1574	Economic cost-benefit analysis for power system operations with environmental considerations. 2015 ,	0

1573	Large-scale PV integration strategies in distribution grids. 2015 ,	7	
1572	Investigation of schemes for incorporating generator Q limits in the fast decoupled load flow method. 2015 , 40, 1155-1168		
1571	Impact of control approaches for building energy systems on distribution grid state. 2015 ,		
1570	Market Mechanisms for Buying Random Wind. 2015 , 6, 1615-1623	17	
1569	Preemptive network reinforcement at LV level considering uncertainty in prediction of PV penetration scenarios. 2015 ,	2	
1568	Comparison of power system simulation tools with load flow study cases. 2015 ,	4	
1567	PMU based Robust Dynamic State Estimation method for power systems. 2015 ,	1	
1566	An extension of metric temporal planning with application to AC voltage control. 2015 , 229, 210-245	5	
1565	Distributed Feasibility Algorithms with Application to Power Flow Problems. 2015 , 48, 197-202		
1564	New multivariate linear regression real and reactive branch flow models for volatile scenarios. 2015 ,		
1563	Optimal assignment of the battery for the power system by the response surface method with the radial basis function networks. 2015 ,	1	
1562	Optimal assignment of the battery for the power system considering the voltage stability under the penetration of the renewable energy sources. 2015 ,	2	
1561	Capacity-based service restoration using Multi-Agent technology and ensemble learning. 2015 ,	2	
1560	Measurement based static load model identification. 2015 ,	4	
1559	Information Gap Decision Theory Based OPF With HVDC Connected Wind Farms. <i>IEEE Transactions on Power Systems</i> , 2015 , 30, 3396-3406	7	82
1558	Investigating Wireless Charging and Mobility of Electric Vehicles on Electricity Market. 2015 , 62, 3123-3133		60
1557	Probabilistic Risk Assessment of Rotor Angle Instability Using Fuzzy Inference Systems. <i>IEEE Transactions on Power Systems</i> , 2015 , 30, 1747-1757	7	9
1556	Identification of vulnerable node clusters against false data injection attack in an AMI based Smart Grid. 2015 , 53, 201-212		50

1555	Event triggered state estimation techniques for power systems with integrated variable energy resources. 2015 , 56, 165-72		14
1554	Risk assessment and risk-cost optimization of distributed power generation systems considering extreme weather conditions. 2015 , 136, 47-61		56
1553	A two-phase investment model for optimal allocation of phasor measurement units considering transmission switching. 2015 , 119, 492-498		10
1552	Introducing a Novel DC Power Flow Method With Reactive Power Considerations. <i>IEEE Transactions on Power Systems</i> , 2015 , 30, 3012-3023	7	45
1551	A combined AC/DC optimal power flow algorithm for meshed AC and DC networks linked by VSC converters. 2015 , 25, 2024-2035		17
1550	Power-System Reliability Impact of Energy-Storage Integration with Intelligent-Operation Strategy. 2015 , 229-247		0
1549	Reduction of PTDF matrix and its application in DC optimal power flow. 2015 , 25, 1848-1859		5
1548	Distributed Reactive Power Feedback Control for Voltage Regulation and Loss Minimization. 2015 , 60, 966-981		135
1547	Particle Filter Approach to Dynamic State Estimation of Generators in Power Systems. <i>IEEE Transactions on Power Systems</i> , 2015 , 30, 2665-2675	7	58
1546	Evaluating the Benefits of Optimal Allocation of Wind Turbines for Distribution Network Operators. 2015 , 9, 629-638		18
1545	. 2015 , 30, 590-598		33
1544	Solving security constrained optimal power flow problems by a structure exploiting interior point method. 2015 , 16, 49-71		10
1543	Cascading Failure Analysis With DC Power Flow Model and Transient Stability Analysis. <i>IEEE Transactions on Power Systems</i> , 2015 , 30, 285-297	7	112
1542	A Probabilistic Risk Mitigation Model for Cyber-Attacks to PMU Networks. <i>IEEE Transactions on Power Systems</i> , 2015 , 30, 156-165	7	57
1541	Efficient Location Identification of Multiple Line Outages With Limited PMUs in Smart Grids. <i>IEEE Transactions on Power Systems</i> , 2015 , 30, 1659-1668	7	26
1540	. <i>IEEE Transactions on Power Systems</i> , 2015 , 30, 1727-1738	7	17
1539	. <i>IEEE Transactions on Power Systems</i> , 2015 , 30, 2790-2799	7	106
1538	Economic Dispatch With Non-Smooth ObjectivesPart II: Dimensional Steepest Decline Method. <i>IEEE Transactions on Power Systems</i> , 2015 , 30, 722-733	7	32

1537	Evaluating the Impact of Registered Power Zones Incentive on Wind Systems Integration in Active Distribution Networks. 2015 , 11, 523-530		8
1536	Power Distribution Network Expansion Planning Considering Distribution Automation. <i>IEEE Transactions on Power Systems</i> , 2015 , 30, 1261-1269	7	47
1535	Assessment of maximum distributed generation penetration levels in low voltage networks using a probabilistic approach. 2015 , 64, 505-515		35
1534	A Decomposition Approach for Solving Seasonal Transmission Switching. <i>IEEE Transactions on Power Systems</i> , 2015 , 30, 1203-1211	7	20
1533	Improved group search optimization method for optimal power flow problem considering valve-point loading effects. 2015 , 148, 229-239		22
1532	A directional control method for interface flow considering static voltage stability. 2015 , 64, 176-184		1
1531	A Model for Wind Turbines Placement Within a Distribution Network Acquisition Market. 2015 , 11, 210-219		26
1530	Decentralized unscented Kalman filter based on a consensus algorithm for multi-area dynamic state estimation in power systems. 2015 , 65, 26-33		67
1529	Monte Carlo simulation-based probabilistic assessment of DG penetration in medium voltage distribution networks. 2015 , 64, 852-860		65
1528	. 2015 , 6, 291-300		50
1527	Real-Time Detection of False Data Injection in Smart Grid Networks: An Adaptive CUSUM Method and Analysis. 2016 , 10, 532-543		100
1526	Optimal Allocation of Photovoltaic Systems and Energy Storage Systems Considering Uncertainties in the Outputs of Photovoltaics and the Capabilities of Demand Response. 2016 , 2016, 351-357		
1525	Impact of Degraded Communication on Interdependent Power Systems: The Application of Grid Splitting. 2016 , 5, 49		4
1524	Gaussian Mixture Modeling for Detecting Integrity Attacks in Smart Grids. 2016 , 5, 82		2
1523	Sensitivity-Based Model of Low Voltage Distribution Systems with Distributed Energy Resources. 2016 , 9, 801		21
1522	Automated operation approach for embedded HVDC links during (N-1)-conditions in the AC system. 2016 ,		2
1521	Power wheeling cost evaluation under contingency condition using tracing method. 2016 ,		
1520	Average State Kalman Filters for Large-scale Stochastic Networked Linear Systems. 2016 , 52, 419-427		

1519	Resilient decentralized consensus-based state estimation for smart grid in presence of false data. 2016,	12
1518	Convex Relaxations of Optimal Power Flow Problems: An Illustrative Example. 2016, 63, 650-660	30
1517	. 2016,	1
1516	Enhancement of Maximum Loadability during N-1 and N-2 contingencies with multi type FACTS devices and its optimization using MDE algorithm. 2016,	2
1515	Identifying price zones using nodal prices and supply & demand weighted nodes. 2016,	4
1514	Optimal partitioning of secondary grid networks to reduce load shed under second contingency. 2016,	
1513	Series PMU data-based state estimation technique for WAMS application. 2016,	0
1512	. 2016,	1
1511	psst: An open-source power system simulation toolbox in Python. 2016,	3
1510	MTD-inspired state estimation based on random measurements selection. 2016,	2
1509	Classifying day-ahead electricity markets using pattern recognition for demand response. 2016,	0
1508	Local voltage control in distribution networks: A game-theoretic perspective. 2016,	12
1507	Coordinated tuning of PSS and TCSC-POD controller using an Elite Genetic Algorithm. 2016,	1
1506	System-Level Simulation for Future Smart Grids. 2016, 1-19	
1505	Implementation of a distribution state estimation algorithm on a low voltage test facility with distributed energy resources. 2016,	5
1504	Optimal power flow with demand participation of RESs. 2016,	0
1503	Power system state estimation using wire temperature measurements for model accuracy enhancement. 2016,	3
1502	Optimal voltage control for loss minimization based on sequential convex programming. 2016,	

1501	Joint cyber and physical attacks against topology of electric grids. 2016,	1
1500	Congestion management in smart grids with flexible demand considering the payback effect. 2016,	3
1499	OpenBuildNet framework for distributed co-simulation of smart energy systems. 2016,	2
1498	Hybrid optimization algorithm to the problem of Distributed Generation power losses. 2016,	4
1497	Securing Power System State Estimation. 2016,	0
1496	Modeling and tracking Transmission Line Dynamic Behavior in Smart Grids using structured sparsity. 2016,	2
1495	. 2016,	2
1494	Reliability enhancements from Demand Response considering interrupted energy assessment rates. 2016,	1
1493	Evaluation of locational marginal pricing of electricity under peak and off-peak load conditions. 2016,	1
1492	Detection of false data injection attacks in smart grid under colored Gaussian noise. 2016,	15
1491	Optimal power flow application to EHVAC interconnections for GW-sized Offshore Wind Farms. 2016,	1
1490	Application of AHP method for optimal location of SSSC device under different operating conditions. 2016,	0
1489	Gaming Experiments for Analysis of Pricing Mechanisms at Electricity Markets. 2016, 49, 13-18	3
1488	Robust false data injection attacks in electricity markets by limited adversaries. 2016,	3
1487	Design of an algorithm to deliver demand side flexibility from aggregated resources to distribution system operators. 2016,	1
1486	A hybrid CMA-ES approach for distributed grid compliant energy scheduling. 2016,	1
1485	Experiences integrating transmission and distribution simulations for DERs with the Integrated Grid Modeling System (IGMS). 2016,	14
1484	An incremental local algorithm for better voltage control in distribution networks. 2016,	6

1483	Stochastic AC optimal power flow with affine recourse. 2016,	6
1482	Least-Trimmed-Absolute-Value algorithm for robust power system state estimation. 2016,	0
1481	An AC-QP optimal power flow algorithm considering wind forecast uncertainty. 2016,	3
1480	Volt-VAR interaction evaluation in bulk power systems. 2016,	1
1479	Augmenting the optimal power flow for stability. 2016,	1
1478	Robust OPF considering load and renewable power uncertainties in multi-terminal HVDC grids. 2016,	2
1477	Valuation of stored energy in dynamic optimal power flow of distribution systems with energy storage. 2016,	2
1476	Computation of loadability limit in power system based on newton-bisection algorithm. 2016,	3
1475	Optimal energy management of low level multi-carrier distribution grids. 2016,	3
1474	A resilient power system operation strategy considering presumed attacks. 2016,	1
1473	A dynamic programming-based heuristic approach for optimal transmission switching problem with N-1 reliability criterion. 2016,	5
1472	Combined data integrity and availability attacks on state estimation in cyber-physical power grids. 2016,	8
1471	Estimation of smart grid topology using SCADA measurements. 2016,	7
1470	Multiobjective optimization in congestion management considering technical and economic aspects. 2016,	2
1469	Identification of Power Line Outages Based on PMU Measurements and Sparse Overcomplete Representation. 2016,	10
1468	Optimal power flow with worst-case scenarios considering uncertainties of loads and renewables. 2016,	0
1467	Optimal reactive power management for transmission connected distribution grid with wind farms. 2016,	5
1466	A graphical approach to quickest outage localization in power grids. 2016,	1

1465	Dynamic optimal power flow in AC networks with multi-terminal HVDC and energy storage. 2016,	4
1464	Graphic-based optimal network reconfiguration in CPU/GPU architectures using AGA-LS metaheuristics. 2016,	
1463	Stealthy and blind false injection attacks on SCADA EMS in the presence of gross errors. 2016,	12
1462	Multiple line outage detection for smart grid: A block-wise compressive sensing perspective. 2016,	
1461	Fast forecasting uncontrolled network separation in smart grid environment. 2016,	0
1460	A hierarchical approach of node aggregation for transmission usage prices. 2016,	2
1459	Assessing power system state estimation accuracy with GPS-spoofed PMU Measurements. 2016,	3
1458	Optimal power flow using self-learning cuckoo search algorithm. 2016,	1
1457	Impact of uncertainty from load-based reserves and renewables on dispatch costs and emissions. 2016,	1
1456	Simulation of equal incremental rate continuous time-varying optimal microgrid power distribution method. 2016,	
1455	Evaluation of the performance of space reduction technique using AC and DC models in Transmission Expansion problems. 2016,	4
1454	Stochastic modelling of distribution networks operation. 2016,	
1453	Impact of increased penetration of large-scale PV generation on short-term stability of power systems. 2016,	2
1452	Power system state estimation via feasible point pursuit. 2016,	4
1451	Using optimized flow based market capacity indices in TSO investment evaluation. 2016,	
1450	. 2016,	3
1449	Distributionally robust risk-constrained optimal power flow using moment and unimodality information. 2016,	13
1448	Cost-Benefit Analysis of Battery Storage System for Voltage Compliance in Distribution Grids with High Distributed Generation. 2016, 99, 215-228	11

1447	Analysis of Infeasible Cases in Optimal Power Flow Problem. 2016 , 49, 23-28	4
1446	A study on the sensitivity matrix in power system state estimation by using sparse principal component analysis. 2016 ,	1
1445	Retrofitting state feedback control of networked nonlinear systems based on hierarchical expansion. 2016 ,	4
1444	Error bounds on the DC power flow approximation: A convex relaxation approach. 2016 ,	22
1443	A distributed approach for the optimal power flow problem. 2016 ,	
1442	Solving coordinated voltage optimization in distribution network based on a robust sequential quadratic programming algorithm. 2016 ,	
1441	Power-flow simulation with visualization function based on IEEE common data format. 2016 ,	0
1440	Weak resilience of networked control systems. 2016 ,	
1439	Multi-agent System for Detecting False Data Injection Attacks Against the Power Grid. 2016 ,	1
1438	Adaptive certainty-equivalent approach for optimal generator dispatch under uncertainty. 2016 ,	3
1437	A dynamic programming approach to optimal load shedding control of cascading failure in DC power networks. 2016 ,	4
1436	A computational method for optimizing storage placement to maximize power network reliability. 2016 ,	3
1435	Distribution network reconfiguration problem for energy loss minimization with variable load. 2016 ,	0
1434	An optimal reactive power dispatch (ORPD) for voltage security using particle swarm optimization (PSO) in graph theory. 2016 ,	5
1433	Bidding strategy for virtual power plant with intraday demand response exchange market using stochastic programming. 2016 ,	7
1432	Linear approximated formulation of AC optimal power flow using binary discretisation. 2016 , 10, 1117-1123	51
1431	A Chance-constrained Optimization Model for Determining Renewables Penetration Limit in Power Systems. 2016 , 44, 701-712	6
1430	Strong SOCP Relaxations for the Optimal Power Flow Problem. 2016 , 64, 1177-1196	135

1429	An introduction to optimal power flow: Theory, formulation, and examples. 2016 , 48, 1172-1197	90
1428	Identification of voltage stability critical injection region in bulk power systems based on the relative gain of voltage coupling. 2016 , 10, 1495-1503	15
1427	Probabilistic load flow calculation using cumulants and multiple integrals. 2016 , 10, 1703-1709	28
1426	A New Outage Coordination: SMaRTS Model. 2016 ,	
1425	A novel method for evaluating the impact of residential demand response in a real time distribution energy market. 2016 , 7, 533-545	5
1424	Lift-and-project MVEE based convex hull for robust SCED with wind power integration using historical data-driven modeling approach. 2016 , 92, 415-427	19
1423	Preserving Privacy of AC Optimal Power Flow Models in Multi-Party Electric Grids. 2016 , 7, 2050-2060	8
1422	Data-Driven Stealthy Injection Attacks on Smart Grid with Incomplete Measurements. 2016 , 180-192	18
1421	Behavior analysis of wind power producer in electricity market. 2016 , 171, 325-335	35
1420	Optimal Power Flow with Random Wind Resources. 2016 ,	
1419	Masking Transmission Line Outages via False Data Injection Attacks. 2016 , 11, 1592-1602	62
1418	A Large-Deviation-Based Splitting Estimation of Power Flow Reliability. 2016 , 26, 1-26	10
1417	Opportunistic spectrum access enabled heterogeneous wireless networking for smart grid. 2016 ,	1
1416	Quick and effective multiple contingency screening algorithm based on long-tailed distribution. 2016 , 10, 257-262	4
1415	A review of computer tools for modeling electric vehicle energy requirements and their impact on power distribution networks. 2016 , 172, 337-359	60
1414	Automatic identification of integrity attacks in cyber-physical systems. 2016 , 58, 164-173	36
1413	Energy management system for enhanced resiliency of microgrids during islanded operation. 2016 , 137, 133-141	81
1412	Modelling demand response in organized wholesale energy markets. 2016 , 31, 1064-1088	1

1411	Robust Co-Optimization to Energy and Ancillary Service Joint Dispatch Considering Wind Power Uncertainties in Real-Time Electricity Markets. 2016 , 7, 1547-1557	48
1410	Identification of critical generating units for maintenance: a game theory approach. 2016 , 10, 2942-2952	13
1409	A novel approach using flexible scheduling and aggregation to optimize demand response in the developing interactive grid market architecture. 2016 , 183, 445-455	37
1408	State estimation of medium voltage distribution networks using smart meter measurements. 2016 , 184, 207-218	56
1407	Balanced, non-contiguous partitioning of power systems considering operational constraints. 2016 , 140, 456-463	7
1406	Corrective Control to Handle Forecast Uncertainty: A Chance Constrained Optimal Power Flow. <i>IEEE Transactions on Power Systems</i> , 2016 , 1-1	7 42
1405	Fault Location Observability using Phasor Measurements Units via Semidefinite Programming. 2016 , 4, 5187-5195	15
1404	Energy storage systems and distribution grids: A real case study in Italy. 2016 ,	3
1403	Valorization of demand response for voltage control in MV distribution grids with distributed generation. 2016 ,	2
1402	Distributed scenario-based optimization for asset management in a hierarchical decision making environment. 2016 ,	4
1401	Probabilistic impact of transmission line switching on power system operating states. 2016 ,	6
1400	Robust optimal transmission switching with the consideration of corrective actions for N-1 contingencies. 2016 , 10, 3288-3295	19
1399	An improved load-shedding model based on power flow tracing. 2016 ,	2
1398	Optimal allocation of smart metering systems for enhanced distribution system state estimation. 2016 ,	5
1397	Risk-averse multi-objective generation dispatch considering transient stability under load model uncertainty. 2016 , 10, 2785-2791	13
1396	Multiarea state estimation with legacy and synchronized measurements. 2016 ,	1
1395	On decentralized robust weight control for DC power networks. 2016 ,	1
1394	. 2016 ,	14

1393	A stochastic control formulation of the continuous-time power system operation problem. 2016,		
1392	A parallel primal-dual interior-point method for DC optimal power flow. 2016,	9	
1391	Multi-period AC-QP optimal power flow including storage. 2016,	3	
1390	Tight LP approximations for the optimal power flow problem. 2016,	8	
1389	Operation scheduling of prosumer with renewable energy sources and storage devices. 2016,	12	
1388	Loadability analysis during single contingency with FACTS devices using Differential Evolution. 2016,	4	
1387	An Adaptive-Then-Combine Dynamic State Estimation Considering Renewable Generations in Smart Grids. 2016, 34, 3954-3961	22	
1386	Measurement sensitivity analysis of information embedded power systems using ABCD matrices. 2016,		
1385	Robustness of power grid topologies against centrality-based attacks. 2016,	1	
1384	Towards a unified resilience analysis: State estimation against integrity attacks. 2016,	5	
1383	Power flow modeling of hybrid AC/DC systems. 2016, 267-292	0	
1382	PV-integration strategies for low voltage networks. 2016,	6	
1381	Analyzing Vulnerability of Power Systems with Continuous Optimization Formulations. 2016, 3, 132-146	36	
1380	Scenario reduction, network aggregation, and DC linearisation: which simplifications matter most in operations and planning optimisation?. 2016, 10, 2748-2755	10	
1379	. <i>IEEE Transactions on Power Systems</i> , 2016, 1-1	7	60
1378	Optimal power flow based on successive linear approximation of power flow equations. 2016, 10, 3654-3662	61	
1377	Multi-objective optimal power flow considering the system transient stability. 2016, 10, 4213-4221	5	
1376	EVs charging stations in active distribution grids: A real case-study of smart integration. 2016,	1	

1375	Economic analysis, optimal sizing and management of energy storage for PV grid integration. 2016,	8
1374	Optimal day-ahead operational planning of microgrids. 2016, 126, 142-157	21
1373	Coordinated two-stage volt/var management in distribution networks. 2016, 141, 157-164	16
1372	Probabilistic Forecasting of Real-Time LMP and Network Congestion. <i>IEEE Transactions on Power Systems</i> , 2016, 1-1	7 28
1371	Control policies for operational coordination of electric power and natural gas transmission systems. 2016,	12
1370	Aggregation of large-scale electrical energy transmission networks. 2016,	2
1369	Predicting and mitigating congestion for an electric power system under load and renewable uncertainty. 2016,	0
1368	Scheduling maintenance for reliable transmission systems. 2016,	2
1367	Two-level procedure based on HICAGA to determine optimal number, locations and operating points of SVCs in Isfahan-Khuzestan power system to maximise loadability and minimise losses, TVD and SVC installation cost. 2016, 10, 4158-4168	3
1366	Mitigation of snowstorm risks on power transmission systems based on optimal generation re-dispatch. 2016,	1
1365	Impacts of operating characteristics on sensitivity of power grids to cascading failures. 2016,	6
1364	Unit commitment optimisation of hydro-thermal power systems in the day-ahead electricity market. 2016, 3, 1251009	2
1363	Transactive control mechanism for efficient management of EVs charging in transactive energy environment. 2016,	1
1362	Opposition-based elitist real genetic algorithm for optimal power flow. 2016,	3
1361	Power grid vulnerability assessment against wildfires using probabilistic progression estimation model. 2016,	8
1360	Stochastic AC optimal power flow with approximate chance-constraints. 2016,	15
1359	Distribution feeder impacts of electric vehicles charging in an integrated traffic and power network. 2016,	1
1358	Optimal investment on series FACTS device considering contingencies. 2016,	9

1357	Automated operation of parallel VSC HVDC links within an interconnected AC network. 2016,	3
1356	Optimal planning of distribution grids considering active power curtailment and reactive power control. 2016,	12
1355	Economic analysis of a data center virtual power plant participating in demand response. 2016,	2
1354	Power system reliability enhancement and generation cost reduction in presence of variable resources. 2016,	
1353	Hybrid Genetic Algorithm for multi-objective Transmission Expansion Planning. 2016,	3
1352	MINLP in transmission expansion planning. 2016,	3
1351	Hybrid computation approach for SCOPF considering voltage stability and penetration of renewable enegy. 2016,	0
1350	A robust optimisation approach using CVaR for unit commitment in a market with probabilistic offers. 2016,	5
1349	Adaptive cyber-physical system attack detection and reconstruction with application to power systems. 2016, 10, 1458-1468	82
1348	Increasing the hosting capacity of distribution grids by implementing residential PV storage systems and reactive power control. 2016,	8
1347	Monte Carlo sampling vs. discrete forecast error scenarios in grid reliability assessment for short-term planning. 2016,	2
1346	A composite sensitivity factor based method for networked distributed generation planning. 2016,	3
1345	Privacy preserving decentralized power system state estimation with phasor measurement units. 2016,	3
1344	WAMS hybrid configuration for real time voltage stability monitoring application. 2016,	0
1343	LV distribution system modelling for distributed energy resources. 2016,	1
1342	Multiyear and multi-criteria AC Transmission Expansion Planning model considering reliability and investment costs. 2016,	1
1341	Optimal power flow with wind power control and limited expected risk of overloads. 2016,	8
1340	Strategic Valuation of Smart Grid Technology Options in Distribution Networks. <i>IEEE Transactions on Power Systems</i> , 2016, 1-1	7 20

1339	Fault Diagnosis for Smart Grids in Pragmatic Conditions. 2016 , 1-1		16
1338	Multiobjective planning of power distribution networks with facility location for distributed generation. 2016 , 141, 562-571		21
1337	Effect of electric vehicle parking lots' charging demand as dispatchable loads on power systems loss. 2016 ,		16
1336	Improving robustness and modeling generality for power flow analysis. 2016 ,		17
1335	Emergence of coexisting percolating clusters in networks. 2016 , 93, 062308		7
1334	Determining Optimal Buses for Implementing Demand Response as an Effective Congestion Management Method. <i>IEEE Transactions on Power Systems</i> , 2016 , 1-1	7	24
1333	A Dual Method for Computing Power Transfer Distribution Factors. <i>IEEE Transactions on Power Systems</i> , 2016 , 1-1	7	15
1332	Parallel Augmented Lagrangian Relaxation for Dynamic Economic Dispatch Using Diagonal Quadratic Approximation Method. <i>IEEE Transactions on Power Systems</i> , 2016 , 1-1	7	11
1331	Calibration of erroneous branch parameters utilising learning automata theory. 2016 , 10, 3142-3151		4
1330	An ADMM algorithm for load shedding in electric power grids. 2016 ,		3
1329	Voltage collapse in complex power grids. 2016 , 7, 10790		87
1328	Optimal power flow-based generation shedding for dynamic remedial action scheme. 2016 ,		
1327	Enhanced corrective security constrained OPF with hybrid energy storage systems. 2016 ,		0
1326	Partitioning voltage stability critical injection regions via electrical network response and dynamic relative gain. 2016 ,		2
1325	Power grid resilience against false data injection attacks. 2016 ,		7
1324	Constraints of wind power ramp event in robust unit commitment. 2016 ,		
1323	Droop control in a mechanical power grid simulator. 2016 ,		0
1322	Development of a dynamic model of the European transmission system using publicly available data. 2016 ,		4

1321	Adequacy assessment of future electricity networks. 2016,	1
1320	An efficient approach for robust SCOPF considering load and renewable power uncertainties. 2016,	3
1319	Integration of electric vehicles within microgrid. 2016,	1
1318	Dynamic equivalent model of VSC based on singular perturbation. 2016, 10, 3413-3422	10
1317	Comparative studies of power grid security with network connectivity and power flow information using unsupervised learning. 2016,	6
1316	Computational analysis of sparsity-exploiting moment relaxations of the OPF problem. 2016,	4
1315	Network flow and copper plate relaxations for AC transmission systems. 2016,	9
1314	Islanding the power grid on the transmission level: less connections for more security. 2016, 6, 34797	27
1313	Application and evaluation of UPSO to ODGP in radial Distribution Networks. 2016,	4
1312	. 2016,	
1311	Hybrid Discrete Evolutionary PSO for AC dynamic Transmission Expansion Planning. 2016,	7
1310	Multi-contingency transient stability-constrained optimal power flow using multilayer feedforward neural networks. 2016,	5
1309	. 2016,	6
1308	Improved integration of European renewables using dynamic line rating in Switzerland. 2016,	
1307	A Methodology to Apply a Game Theoretic Model of Security Risks Interdependencies Between ICT and Electric Infrastructures. 2016, 159-171	1
1306	Detection of false data attacks in smart grid with supervised learning. 2016,	41
1305	Vulnerability mitigation of transmission line outages using demand response approach with distribution factors. 2016,	1
1304	Economic dispatch of flexibility options for Grid services on distribution level. 2016,	7

1303	Distribution network cost allocation using a locational and temporal cost reflective methodology. 2016,	3
1302	A multilevel approach for a class of semidefinite programs. 2016,	
1301	PowerGAMA: A new simplified modelling approach for analyses of large interconnected power systems, applied to a 2030 Western Mediterranean case study. 2016, 8, 055501	14
1300	Examining the Bernstein global optimization approach to optimal power flow problem. 2016,	1
1299	An Optimization Framework for Decision Making in Large, Collaborative Energy Supply Systems. 2016, 138,	1
1298	Discrete forecast error scenarios methodology for grid reliability assessment in short-term planning. 2016,	0
1297	Probabilistic load flow evaluation considering correlated input random variables. 2016, 26, 555-572	23
1296	Integration of Sustainable Manufacturing Systems into Smart Grids with High Penetration of Renewable Energy Resources. 2016,	8
1295	. 2016, 52, 4375-4384	21
1294	An S(ell _1)LP-active set approach for feasibility restoration in power systems. 2016, 17, 385-419	5
1293	A modified MOEA/D approach to the solution of multi-objective optimal power flow problem. 2016, 47, 494-514	71
1292	Unified formulation of a family of iterative solvers for power systems analysis. 2016, 140, 201-208	7
1291	Power flow and transmission loss analysis of modular multi-level converter based multi-terminal high-voltage DC systems. 2016, 10, 767-775	12
1290	A Reliable Methodology for Multi-objective Voltage Regulation in the Presence of Renewable Power Generation. 2016, 44, 1357-1370	1
1289	Online least-squares one-class support vector machine for outlier detection in power grid data. 2016,	5
1288	Optimal power flow based on parallel metaheuristics for graphics processing units. 2016, 140, 344-353	27
1287	Iteration complexity analysis of dual first-order methods for conic convex programming. 2016, 31, 645-678	15
1286	Reliability and risk assessment of post-contingency demand response in smart distribution networks. 2016, 7, 1-12	39

1285	. <i>IEEE Transactions on Power Systems</i> , 2016 , 1-1	7	74
1284	Learning the LMP-Load Coupling From Data: A Support Vector Machine Based Approach. <i>IEEE Transactions on Power Systems</i> , 2016 , 1-1	7	12
1283	. 2016 , 12, 1426-1437		31
1282	Day-Ahead Smart Grid Cooperative Distributed Energy Scheduling With Renewable and Storage Integration. 2016 , 7, 1739-1748		51
1281	A unified control scheme for power system transient stability enhancement through preventive and emergency control. 2016 , 26, 365-383		13
1280	An 8-Zone Test System Based on ISO New England Data: Development and Application. <i>IEEE Transactions on Power Systems</i> , 2016 , 31, 234-246	7	40
1279	Two-Stage Parallel Waveform Relaxation Method for Large-Scale Power System Transient Stability Simulation. <i>IEEE Transactions on Power Systems</i> , 2016 , 31, 153-162	7	19
1278	An Improved Corrective Security Constrained OPF for Meshed AC/DC Grids With Multi-Terminal VSC-HVDC. <i>IEEE Transactions on Power Systems</i> , 2016 , 31, 485-495	7	65
1277	A Generation Adjustment Methodology Considering Fluctuations of Loads and Renewable Energy Sources. <i>IEEE Transactions on Power Systems</i> , 2016 , 31, 125-132	7	10
1276	Rolling Unit Commitment and Dispatch With Multi-Stage Recourse Policies for Heterogeneous Devices. <i>IEEE Transactions on Power Systems</i> , 2016 , 31, 187-197	7	31
1275	. 2016 , 7, 460-470		32
1274	Performance Bounds for Look-Ahead Power System Dispatch Using Generalized Multistage Policies. <i>IEEE Transactions on Power Systems</i> , 2016 , 31, 474-484	7	10
1273	. <i>IEEE Transactions on Power Systems</i> , 2016 , 31, 749-758	7	62
1272	Assessment of voltage stability margin by comparing various support vector regression models. 2016 , 20, 807-818		10
1271	Singular Value Sensitivity Based Optimal Control of Embedded VSC-HVDC for Steady-State Voltage Stability Enhancement. <i>IEEE Transactions on Power Systems</i> , 2016 , 31, 216-225	7	27
1270	Dynamic State Estimation of Power Systems With Quantization Effects: A Recursive Filter Approach. 2016 , 27, 1604-14		24
1269	. <i>IEEE Transactions on Power Systems</i> , 2016 , 31, 1308-1319	7	26
1268	Optimal Power Flow Using an Improved Electromagnetism-like Mechanism Method. 2016 , 44, 434-449		36

1267	A Distributed Gauss-Newton Method for Power System State Estimation. <i>IEEE Transactions on Power Systems</i> , 2016 , 31, 3804-3815	7	40
1266	Dynamic Pricing Design for Demand Response Integration in Power Distribution Networks. <i>IEEE Transactions on Power Systems</i> , 2016 , 31, 3457-3472	7	83
1265	Distributed control of inverter-based lossy microgrids for power sharing and frequency regulation under voltage constraints. 2016 , 66, 85-95		17
1264	A knowledge based decision support algorithm for power transmission system vulnerability impact reduction. 2016 , 78, 436-444		11
1263	Wide-area multiple line-outages detection in power complex networks. 2016 , 79, 132-141		17
1262	Impact of unplanned power flows in interconnected transmission systems [Case study of Central Eastern European region. 2016 , 91, 287-303		45
1261	A novel adequate bi-level reactive power planning strategy. 2016 , 78, 897-909		36
1260	Distributed MPC for Efficient Coordination of Storage and Renewable Energy Sources Across Control Areas. 2016 , 7, 992-1001		58
1259	A Time-Dependent Approach to Evaluate Capacity Value of Wind and Solar PV Generation. 2016 , 7, 129-138		27
1258	Fuzzy harmony search algorithm based optimal power flow for power system security enhancement. 2016 , 78, 72-79		69
1257	Reducing excessive standing phase angle differences: A new approach based on OPF and wide area measurements. 2016 , 78, 13-21		3
1256	. <i>IEEE Transactions on Power Systems</i> , 2016 , 31, 3548-3560	7	12
1255	Location Identification of Power Line Outages Using PMU Measurements With Bad Data. <i>IEEE Transactions on Power Systems</i> , 2016 , 31, 3624-3635	7	30
1254	Interactions of district electricity and heating systems considering time-scale characteristics based on quasi-steady multi-energy flow. 2016 , 167, 230-243		135
1253	An importance sampling technique for probabilistic security assessment in power systems with large amounts of wind power. 2016 , 131, 11-18		17
1252	Benchmarking and Validation of Cascading Failure Analysis Tools. <i>IEEE Transactions on Power Systems</i> , 2016 , 31, 4887-4900	7	59
1251	Local matching of flexible load in smart grids. 2016 , 253, 811-824		20
1250	Distributed Monitoring of Voltage Collapse Sensitivity Indices. 2016 , 7, 1979-1988		28

1249	Cuckoo Search Algorithm for Optimal Placement and Sizing of Static Var Compensator in Large-Scale Power Systems. 2016 , 6, 59-68	18
1248	Probabilistic Decision Making for the Bulk Power System Optimal Topology Control. 2016 , 7, 2071-2081	31
1247	Robust economic dispatch considering automatic generation control with affine recourse process. 2016 , 81, 289-298	17
1246	Calculation of Voltage Stability Margins and Certification of Power Flow Insolvability Using Second-Order Cone Programming. 2016 ,	6
1245	Optimization framework for distributed energy systems with integrated electrical grid constraints. 2016 , 171, 296-313	94
1244	Assessing Risk of Gas Shortage in Coupled Gas-Electricity Infrastructures. 2016 ,	3
1243	. 2016 , 7, 1997-2006	63
1242	Static security enhancement using fuzzy particle swarm optimization. 2016 , 35, 172-186	1
1241	Gossip Algorithms for Decentralized Congestion Management of Distribution Grids. 2016 , 7, 1071-1080	19
1240	Critical review of recent advances and further developments needed in AC optimal power flow. 2016 , 136, 57-68	124
1239	. 2016 , 12, 872-882	52
1238	Optimal power flow using an Improved Colliding Bodies Optimization algorithm. 2016 , 42, 119-131	130
1237	Emissions impacts of using energy storage for power system reserves. 2016 , 168, 444-456	45
1236	Multiple line outages identification: A customized quantum inspired approach. 2016 , 134, 47-55	5
1235	Domestic EWH and HVAC management in smart grids: Potential benefits and realization. 2016 , 134, 38-46	24
1234	Integration of Induction Generator Based Distributed Generation in Power Distribution Networks Using a Discrete Particle Swarm Optimization Algorithm. 2016 , 44, 268-277	5
1233	The Holomorphic Embedding Loadflow Method for DC Power Systems and Nonlinear DC Circuits. 2016 , 63, 322-333	51
1232	Fast and Reliable Screening of N-2 Contingencies. <i>IEEE Transactions on Power Systems</i> , 2016 , 31, 4243-4252	18

1231	Nonlinear stochastic programmingWith a case study in continuous switching. 2016 , 252, 487-501	7	
1230	. 2016 , 12, 532-543		56
1229	Application of firefly algorithm for multi-stage transmission expansion planning with adequacy-security considerations in deregulated environments. 2016 , 41, 373-389		13
1228	Power Divider. <i>IEEE Transactions on Power Systems</i> , 2016 , 31, 5135-5143	7	16
1227	Framework for Evaluating and Comparing Performance of Power System Reliability Criteria. <i>IEEE Transactions on Power Systems</i> , 2016 , 31, 5153-5162	7	16
1226	Power System Dynamic Model Reduction Based on Extended Krylov Subspace Method. <i>IEEE Transactions on Power Systems</i> , 2016 , 31, 4483-4494	7	38
1225	The Engineering, Economic and Environmental Electricity Simulation Tool (E4ST): Description and an Illustration of Its Capability and Use as a Planning/Policy Analysis Tool. 2016 ,		4
1224	Enabling Smart Grid Cosimulation Studies: Rapid Design and Development of the Technologies and Controls. 2016 , 4, 25-32		3
1223	An optimization framework for the integrated planning of generation and transmission expansion in interconnected power systems. 2016 , 170, 1-21		70
1222	Constructing Valid Inequalities by Analytical Feasibility Conditions on Unit Commitment with Transmission Constraints. <i>IEEE Transactions on Power Systems</i> , 2016 , 31, 3484-3494	7	3
1221	A Hybrid Transmission Grid Architecture Enabling Efficient Optimal Power Flow. <i>IEEE Transactions on Power Systems</i> , 2016 , 31, 4504-4516	7	12
1220	Ancillary Service for Transmission Systems by Tap Stagger Operation in Distribution Networks. 2016 , 31, 1701-1709		16
1219	Impact of Strategic Behavior and Ownership of Energy Storage on Provision of Flexibility. 2016 , 7, 744-754		51
1218	Storing renewables in the gas network: modelling of power-to-gas seasonal storage flexibility in low-carbon power systems. 2016 , 10, 566-575		109
1217	A contingency partitioning approach for preventive-corrective security-constrained optimal power flow computation. 2016 , 132, 132-140		13
1216	Anomaly detection in electric network database of smart grid: Graph matching approach. 2016 , 133, 51-62		18
1215	. 2016 , 7, 2507-2515		49
1214	Effect of increased renewables generation on operation of thermal power plants. 2016 , 164, 723-732		93

1213	The QC Relaxation: A Theoretical and Computational Study on Optimal Power Flow. <i>IEEE Transactions on Power Systems</i> , 2016 , 31, 3008-3018	7	148
1212	. <i>IEEE Transactions on Power Systems</i> , 2016 , 31, 3816-3828	7	75
1211	A Compensation-Based Conic OPF for Weakly Meshed Networks. <i>IEEE Transactions on Power Systems</i> , 2016 , 31, 4167-4168	7	8
1210	Assessment framework for EV and PV synergies in emerging distribution systems. 2016 , 55, 719-728		29
1209	An Integrated Multiperiod OPF Model With Demand Response and Renewable Generation Uncertainty. 2016 , 7, 1495-1503		90
1208	Multistage Adaptive Robust Optimization for the Unit Commitment Problem. 2016 , 64, 32-51		121
1207	Adjustable robust optimal power flow with the price of robustness for large-scale power systems. 2016 , 10, 164-174		23
1206	Optimal Storage Scheduling Using Markov Decision Processes. 2016 , 7, 755-764		31
1205	Assessing the benefits of residential demand response in a real time distribution energy market. 2016 , 161, 533-551		194
1204	. 2016 , 17, 659-669		159
1203	. <i>IEEE Transactions on Power Systems</i> , 2016 , 31, 2752-2763	7	63
1202	. 2016 , 7, 785-793		28
1201	A Novel Quasi-Decentralized Functional Observer Approach to LFC of Interconnected Power Systems. <i>IEEE Transactions on Power Systems</i> , 2016 , 31, 3139-3151	7	34
1200	Analytic Loss Minimization: A Proof. <i>IEEE Transactions on Power Systems</i> , 2016 , 31, 3322-3323	7	6
1199	Bilevel Model for Analyzing Coordinated Cyber-Physical Attacks on Power Systems. 2016 , 7, 2260-2272		130
1198	A two-point estimate method for uncertainty modeling in multi-objective optimal reactive power dispatch problem. 2016 , 75, 194-204		59
1197	. 2016 , 12, 853-863		27
1196	. 2016 , 31, 370-380		40

1195	Genetic algorithm-based phasor measurement unit placement method considering observability and security criteria. 2016 , 10, 270-280		50
1194	Weather-Based Optimal Power Flow With Wind Farms Integration. <i>IEEE Transactions on Power Systems</i> , 2016 , 31, 3073-3081	7	25
1193	Estimation of the largest eigenvalue in Chebyshev preconditioner for parallel conjugate gradient method-based power flow computation. 2016 , 10, 123-130		3
1192	Probabilistic available transfer capability calculation considering static security constraints and uncertainties of electricity-gas integrated energy systems. 2016 , 167, 305-316		39
1191	Efficient Estimation of the Probability of Small-Disturbance Instability of Large Uncertain Power Systems. <i>IEEE Transactions on Power Systems</i> , 2016 , 31, 1063-1072	7	31
1190	Optimal generation dispatch of distributed generators considering fair contribution to grid voltage control. 2016 , 87, 946-953		10
1189	Adaptive augmented Lagrangian methods: algorithms and practical numerical experience. 2016 , 31, 157-186	7	
1188	A proximal method for composite minimization. 2016 , 158, 501-546		42
1187	Parareal in Time for Fast Power System Dynamic Simulations. <i>IEEE Transactions on Power Systems</i> , 2016 , 31, 1820-1830	7	37
1186	Optimal Placement of Distributed Energy Storage in Power Networks. 2016 , 61, 416-429		48
1185	. <i>IEEE Transactions on Power Systems</i> , 2016 , 31, 2085-2095	7	98
1184	Voltage stability constrained multi-objective optimal reactive power dispatch under load and wind power uncertainties: A stochastic approach. 2016 , 85, 598-609		130
1183	. <i>IEEE Transactions on Power Systems</i> , 2016 , 31, 2204-2213	7	37
1182	Machine Learning Methods for Attack Detection in the Smart Grid. 2016 , 27, 1773-86		286
1181	Accelerate Population-Based Stochastic Search Algorithms With Memory for Optima Tracking on Dynamic Power Systems. <i>IEEE Transactions on Power Systems</i> , 2016 , 31, 268-277	7	16
1180	Inexactness of SDP Relaxation and Valid Inequalities for Optimal Power Flow. <i>IEEE Transactions on Power Systems</i> , 2016 , 31, 642-651	7	79
1179	Optimal Power Flow With the Consideration of Flexible Transmission Line Impedance. <i>IEEE Transactions on Power Systems</i> , 2016 , 31, 1655-1656	7	16
1178	An Improved Corrective Security Constrained OPF With Distributed Energy Storage. <i>IEEE Transactions on Power Systems</i> , 2016 , 31, 1537-1545	7	31

1177	Visualizing the Electrical Structure of Power Systems. 2017 , 11, 1810-1821		49
1176	. 2017 , 11, 1644-1652		244
1175	. 2017 , 8, 1802-1810		54
1174	Parallel Power Flow on Graphics Processing Units for Concurrent Evaluation of Many Networks. 2017 , 8, 1639-1648		24
1173	Constructing transmission line current constraints for the IEEE and polish systems. 2017 , 8, 199-216		4
1172	An Approximately Optimal Algorithm for Scheduling Phasor Data Transmissions in Smart Grid Networks. 2017 , 8, 1649-1657		10
1171	. 2017 , 8, 2239-2248		122
1170	. 2017 , 8, 2617-2626		49
1169	Effects of Switching Network Topologies on Stealthy False Data Injection Attacks Against State Estimation in Power Networks. 2017 , 11, 2640-2651		18
1168	Coordinated Scheduling for Interdependent Electric Power and Natural Gas Infrastructures. <i>IEEE Transactions on Power Systems</i> , 2017 , 32, 600-610	7	132
1167	. 2017 , 8, 1911-1921		20
1166	Defending Against False Data Injection Attacks on Power System State Estimation. 2017 , 13, 198-207		172
1165	Allocating Sensors and Actuators via Optimal Estimation and Control. 2017 , 25, 1060-1067		13
1164	A concise, approximate representation of a collection of loads described by polytopes. 2017 , 84, 55-63		23
1163	Semidefinite Relaxation of Optimal Power Flow for ACDC Grids. <i>IEEE Transactions on Power Systems</i> , 2017 , 32, 289-304	7	53
1162	Optimal Location-Allocation of TCSC Devices on a Transmission Network. <i>IEEE Transactions on Power Systems</i> , 2017 , 32, 94-102	7	39
1161	Convex Relaxation for Optimal Distributed Control Problems. 2017 , 62, 206-221		45
1160	. <i>IEEE Transactions on Power Systems</i> , 2017 , 32, 326-333	7	4

1159	Estimating the saddle-node bifurcation point of static power systems using the holomorphic embedding method. 2017 , 84, 1-12		46
1158	MIP Reformulation for Max-Min Problems in Two-Stage Robust SCUC. <i>IEEE Transactions on Power Systems</i> , 2017 , 32, 1237-1247	7	38
1157	Optimal Power Flow With Power Flow Routers. <i>IEEE Transactions on Power Systems</i> , 2017 , 32, 531-543	7	23
1156	. <i>IEEE Transactions on Power Systems</i> , 2017 , 32, 522-530	7	14
1155	A PMU Placement Scheme Considering Realistic Costs and Modern Trends in Relaying. <i>IEEE Transactions on Power Systems</i> , 2017 , 32, 552-561	7	63
1154	Modeling and performance evaluation of stealthy false data injection attacks on smart grid in the presence of corrupted measurements. 2017 , 83, 58-72		46
1153	A Laplacian-Based Approach for Finding Near Globally Optimal Solutions to OPF Problems. <i>IEEE Transactions on Power Systems</i> , 2017 , 32, 305-315	7	27
1152	A Hybrid Dynamic System Model for Multimodal Transportation Electrification. 2017 , 25, 940-951		21
1151	Minimum Breakpoint Set Determination for Directional Overcurrent Relay Coordination in Large-Scale Power Networks via Matrix Computations. 2017 , 32, 1784-1789		11
1150	A Novel Cloud-Based Platform for Implementation of Oblivious Power Routing for Clusters of Microgrids. 2017 , 5, 607-619		56
1149	Large Multi-Machine Power System Simulations Using Multi-Stage Adomian Decomposition. <i>IEEE Transactions on Power Systems</i> , 2017 , 32, 3594-3606	7	14
1148	Multi-temporal Optimal Power Flow for voltage control in MV networks using Distributed Energy Resources. 2017 , 146, 25-32		17
1147	Offshore wind farm layout optimization regarding wake effects and electrical losses. 2017 , 60, 26-34		26
1146	Modeling power networks using dynamic phasors in the dq0 reference frame. 2017 , 144, 233-242		17
1145	Assessment of the Electric Grid Interdiction Problem using a nonlinear modeling approach. 2017 , 144, 243-254		11
1144	Open Data in Power Grid Modelling: New Approaches Towards Transparent Grid Models. 2017 , 3, 14-21		43
1143	Reduction of Power System Dynamic Models Using Sparse Representations. <i>IEEE Transactions on Power Systems</i> , 2017 , 32, 3893-3900	7	5
1142	LMP Revisited: A Linear Model for the Loss-Embedded LMP. <i>IEEE Transactions on Power Systems</i> , 2017 , 32, 4080-4090	7	36

1141	Dispatch of Vehicle-to-Grid Battery Storage Using an Analytic Hierarchy Process. 2017 , 66, 2952-2965		20
1140	Modeling and impact analysis of interdependent characteristics on cascading failures in smart grids. 2017 , 89, 106-114		38
1139	Multiperiod Risk-Limiting Dispatch in Power Systems With Renewables Integration. 2017 , 13, 1843-1854		7
1138	Using fuzzy transform in multi-agent based monitoring of smart grids. 2017 , 388-389, 209-224		26
1137	Dual Theory of Transmission Line Outages. <i>IEEE Transactions on Power Systems</i> , 2017 , 32, 4060-4068	7	18
1136	Probabilistic Power Flow for AC/VSC-MTDC Hybrid Grids Considering Rank Correlation Among Diverse Uncertainty Sources. <i>IEEE Transactions on Power Systems</i> , 2017 , 32, 4035-4044	7	29
1135	A robust mean variance optimization model for economic dispatch with wind power integration and evenly distributed Pareto front generation. 2017 , 27, e2324		1
1134	Challenges with renewable energy sources and storage in practical distribution systems. 2017 , 73, 125-134		57
1133	Security Constrained Multi-Stage Transmission Expansion Planning Considering a Continuously Variable Series Reactor. <i>IEEE Transactions on Power Systems</i> , 2017 , 32, 4442-4450	7	43
1132	Design and development of a smart grid laboratory for an energy and power engineering technology program. 2017 , 54, 299-318		7
1131	Structure-Exploiting Delay-Dependent Stability Analysis Applied to Power System Load Frequency Control. <i>IEEE Transactions on Power Systems</i> , 2017 , 32, 4528-4540	7	16
1130	Real-time cyber physical system testbed for power system security and control. 2017 , 90, 124-133		62
1129	Optimization-based reactive power control in HVDC-connected wind power plants. 2017 , 109, 500-509		24
1128	A low-rank coordinate-descent algorithm for semidefinite programming relaxations of optimal power flow. 2017 , 32, 849-871		8
1127	Improving Power Grid Stability With Communication Infrastructure. 2017 , 7, 349-358		
1126	Smart charging for electric vehicles to minimise charging cost. 2017 , 231, 526-534		6
1125	A robust techno-economic analysis of PMU-based islanding detection schemes. 2017 ,		2
1124	FLiER: Practical Topology Update Detection Using Sparse PMUs. <i>IEEE Transactions on Power Systems</i> , 2017 , 32, 4222-4232	7	6

1123	A stochastic short-term operation model for an active distribution company considering network constraints and demand response. 2017 , 27, e2321		4
1122	A computational comparison of 2 mathematical formulations to handle transmission network constraints in the unit commitment problem. 2017 , 27, e2332		6
1121	Validation study of an approximate 2014 European power-flow model using PowerGAMA. 2017 , 11, 392-400		4
1120	A small-population based parallel differential evolution algorithm for short-term hydrothermal scheduling problem considering power flow constraints. 2017 , 123, 538-554		28
1119	. <i>IEEE Transactions on Power Systems</i> , 2017 , 32, 4684-4695	7	31
1118	A framework for disturbance analysis in smart grids by fault injection. 2017 , 32, 93-103		
1117	Analysis of transmission expansion planning considering consumption-based carbon emission accounting. 2017 , 193, 232-242		23
1116	An improved artificial bee colony optimization algorithm based on orthogonal learning for optimal power flow problem. 2017 , 61, 163-172		55
1115	Modeling the Dynamics of Cascading Failures in Power Systems. 2017 , 7, 192-204		48
1114	New Formulation and Strong MISOCP Relaxations for AC Optimal Transmission Switching Problem. <i>IEEE Transactions on Power Systems</i> , 2017 , 32, 4161-4170	7	60
1113	Constraint Qualification Based Detection Method for Nodal Price Multiplicity. <i>IEEE Transactions on Power Systems</i> , 2017 , 32, 4968-4969	7	1
1112	A complete decomposition and coordination algorithm for large-scale hydrothermal optimal power flow problems. 2017 , 12, 491-500		2
1111	Solving nearly-separable quadratic optimization problems as nonsmooth equations. 2017 , 67, 317-360		3
1110	Multi-objective Optimal Reactive Power Dispatch Considering Uncertainties in the Wind Integrated Power Systems. 2017 , 475-513		4
1109	Determination of optimal converter operating points regarding static voltage stability and system losses in hybrid transmission systems. 2017 ,		
1108	A statistical unsupervised method against false data injection attacks: A visualization-based approach. 2017 , 84, 242-261		38
1107	CCPA: Coordinated Cyber-Physical Attacks and Countermeasures in Smart Grid. 2017 , 8, 2420-2430		102
1106	Application of swarm based intelligent computing algorithms for dynamic evaluation of maximum loadability of transmission network. 2017 , 21, 201-222		3

1105	Classification of generators participating in the bulk-power market. 2017 ,	4
1104	Risk Averse Security Constrained Stochastic Congestion Management. 2017 , 301-334	1
1103	Power grid connectivity monitoring by identifying critical transmission lines based on network flow. 2017 ,	0
1102	Enhanced Robustness of State Estimator to Bad Data Processing Through Multi-innovation Analysis. 2017 , 13, 1610-1619	29
1101	Development of topological method for calculating current distribution coefficients in complex power networks. 2017 , 7, 1644-1649	12
1100	Real-Time Optimal Power Flow. 2017 , 8, 2963-2973	90
1099	Comparison of the Holomorphic Embedding Load Flow Method with Established Power Flow Algorithms and a New Hybrid Approach. 2017 ,	8
1098	Adaptive real-time congestion management in smart power systems using a real-time hybrid optimization algorithm. 2017 , 150, 118-128	25
1097	Ant lion optimizer for solving optimal reactive power dispatch problem in power systems. 2017 , 20, 885-895	62
1096	Spectral clustering-based partitioning of volt/VAR control areas in bulk power systems. 2017 , 11, 1126-1133	15
1095	Stealthy false data injection attacks using matrix recovery and independent component analysis in smart grid. 2017 , 199, 012034	3
1094	Multi-Core CPU Parallel Power Flow Computation in AC/DC System Considering DC Control. 2017 , 45, 990-1000	1
1093	Cuckoo Search Algorithm as an optimizer for Optimal Reactive Power Dispatch problems. 2017 ,	5
1092	Techno-economic assessment of forecasting and communication on centralized voltage control with high PV penetration. 2017 , 151, 338-347	5
1091	A novel approach for early detection of impending voltage collapse events based on the support vector machine. 2017 , 27, e2375	3
1090	A heuristic approach for dividing graphs into bi-connected components with a size constraint. 2017 , 23, 111-136	2
1089	Application-Specific Residential Microgrid Design Methodology. 2017 , 22, 1-21	1
1088	Identification of critical contingencies using solution space pruning and intelligent search. 2017 , 149, 220-229	6

1087	Successive-over-relaxation based recursive Bayesian approach for power system configuration identification. 2017 , 36, 1043-1058	5
1086	Design of reactive power and reactive power reserve market. 2017 , 11, 1443-1452	8
1085	Investigation into transmission options for cross-border power trading in ASEAN power grid. 2017 , 108, 91-101	16
1084	Minimizing the steady-state impediments to solar photovoltaics. 2017 , 79, 1329-1345	2
1083	Information gap decision theory for voltage stability constrained OPF considering the uncertainty of multiple wind farms. 2017 , 11, 585-592	29
1082	Comparison of time-varying phasor and dq 0 dynamic models for large transmission networks. 2017 , 93, 65-74	12
1081	A Comparison of Malicious Interdiction Strategies Against Electrical Networks. 2017 , 7, 205-217	13
1080	Hybrid Methods in Solving Alternating-Current Optimal Power Flows. 2017 , 8, 2988-2998	8
1079	Robust Topology Design of Complex Infrastructure Systems. 2017 , 3,	3
1078	Reducing Cascading Failure Risk by Increasing Infrastructure Network Interdependence. 2017 , 7, 44499	74
1077	Improved-ELM method for detecting false data attack in smart grid. 2017 , 91, 183-191	29
1076	Hierarchical coordination of TSO-DSO economic dispatch considering large-scale integration of distributed energy resources. 2017 , 195, 600-615	71
1075	An Approach to Solve Transient Stability-Constrained Optimal Power Flow Problem Using Support Vector Machines. 2017 , 45, 624-632	2
1074	GPU-Based Fast Decoupled Power Flow With Preconditioned Iterative Solver and Inexact Newton Method. <i>IEEE Transactions on Power Systems</i> , 2017 , 32, 2695-2703	7 34
1073	Transmission expansion simulation for the European Northern Seas offshore grid. 2017 , 125, 805-824	15
1072	Computing the Feasible Spaces of Optimal Power Flow Problems. <i>IEEE Transactions on Power Systems</i> , 2017 , 32, 4752-4763	7 27
1071	Calculation of TTC for multi-area power systems based on improved Ward-PV equivalents. 2017 , 11, 987-994	9
1070	Robust optimization of power network operation: storage devices and the role of forecast errors in renewable energies. 2017 , 809-820	2

1069	A review of optimal power flow studies applied to smart grids and microgrids. 2017 , 71, 742-766		96
1068	Minimum Sparsity of Unobservable Power Network Attacks. 2017 , 62, 3354-3368		20
1067	Negative Reactance Impacts on the Eigenvalues of the Jacobian Matrix in Power Flow and Type-1 Low-Voltage Power-Flow Solutions. <i>IEEE Transactions on Power Systems</i> , 2017 , 32, 3471-3481	7	7
1066	. <i>IEEE Transactions on Power Systems</i> , 2017 , 32, 3403-3414	7	45
1065	Multiobjective transmission expansion planning problem based on ACOPF considering load and wind power generation uncertainties. 2017 , 27, e2312		7
1064	A Case for Nonconvex Distributed Optimization in Large-Scale Power Systems. <i>IEEE Transactions on Power Systems</i> , 2017 , 32, 3842-3851	7	43
1063	A spatial branch-and-cut method for nonconvex QCQP with bounded complex variables. 2017 , 165, 549-577		18
1062	Strengthening the SDP Relaxation of AC Power Flows With Convex Envelopes, Bound Tightening, and Valid Inequalities. <i>IEEE Transactions on Power Systems</i> , 2017 , 32, 3549-3558	7	48
1061	High Throughput Computing for Massive Scenario Analysis and Optimization to Minimize Cascading Blackout Risk. 2017 , 8, 1427-1435		7
1060	Robust Security Constrained-Optimal Power Flow Using Multiple Microgrids for Corrective Control of Power Systems Under Uncertainty. 2017 , 13, 1704-1713		37
1059	Conic Programming-Based Lagrangian Relaxation Method for DCOPF With Transmission Losses and its Zero-Gap Sufficient Condition. <i>IEEE Transactions on Power Systems</i> , 2017 , 32, 3852-3861	7	5
1058	. 2017 , 53, 936-946		30
1057	Solving Multiperiod OPF Problems Using an AC-QP Algorithm Initialized With an SOCP Relaxation. <i>IEEE Transactions on Power Systems</i> , 2017 , 32, 3538-3548	7	26
1056	Multi-objective electric distribution network reconfiguration solution using runner-root algorithm. 2017 , 52, 93-108		61
1055	A State-Independent Linear Power Flow Model With Accurate Estimation of Voltage Magnitude. <i>IEEE Transactions on Power Systems</i> , 2017 , 32, 3607-3617	7	109
1054	A modeling framework to integrate exogenous tools for identifying critical components in power systems. 2017 ,		2
1053	Computing undetectable attacks on power grids. 2017 , 45, 115-118		3
1052	Distributed Energy Management of PV-Storage Systems for Voltage Rise Mitigation. 2017 , 2, 1		8

1051	A Hybrid State Estimator using Current based Estimator and PMU Measurements. 2017 , 117, 1117-1124	1
1050	A distributed voltage stability margin for power distribution networks. 2017 , 50, 13240-13245	6
1049	Multi-objective transmission expansion planning with allocation of fixed series compensation under uncertainties. 2017 , 27, e2417	9
1048	A data driven approach to distribution network topology identification. 2017 ,	4
1047	Towards the Power Synergy Hub (PSHub): Coordinating the energy dispatch of super grid by modified Benders decomposition. 2017 , 205, 1419-1434	7
1046	Cascading Failure Attacks in the Power System: A Stochastic Game Perspective. 2017 , 4, 2247-2259	44
1045	A biased random key genetic algorithm applied to the electric distribution network reconfiguration problem. 2017 , 23, 533-550	23
1044	Congestion Probability Balanced Electric Vehicle Charging Strategy in Smart Grid. 2017 , 192-201	
1043	Improved flexibility of active distribution grid by remote control of renewable energy sources. 2017 ,	4
1042	A post-processing methodology for robust spectral embedded clustering of power networks. 2017 ,	4
1041	Optimized Measurement Allocation for Power Distribution Systems Using Mixed Integer SDP. 2017 , 66, 2967-2976	13
1040	Introduction to Programming in GAMS. 2017 , 1-32	2
1039	Energy System Integration. 2017 , 265-292	
1038	Multi-Period Optimal Power Flow. 2017 , 141-173	1
1037	Energy Storage Systems. 2017 , 175-201	1
1036	Optimal network design for synchronization of coupled oscillators. 2017 , 84, 181-189	12
1035	A comprehensive cloud-based real-time simulation framework for oblivious power routing in clusters of DC microgrids. 2017 ,	30
1034	Reconstruction of measurements in state estimation strategy against cyber attacks for cyber physical systems. 2017 ,	

1033	Limits of Predictability of Cascading Overload Failures in Spatially-Embedded Networks with Distributed Flows. 2017 , 7, 11729	12
1032	Demand response programs vs congestion and cascading line outages in smart grids. 2017 , 27, e2422	4
1031	Weak Bus-Oriented Installation of Phasor Measurement Unit for Power Network Observability. 2017 , 18,	5
1030	Analysis of reactive power strategies in HVDC-connected wind power plant clusters. 2017 , 20, 1971-1982	8
1029	Comparative analysis of heuristic techniques applied to ODGP. 2017 ,	5
1028	Transmission system planning considering solar distributed generation penetration. 2017 ,	8
1027	Using demand response to improve power system voltage stability margins. 2017 ,	4
1026	Multiyear transmission expansion planning under hydrological uncertainty. 2017 ,	1
1025	Modelling of automatic voltage regulators of transformers and HVDC-droop-control in MATPOWER. 2017 ,	
1024	Decision support program for congestion management using demand side flexibility. 2017 ,	5
1023	Congestion management through coordination of distribution system operator and a virtual power plant. 2017 ,	4
1022	Optimal service restoration of power distribution networks considering voltage regulation. 2017 ,	4
1021	Closed loop flow detection in power systems based on Floyd-Warshall algorithm. 2017 ,	1
1020	Optimal policy-based control of generation and HVDC lines in power systems under uncertainty. 2017 ,	2
1019	Benefits of PV inverter volt-var control on distribution network operation. 2017 ,	8
1018	A security-constrained multi-period OPF for the locational allocation of automatic reserves. 2017 ,	3
1017	SDP resolution techniques for the optimal power flow with unit commitment. 2017 ,	2
1016	Granulated load-side control of power systems with electric spring aggregators. 2017 ,	4

1015	Identifying congestion zones with weighted decomposition of locational marginal prices. 2017,	3
1014	A Survey of Distributed Optimization and Control Algorithms for Electric Power Systems. 2017, 8, 2941-2962	463
1013	Two-stage distributionally robust optimal power flow with flexible loads. 2017,	4
1012	SAInt DA novel quasi-dynamic model for assessing security of supply in coupled gas and electricity transmission networks. 2017, 203, 829-857	57
1011	Optimal reactive power dispatch solution by loss minimization using moth-flame optimization technique. 2017, 59, 210-222	119
1010	Evaluating transactive controls of integrated transmission and distribution systems using the Framework for Network Co-Simulation. 2017,	10
1009	Modelling of network reliability of OHL networks using information and communication technologies. 2017,	5
1008	Quantification of benefits achieved by coordinated control of power flow controlling devices. 2017,	
1007	Interaction of consumers, photovoltaic systems and electric vehicle energy demand in a Reference Network Model. 2017,	5
1006	A submodular optimization approach to controlled islanding under cascading failure. 2017,	2
1005	Optimal allocation and sizing of capacitor banks for maximum power transfer to selected areas. 2017,	
1004	First-Order Methods for Fast Feasibility Pursuit of Non-convex QCQPs. 2017, 65, 5927-5941	8
1003	Voltage stability assessment based on improved coupled single-port method. 2017, 11, 2703-2711	16
1002	Open-source software for modeling and analysis of power networks in the dq0 reference frame. 2017,	5
1001	Distribution Locational Marginal Price analysis considering technical constraints. 2017,	3
1000	Cascading Failures as Continuous Phase-Space Transitions. 2017, 119, 248302	23
999	. 2017, 5, 21323-21335	44
998	. 2017,	

997	Threat From Being Social: Vulnerability Analysis of Social Network Coupled Smart Grid. 2017 , 5, 16774-16783	12
996	Models and methods for low-carbon footprint analysis of grid-connected photovoltaic generation from a distribution network planning perspective. 2017 , 5, 290-301	4
995	Asynchronous Decentralized Framework for Unit Commitment in Power Systems. 2017 , 108, 665-674	8
994	Primary energy evaluation of heat pumps considering dynamic boundary conditions in the energy system. 2017 , 138, 60-78	7
993	Dynamic energy management with scenario-based robust MPC. 2017 ,	7
992	Robust detection and reconstruction of state and sensor attacks for cyber-physical systems using sliding modes. 2017 , 11, 1756-1766	29
991	An ADMM-based regularized state estimation scheme for the distribution grid. 2017 ,	1
990	Load variations impact on optimal DG placement problem concerning energy loss reduction. 2017 , 152, 36-47	23
989	. 2017 ,	4
988	Grid ancillary service using distributed computational intelligence based control of renewables and storage systems in a distribution network. 2017 ,	
987	A nonlinear optimization model for transient stable line switching. 2017 ,	
986	Robust Power Line Outage Detection with Unreliable Phasor Measurements. 2017 ,	0
985	Priority Ranking of Critical Uncertainties Affecting Small-Disturbance Stability Using Sensitivity Analysis Techniques. <i>IEEE Transactions on Power Systems</i> , 2017 , 32, 2629-2639	7 46
984	Self-Repairable Smart Grids Via Online Coordination of Smart Transformers. 2017 , 13, 1783-1793	13
983	A Novel Method of Polynomial Approximation for Parametric Problems in Power Systems. <i>IEEE Transactions on Power Systems</i> , 2017 , 32, 3298-3307	7 13
982	Microgrid energy scheduling using storage from electric vehicles. 2017 , 143, 554-562	62
981	Identifying Optimal Energy Flow Solvability in Electricity-Gas Integrated Energy Systems. 2017 , 8, 846-854	35
980	An economic dispatch algorithm for congestion management of smart power networks. 2017 , 8, 643-667	18

979	A new multiple line outage identification formulation using a sparse vector recovery technique. 2017 , 142, 237-248	9
978	A Distributed Algorithm for Economic Dispatch Over Time-Varying Directed Networks With Delays. 2017 , 64, 5095-5106	115
977	Convex quadratic relaxations for mixed-integer nonlinear programs in power systems. 2017 , 9, 321-367	65
976	Robust Interval Economic Dispatch and the Price of Robustness. 2017 , 125-151	
975	Estimation of rare event probabilities in power transmission networks subject to cascading failures. 2017 , 158, 9-20	25
974	Real-time reactive power distribution in microgrids by dynamic programing. 2017 , 11, 530-539	3
973	A risk optimization model for enhanced power grid resilience against physical attacks. 2017 , 143, 329-338	51
972	A modeling and simulation framework for the reliability/availability assessment of a power transmission grid subject to cascading failures under extreme weather conditions. 2017 , 185, 267-279	94
971	Examination of Three Different ACOPF Formulations With Generator Capability Curves. <i>IEEE Transactions on Power Systems</i> , 2017 , 32, 2913-2923	7 16
970	Multi-Linear Probabilistic Energy Flow Analysis of Integrated Electrical and Natural-Gas Systems. <i>IEEE Transactions on Power Systems</i> , 2017 , 32, 1970-1979	7 112
969	Transmission Loss Allocation Based on Power Adjacency Matrix in Pool Electricity Markets. 2017 , 143, 04016049	3
968	Optimal Selection of Phase Shifting Transformer Adjustment in Optimal Power Flow. <i>IEEE Transactions on Power Systems</i> , 2017 , 32, 2464-2465	7 11
967	Computationally Efficient Adjustment of FACTS Set Points in DC Optimal Power Flow With Shift Factor Structure. <i>IEEE Transactions on Power Systems</i> , 2017 , 32, 1733-1740	7 29
966	SmartBuilds: An Energy and Power Simulation Framework for Buildings and Districts. 2017 , 53, 402-410	13
965	Q-Learning-Based Vulnerability Analysis of Smart Grid Against Sequential Topology Attacks. 2017 , 12, 200-210	122
964	Energy Storage Sizing Taking Into Account Forecast Uncertainties and Receding Horizon Operation. 2017 , 8, 331-340	99
963	A Radial Boundary Intersection aided interior point method for multi-objective optimization. 2017 , 377, 1-16	12
962	. 2017 , 66, 2915-2926	18

961	Quantification of Intra-hour Security-Constrained Flexibility Region. 2017 , 8, 671-684		16
960	Multistage Robust Unit Commitment With Dynamic Uncertainty Sets and Energy Storage. <i>IEEE Transactions on Power Systems</i> , 2017 , 32, 1678-1688	7	102
959	Generalized Line Loss Relaxation in Polar Voltage Coordinates. <i>IEEE Transactions on Power Systems</i> , 2017 , 32, 1980-1989	7	2
958	IGMS: An Integrated ISO-to-Appliance Scale Grid Modeling System. 2017 , 8, 1525-1534		22
957	A Necessary Condition for Power Flow Insolvability in Power Distribution Systems With Distributed Generators. <i>IEEE Transactions on Power Systems</i> , 2017 , 32, 1440-1450	7	32
956	AC power flow importance measures considering multi-element failures. 2017 , 160, 89-97		34
955	Unit Commitment Incorporating Spatial Distribution Control of Air Pollutant Dispersion. 2017 , 13, 995-1005		18
954	A novel network model for optimal power flow with reactive power and network losses. 2017 , 144, 63-71		29
953	A Modular Power System Planning and Power Flow Simulation Framework for Generating and Evaluating Power Network Models. <i>IEEE Transactions on Power Systems</i> , 2017 , 32, 2214-2224	7	7
952	A Stochastic Multi-Objective Framework for Optimal Scheduling of Energy Storage Systems in Microgrids. 2017 , 8, 117-127		121
951	Stochastic Interchange Scheduling in the Real-Time Electricity Market. <i>IEEE Transactions on Power Systems</i> , 2017 , 32, 2017-2027	7	4
950	Constraint Screening for Security Analysis of Power Networks. <i>IEEE Transactions on Power Systems</i> , 2017 , 32, 1828-1838	7	26
949	Optimal Reactive Power Dispatch With Accurately Modeled Discrete Control Devices: A Successive Linear Approximation Approach. <i>IEEE Transactions on Power Systems</i> , 2017 , 32, 2435-2444	7	44
948	Power System Operation with Large Scale Stochastic Wind Power Integration. 2017 ,		0
947	Detection of false data injection attacks against state estimation in smart grids based on a mixture Gaussian distribution learning method. 2017 , 2, 161-171		70
946	Tractable reserve scheduling in AC power systems with uncertain wind power generation. 2017 ,		4
945	Optimal power flow incorporating wind energy and load reduction by BH algorithm and KOA algorithm. 2017 ,		
944	Optimal sizing method of vanadium redox flow battery to provide load frequency control in power systems with intermittent renewable generation. 2017 , 11, 1804-1811		15

943	Assessment of hypothesized substation cyberattack using linearized power flow approach. 2017,	
942	Day-ahead schedule of a multi-energy system with power-to-gas technology. 2017,	0
941	Variable length encoded genetic algorithm for optimal electrical distribution network routing. 2017,	1
940	. 2017, 66, 1110-1119	49
939	ADMM for nonconvex AC optimal power flow. 2017,	5
938	Bilevel optimization based transmission expansion planning considering phase shifting transformer. 2017,	3
937	Flexibility service market for active congestion management of distribution networks using flexible energy resources of microgrids. 2017,	20
936	Optimal PMU placement considering state estimation uncertainty and voltage controllability. 2017, 11, 4465-4475	18
935	Robust distributed volt/var control of distribution systems. 2017,	1
934	Application of reduced PTDF matrix in iterative modified DC network model for cross-border capacity calculation with consideration of reactive power flow constraints. 2017,	
933	Robust linear control of storage in transmission systems, and extensions to robust network control problems. 2017,	3
932	Mixed-Integer Linear optimization algorithm for Volt/Var Control on a distribution grid with renewable penetration. 2017,	
931	Combined cumulants and Laplace transform method for probabilistic load flow analysis. 2017, 11, 3548-3556	18
930	Optimal voltage control using singular value decomposition of fast decoupled load flow jacobian. 2017,	1
929	State Estimation in Smart Distribution System With Low-Precision Measurements. 2017, 5, 22713-22723	2
928	Distributed optimal power flow: An Augmented Lagrangian-Sequential Quadratic Programming approach. 2017,	0
927	The impact of load models in an algorithm for improving voltage stability via demand response. 2017,	3
926	Holomorphic embedding approach as an alternative method for solving the power flow problem. 2017,	0

925	Impact of Optimal Unified Power Flow Controller in Electrical Transmission Systems in Reducing Transmission Cost. 2017 , 45, 1762-1772	2
924	Distributed algorithm for time-varying optimal power flow. 2017 ,	4
923	Optimized risk limits for stochastic optimal power flow. 2017 ,	1
922	An analytical planning approach for determining the maximum penetration of renewable distributed generation in the distribution network. 2017 ,	0
921	Apache spark as distributed middleware for power system analysis. 2017 ,	
920	Modeling imperfect generator behavior in power system operation models. 2017 ,	
919	. 2017 ,	1
918	Soft-error resiliency of power flow calculations. 2017 ,	0
917	Cluster-based DC grid control strategies applied to a European offshore grid scenario. 2017 ,	0
916	Optimal Placement of Intermittent Renewable Energy Resources and Energy Storage System in Smart Power Distribution Networks. 2017 , 45, 1543-1553	7
915	Ensuring Data Integrity of OPF Module and Energy Database by Detecting Changes in Power Flow Patterns in Smart Grids. 2017 , 13, 3299-3311	23
914	AMPS: An Augmented Matrix Formulation for Principal Submatrix Updates with Application to Power Grids. 2017 , 39, S809-S827	2
913	Modeling and analysis methods for assessing stability of microgrids. 2017 , 50, 5448-5455	12
912	On fully distributed dual first order methods for convex network optimization. 2017 , 50, 2788-2793	0
911	Fully distributed multi-area dynamic economic dispatch method with second-order convergence for active distribution networks. 2017 , 11, 3955-3965	19
910	Stochastic unit commitment considering Markov process of wind power forecast. 2017 ,	1
909	Reduce power losses and improve voltage level by using distributed generation in radial distributed grid. 2017 ,	4
908	Low-carbon economic dispatch for integrated heat and power systems considering network constraints. 2017 , 2017, 2628-2633	4

907	Local cyber-physical attack with leveraging detection in smart grid. 2017,	4
906	Performance analysis of GPU-accelerated fast decoupled power flow using direct linear solver. 2017,	2
905	Recent advances on state estimation for power grids with unconventional measurements. 2017, 11, 3221-3232	14
904	Market for multi-dimensional flexibility with parametric demand response bidding. 2017,	5
903	Modeling impact of communication network failures on power grid reliability. 2017,	14
902	. 2017,	5
901	Two-stage heuristic methodology for optimal reconfiguration and Volt/VAr control in the operation of electrical distribution systems. 2017, 11, 3946-3954	11
900	Exploration of power flow distribution to reveal scale-free characteristics in power grids. 2017,	1
899	Visual steering and modeling environment for smart grid models and simulations. 2017,	1
898	Load balancing with energy storage systems based on co-simulation of multiple smart buildings and distribution networks. 2017,	8
897	Optimal use of decentralized methods for volt/var control in distribution networks. 2017,	0
896	Predicting voltage stability margin via learning stability region boundary. 2017,	2
895	Challenges and trade-offs of a cloud hosted phasor measurement unit-based linear state estimator. 2017,	0
894	Going beyond linear dependencies to unveil connectivity of meshed grids. 2017,	12
893	Reliability evaluation framework incorporating energy storage systems. 2017,	1
892	A real-time co-simulation platform for distribution grid voltage control. 2017,	1
891	Multi-objective optimal reactive power dispatch using modified game theory. 2017,	1
890	Simplified power flow modeling approach considering on-load tap changers. 2017,	2

889	Optimal PMU placement for coordinated observability of power system under contingencies. 2017,	7
888	Power flow control using FACTS device in modern power system. 2017,	3
887	Grid parameter estimation procedure for emerging countries scenario. 2017,	1
886	QV interaction evaluation and pilot voltage-reactive power coupling area partitioning in bulk power systems. 2017, 11, 270-278	5
885	Optimal real-time congestion management in power markets based on particle swarm optimization. 2017,	3
884	A framework for modeling load redistribution attacks coordinating with switching attacks. 2017,	1
883	Quickest line outage localization under unknown model. 2017,	3
882	Modeling cascading failure propagation in power systems. 2017,	2
881	Supervised learning for optimal power flow as a real-time proxy. 2017,	9
880	A control architecture for optimal power sharing among interconnected microgrids. 2017,	1
879	Voltage security constrained look-ahead coordination of reactive power support devices with high renewables. 2017,	0
878	A two-stage robust optimization for coordinated planning of generation and energy storage systems. 2017,	3
877	Optimal PV curtailment using OPF with transmission-network constraints considering locations of PV systems. 2017,	0
876	Contingency analysis via SDP relaxations of the OPF problem. 2017,	
875	Impact of DTR system on the transmission line reliability model. 2017,	1
874	AC sparse modeling for false data injection attack on smart grid. 2017,	0
873	Reliability evaluation framework considering OHL emergency loading and demand response. 2017,	4
872	Power systems data fusion based on belief propagation. 2017,	3

871	Optimal allocation of static var compensator via mixed integer conic programming. 2017,	1
870	A multivariate time series forecast model for wind and storage integrated system operation. 2017,	1
869	Line failure probability bounds for power grids. 2017,	2
868	Solving the voltage regulation problem with output feedback. 2017,	
867	Hybrid cascading outage analysis of extreme events with optimized corrective actions. 2017,	1
866	A combined transmission and distribution system co-simulation framework for assessing the impact of Volt/VAR control on transmission system. 2017,	12
865	DC power flow feasibility: Positive vs. negative loads. 2017,	0
864	Parallel Simulation of Power Systems Transient Stability Based on Implicit Runge-Kutta Methods and W-transformation. 2017, 45, 2246-2256	4
863	. 2017,	2
862	Solving optimal power flow with non-Gaussian uncertainties via polynomial chaos expansion. 2017,	14
861	Spectral characterization of controllability and observability for frequency regulation dynamics. 2017,	5
860	Comparing different models for investigating cascading failures in power systems. 2017,	2
859	. 2017,	6
858	Replacement of aging power transformers considering system risks under multi-level load. 2017,	0
857	Optimal control policies for reserve deployment with probabilistic performance guarantees. 2017,	
856	Sensitivity guided genetic algorithm for placement of distributed energy resources. 2017,	2
855	A new approach to enhance transient stability of power system and its impact on local marginal prices. 2017,	0
854	Application of AHP method for optimal location of SSSC device under different operating conditions. 2017,	

853	Swarm behavior for distribution grid control. 2017,	1
852	Interval state estimation based defense mechanism against cyber attack on power systems. 2017,	1
851	Voltage control in distribution network by leveraging energy storage system in grid-tied microgrids. 2017,	
850	Composite socio-technical systems: A method for social energy systems. 2017,	1
849	Resilient post-disaster system reconfiguration for multiple energy service restoration. 2017,	2
848	Power grid vulnerability ranking: A linear programming approach. 2017,	
847	Online optimization in closed loop on the power flow manifold. 2017,	25
846	A Risk-Constrained Project Portfolio in Centralized Transmission Expansion Planning. 2017, 11, 1653-1661	10
845	Reference bus independent components of LMP through a non-marginal choice of its energy component. 2017,	0
844	Local voltage control in distribution networks: Game and variational inequalities. 2017,	
843	Flexibility options for medium-voltage grid planning. 2017, 2017, 2287-2291	
842	Integration of a thermal energy storage as a dynamic load into the electrical grid of an urban quarter. 2017, 2017, 1841-1844	0
841	Optimal approach for the interaction between DSOs and aggregators to activate DER flexibility in the distribution grid. 2017, 2017, 1912-1916	5
840	Evaluation of MATPOWER and OpenDSS load flow calculations in power systems using parallel computing. 2017, 2017, 195-204	5
839	Optimum Sizing and Siting of Renewable-Energy-based DG Units in Distribution Systems. 2017, 233-277	3
838	Solving OPF using linear approximations: fundamental analysis and numerical demonstration. 2017, 11, 4115-4125	30
837	Development of a Simulation Framework for Analyzing Security of Supply in Integrated Gas and Electric Power Systems. 2017, 7, 47	23
836	Decentralized Framework for Optimal Price-Based Power System Operation Using Feedback Control Mechanism. 2017, 10, 291	2

835	Case Study on the Socio-Economic Benefit of Allowing Active Power Curtailment to Postpone Grid Upgrades. 2017 , 10, 632	2
834	An Efficient Reactive Power Control Method for Power Network Systems with Solar Photovoltaic Generators Using Sparse Optimization. 2017 , 10, 696	4
833	Economic Assessment of Network-Constrained Transactive Energy for Managing Flexible Demand in Distribution Systems. 2017 , 10, 711	6
832	Evaluation Methodology for Tariff Design under Escalating Penetrations of Distributed Energy Resources. 2017 , 10, 778	3
831	A Novel Sectionalizing Method for Power System Parallel Restoration Based on Minimum Spanning Tree. 2017 , 10, 948	10
830	Electric Power Grids Distribution Generation System for Optimal Location and SizingA Case Study Investigation by Various Optimization Algorithms. 2017 , 10, 960	13
829	A Scatter Search Heuristic for the Optimal Location, Sizing and Contract Pricing of Distributed Generation in Electric Distribution Systems. 2017 , 10, 1449	5
828	Optimal Allocation of Photovoltaic Systems and Energy Storage Systems based on Vulnerability Analysis. 2017 , 10, 1477	5
827	Aging Cost Optimization for Planning and Management of Energy Storage Systems. 2017 , 10, 1916	12
826	Stochastic Dynamic AC Optimal Power Flow Based on a Multivariate Short-Term Wind Power Scenario Forecasting Model. 2017 , 10, 2138	11
825	Utilising residential flexibility in the planning of LV networks. 2017 , 2017, 2576-2580	
824	An integrated approach with redispatch and UPFC for voltage stability enhancement in deregulated power systems. 2017 ,	3
823	Reducing distribution losses using distributed end-user reactive power support. 2017 ,	
822	Implementation and Optimization of GPU-Based Static State Security Analysis in Power Systems. 2017 , 2017, 1-10	2
821	F-DDIA: A Framework for Detecting Data Injection Attacks in Nonlinear Cyber-Physical Systems. 2017 , 2017, 1-12	2
820	Bernstein global optimization approach for distributed optimal power flow problem incorporating emission costs. 2017 ,	
819	Reactance perturbation for enhancing detection of FDI attacks in power system state estimation. 2017 ,	5
818	Peak-demand management for improving undervoltages in distribution systems with electric vehicle connection by stationary battery. 2017 ,	2

817	A new allocation methodology for recovering transmission investment cost. 2017,	0
816	Wholesale electricity pricing in the presence of geographical load balancing. 2017,	2
815	Early stage design evaluation of shipboard power systems using multi-period power flow. 2017,	2
814	Coordination of battery energy storage and power-to-gas in distribution systems. 2017, 2,	11
813	Discovering community structures in power system networks using voltage [Reactive power sensitivity. 2017,	2
812	Power grid state estimation after a cyber-physical attack under the AC power flow model. 2017,	12
811	A Matlab-Based Dynamic Simulation Module for Power System Transients Analysis in the eASiMOV Framework. 2017,	3
810	Toward a characteristic optimal power flow model for temporal constraints. 2017,	2
809	Decentralized power system state estimation via non-convex multi-agent optimization. 2017,	1
808	The effect of solar photovoltaic plant participation on different market structures in the Saudi electricity grid. 2017,	
807	. 2017,	7
806	Sparse tableau relaxation for the optimal power flow problem. 2017,	2
805	Bi-layer multi-objective optimal allocation and sizing of electric vehicle parking garage. 2017,	2
804	Real-time detection of false data injection attack using residual prewhitening in smart grid network. 2017,	3
803	Network-cognizant design of decentralized Volt/VAR controllers. 2017,	4
802	Model-driven real-time control coordination for distribution grids with medium-scale photovoltaic generation. 2017, 11, 1603-1612	5
801	A Hybrid Dynamic System Assessment Methodology for Multi-Modal Transportation-Electrification. 2017, 10, 653	16
800	Static Security Assessment of Power System Using Radial Basis Function Neural Network Module. 2017,	2

799	Consistent and Robust Delimitation of Price Zones Under Uncertainty with an Application to Central Western Europe. 2017 ,	2
798	Optimal PMU Placement for Complete Power System Observability under (P) Contingency. 2017 ,	4
797	Evaluation of Voltage Control Approaches for Future Smart Distribution Networks. 2017 , 10, 1138	3
796	Sociotechnical Network Analysis for Power Grid Resilience in South Korea. 2017 , 2017, 1-14	16
795	Mixed-Integer Linear Programming-Based Splitting Strategies for Power System Islanding Operation Considering Network Connectivity. 2018 , 12, 350-359	39
794	. 2018 , 12, 297-307	21
793	A New Multiattribute Decision Making Support Tool for Identifying Critical Components in Power Transmission Systems. 2018 , 12, 316-327	16
792	. 2018 , 4, 599-612	3
791	Fast Batched Solution for Real-Time Optimal Power Flow With Penetration of Renewable Energy. 2018 , 6, 13898-13910	15
790	A novel fuzzy logic Levenberg-Marquardt method to solve the ill-conditioned power flow problem. 2018 , 99, 299-308	9
789	Integration of voltage dependent power injections of distributed generators into the power flow by using a damped Newton method. 2018 , 99, 695-705	5
788	Lossy DC Power Flow. <i>IEEE Transactions on Power Systems</i> , 2018 , 33, 2477-2485	7 14
787	Management of Cascading Outage Risk Based on Risk Gradient and Markovian Tree Search. <i>IEEE Transactions on Power Systems</i> , 2018 , 33, 4050-4060	7 6
786	Considering controllable devices using standard load flow programs BSSC example. 2018 , 99, 355-362	5
785	A Padé-Weierstrass technique for the rigorous enforcement of control limits in power flow studies. 2018 , 99, 404-418	2
784	Probabilistic load flow calculation by using probability density evolution method. 2018 , 99, 447-453	5
783	Linear method for steady-state analysis of radial distribution systems. 2018 , 99, 744-755	31
782	Cyber Risk Analysis for a Smart Grid: How Smart is Smart Enough? A Multiarmed Bandit Approach to Cyber Security Investment. 2018 , 65, 434-447	25

781	. <i>IEEE Transactions on Power Systems</i> , 2018 , 33, 4924-4936	7	88
780	Power System State Estimation via Feasible Point Pursuit: Algorithms and Cram�r-Rao Bound. 2018 , 66, 1649-1658		23
779	Influence of Stochastic Dependence on Small-Disturbance Stability and Ranking Uncertainties. <i>IEEE Transactions on Power Systems</i> , 2018 , 33, 3227-3235	7	18
778	Validating Two Novel Equivalent Impedance Estimators. <i>IEEE Transactions on Power Systems</i> , 2018 , 33, 1151-1152	7	4
777	Decomposition of Market-Settlement Surplus Using Pseudo-IV-Optimal Power Flow. <i>IEEE Transactions on Power Systems</i> , 2018 , 33, 3812-3821	7	2
776	The impact of increased decentralised generation on the reliability of an existing electricity network. 2018 , 215, 479-502		25
775	A novel efficient method for multiyear multiobjective dynamic transmission system planning. 2018 , 100, 10-18		9
774	Multiple-rank modification of symmetric eigenvalue problem. 2018 , 5, 103-117		4
773	Chance-constrained economic dispatch with renewable energy and storage. 2018 , 70, 479-502		3
772	A Bidding Strategy for Virtual Power Plants With the Intraday Demand Response Exchange Market Using the Stochastic Programming. 2018 , 54, 3044-3055		60
771	A Learning Scheme for Microgrid Reconnection. <i>IEEE Transactions on Power Systems</i> , 2018 , 33, 691-700	7	9
770	A hybrid power system state estimator using synchronized and unsynchronized sensors. 2018 , 28, e2580		13
769	Modelling the energy transition: A nexus of energy system and economic models. 2018 , 20, 229-235		36
768	Globally solving a class of optimal power flow problems in radial networks by tree reduction. 2018 , 72, 373-402		2
767	Approximate optimal transmission switching. 2018 , 161, 1-7		7
766	Distributed generation allocation considering uncertainties. 2018 , 28, e2585		12
765	Challenges Ahead Risk-Based AC Optimal Power Flow Under Uncertainty for Smart Sustainable Power Systems. 2018 , 149-176		1
764	Maintenance optimization of power systems with renewable energy sources integrated. 2018 , 149, 577-586		23

763	. 2018 , 5, 301-312		28
762	Voltage stability constrained multi-objective optimisation model for long-term expansion planning of large-scale wind farms. 2018 , 12, 548-555		14
761	Bilayer Multi-Objective Optimal Allocation and Sizing of Electric Vehicle Parking Garage. 2018 , 54, 1992-2001	19	
760	The Adaptive Robust Multi-Period Alternating Current Optimal Power Flow Problem. <i>IEEE Transactions on Power Systems</i> , 2018 , 33, 1993-2003	7	32
759	Approximate Linear Power Flow Using Logarithmic Transform of Voltage Magnitudes With Reactive Power and Transmission Loss Consideration. <i>IEEE Transactions on Power Systems</i> , 2018 , 33, 4593-4603 ⁴⁶		
758	Linear optimal power flow using cycle flows. 2018 , 158, 126-135		30
757	Least Squares Estimation Based SDP Cuts for SOCP Relaxation of AC OPF. 2018 , 63, 241-248		12
756	Cost-Effective Upgrade of PMU Networks for Fault-Tolerant Sensing. <i>IEEE Transactions on Power Systems</i> , 2018 , 33, 3052-3063	7	9
755	A New Voltage Stability-Constrained Optimal Power-Flow Model: Sufficient Condition, SOCP Representation, and Relaxation. <i>IEEE Transactions on Power Systems</i> , 2018 , 33, 5092-5102	7	30
754	Information gap decision theory to deal with long-term wind energy planning considering voltage stability. 2018 , 147, 451-463		23
753	Distributed Quickest Detection of Cyber-Attacks in Smart Grid. 2018 , 13, 2015-2030		80
752	Reconstruction of measurements in state estimation strategy against deception attacks for cyber physical systems. 2018 , 16, 1-13		7
751	Power Distribution Network Topology Detection With Time-Series Signature Verification Method. <i>IEEE Transactions on Power Systems</i> , 2018 , 33, 3500-3509	7	61
750	Consensus-Based Smart Grid State Estimation Algorithm. 2018 , 14, 3368-3375		45
749	Optimal unit commitment based on second-order cone programming in high wind power penetration scenarios. 2018 , 12, 52-60		11
748	A Distributed Management Scheme for Energy Storage in a Smart Grid With Communication Impairments. 2018 , 14, 1392-1402		18
747	Agglomerative Clustering-Based Network Partitioning for Parallel Power System Restoration. 2018 , 14, 3325-3333		25
746	A Novel Cascading Faults Graph Based Transmission Network Vulnerability Assessment Method. <i>IEEE Transactions on Power Systems</i> , 2018 , 33, 2995-3000	7	42

745	Mean first passage time in the stochastic security analysis of renewable energy power system. 2018 , 42, 1999-2009	5
744	Reservoir Computing Meets Smart Grids: Attack Detection Using Delayed Feedback Networks. 2018 , 14, 734-743	69
743	Identification of False Data Injection Attacks With Considering the Impact of Wind Generation and Topology Reconfigurations. 2018 , 9, 1349-1364	31
742	Opening the black box of energy modelling: Strategies and lessons learned. 2018 , 19, 63-71	112
741	Three-stage method for intentional controlled islanding of power systems. 2018 , 6, 691-700	4
740	Introduction to Smart Grid Functionalities. 2018 , 1-18	2
739	Assessment of power grid vulnerabilities accounting for stochastic loads and model imprecision. 2018 , 98, 219-232	32
738	Optimizing the size of a V2G parking deck in a microgrid. 2018 , 97, 28-39	21
737	Optimal Power Flow For Multi-FACTS Power System Using Hybrid PSO-PS Algorithms. 2018 , 29, 177-191	13
736	A comprehensive framework for optimal day-ahead operational planning of self-healing smart distribution systems. 2018 , 99, 28-44	17
735	Impacts of Operators Behavior on Reliability of Power Grids During Cascading Failures. <i>IEEE Transactions on Power Systems</i> , 2018 , 33, 6013-6024	7 16
734	Smart grid state estimation and stabilisation. 2018 , 102, 152-159	28
733	. 2018 , 5, 1796-1808	
732	Modeling, Tuning, and Validating System Dynamics in Synthetic Electric Grids. <i>IEEE Transactions on Power Systems</i> , 2018 , 33, 6501-6509	7 25
731	Contribution of transmission and voltage constraints to the formation of locational marginal prices. 2018 , 101, 491-499	12
730	Stochastic Optimization of Maintenance and Operations Schedules Under Unexpected Failures. <i>IEEE Transactions on Power Systems</i> , 2018 , 33, 6755-6765	7 26
729	Bilevel transmission expansion planning using second-order cone programming considering wind investment. 2018 , 154, 455-465	18
728	Optimal power flow considering line-conductor temperature limits under high penetration of intermittent renewable energy sources. 2018 , 101, 255-267	10

727	Participation of generating companies in transmission investment in electricity markets. 2018 , 12, 624-632	4
726	A simulation framework for assessing the market and grid driven value of flexibility options in distribution grids. 2018 , 17, 203-212	3
725	Trade-offs between integration and isolation in Switzerland's energy policy. 2018 , 150, 19-27	6
724	Reactive power planning combining the reduced jacobian V-Q and voltage sensitivity indices on the sub-transmission network of a caribbean island power system. 2018 ,	1
723	A multiobjective hybrid bat algorithm for combined economic/emission dispatch. 2018 , 101, 103-115	59
722	Chance-Constrained AC Optimal Power Flow: Reformulations and Efficient Algorithms. <i>IEEE Transactions on Power Systems</i> , 2018 , 33, 2906-2918	7 88
721	On Robust Tie-Line Scheduling in Multi-Area Power Systems. <i>IEEE Transactions on Power Systems</i> , 2018 , 33, 4144-4154	7 12
720	Framework for Network-Constrained Cooperative Trading of Multi-Microgrid Systems. 2020 ,	1
719	A novel MILP-Newton approach for power flow analysis. 2021 , 15, 518-532	1
718	A Hierarchical Attack Identification Method for Nonlinear Systems. 2020 ,	2
717	A Secured and Authenticated State Estimation Approach to Protect Measurements in Smart Grids. 2020 ,	0
716	Comparison of Community-Market Designs: Centralized and Peer-to-peer Trading. 2020 ,	1
715	Gradient Projection, Karush-Khun-Tucker Method for Economic Dispatch and DC Optimal Power Flow System. 2020 ,	0
714	A Convex Neural Network Solver for DCOPF with Generalization Guarantees. 2021 , 1-1	3
713	A Game-Theoretic Framework for Controlled Islanding in the Presence of Adversaries. 2021 , 231-250	1
712	Simultaneous Identification and Correction of Multiple Network Parameter Errors by Mixed-Effects Models. 2021 , 1-1	0
711	Computational and numerical analysis of AC optimal power flow formulations on large-scale power grids. 2022 , 202, 107594	1
710	Stealthy monitoring-control attacks to disrupt power system operations. 2022 , 203, 107636	1

- 709 Multi-stage and resilience-based distribution network expansion planning against hurricanes based on vulnerability and resiliency metrics. **2022**, 136, 107640 1
- 708 Uncertainty handling techniques in power systems: A critical review. **2022**, 203, 107633 2
- 707 Contingency-based Voltage Stability Monitoring via Neural Network with Multi-level Feature Fusion. **2020**, 53, 13483-13488 1
- 706 Chance-Constrained OPF Based on Polynomials Approximation and Cornish-Bisher Expansion. **2020**, 44, 1357-1367 1
- 705 Hierarchical Attack Identification for Distributed Robust Nonlinear Control. **2020**, 53, 6113-6120 3
- 704 Distributed Multi-Agent Optimization Protocol over Energy Management Networks. **2020**, 279-308 1
- 703 A Tri-level Programming Framework for Modelling Attacks and Defences in Cyber-Physical Systems. **2020**, 94-109 1
- 702 Sparsity Preserving Discretization With Error Bounds. **2020**, 53, 3204-3209 1
- 701 Economic Dispatch Cost Reduction in Box-based Robust Unit Commitment. **2020**, 53, 13248-13253 1
- 700 Electrical Challenges Associated with Integrating Renewable Energy Sources into Power Grids. **2020**, 105-130 1
- 699 Sliding mode strategies for monitoring and compensation of cyber-attacks to Cyber-Physical Systems. **2020**, 53, 5159-5164 0
- 698 Unsupervised Situational Assessment for Power Grid Voltage Stability Monitoring Based on Siamese Autoencoder and k-Means Clustering. **2020**, 510-521 1
- 697 Load Flow Analysis of a Six Bus System for a Bulk Scale Replacement of Conventional Lighting Loads in a Distributed Network. **2020**, 105-130 0
- 696 Eigenvector dimension-reduction method for reliability analysis of power systems under the time-dependent load uncertainty. **2021**, 6, 124-132 1
- 695 An Improved Analytical Methodology for Joint Distribution in Probabilistic Load Flow. **2020**, 20, 49-56 1
- 694 Semantic analysis framework for protecting the power grid against monitoring-control attacks. **2020**, 5, 119-126 4
- 693 An Optimal Active Power Scheduling Strategy with Renewable Energy Based on Distributed Consensus Algorithms. **2020**, 53, 13489-13494 1
- 692 Structure-Exploiting Interior Point Methods. **2020**, 63-93 1

691	Enhancing Flexibility at the Transmission-Distribution Interface with Power Flow Routers. <i>IEEE Transactions on Power Systems</i> , 2021 , 1-1	7
690	Robust Optimization in Short-Term Power System Operations. 2021 , 239-279	
689	Bi-level optimal planning model of power flow router based on convex relaxation optimisation and sensitivity analysis method. 2020 , 14, 1912-1921	
688	POWER SYSTEM PLANNING AND OPERATION. 2020 , 39-225	
687	Cascading Failures in Interconnected Power-to-Water Networks. 2020 , 47, 16-20	3
686	A power flow adjustment strategy based on weak bus identification and new bus type conversion. 2021 , 107705	1
685	Worst-Case Sensitivity of DC Optimal Power Flow Problems. 2020 ,	1
684	Probabilistic active distribution network equivalence with correlated uncertain injections for grid analysis. 2020 , 14, 1964-1977	0
683	Model Predictive Control for Dynamic Load Scheduling in Small Power Systems. 2020 ,	0
682	Introduction. 2020 , 3-22	
681	Real-Time Voltage Stability Monitoring Using Machine Learning-Based PMU Measurements. 2021 , 423-448	
680	Merchant transmission investment by generation companies. 2020 , 14, 4728-4737	0
679	Contribution of emergency demand response and emergency loading of overhead lines in network resilience enhancements. 2020 , 14, 5219-5229	
678	Modified tangent vector-based voltage stability constrained optimal power flow considering limit-induced bifurcation. 2020 , 14, 4918-4926	
677	Power system state estimation using conditional generative adversarial network. 2020 , 14, 5823-5833	1
676	Levy Interior Search Algorithm-Based Multi-objective Optimal Reactive Power Dispatch for Voltage Stability Enhancement. 2021 , 221-244	1
675	On the Non-Convexity Degree of Lossy Optimal Power Flow Models: Numerical Studies. 2020 ,	
674	Accelerated Generalized Correntropy Interior Point Method in Power System State Estimation. 2021 , 658-667	0

- 673 Multi-Agent Cooperation Based Reduced-Dimension Q(L) Learning for Optimal Carbon-Energy Combined-Flow. **2020**, 13, 4778 0
- 672 Simple Quadratic Interpolation-Inspired Symbiosis Organisms Search Algorithm for Optimal Placement of Capacitors in Radial Distribution Networks with Different Loading Models. **2020**, 2020, 1-28 1
- 671 Constrained Composite Differential Evolution Search for Optimal Site and Size of Distributed Generation Along with Reconfiguration in Radial Distribution Network. **2020**, 39, 705-718 2
- 670 Decomposition of n -winding transformers for unbalanced optimal power flow. **2020**, 14, 5961-5969 2
- 669 Learning Optimal Power Flow: Worst-Case Guarantees for Neural Networks. **2020**, 11
- 668 Monitoring Data Factorization of High Renewable Energy Penetrated Grids for Probabilistic Static Voltage Stability Assessment. **2021**, 1-1 2
- 667 Joint Adversarial Example and False Data Injection Attacks for State Estimation in Power Systems. **2021**, PP, 2
- 666 Grid-aware aggregation and realtime disaggregation of distributed energy resources in radial networks. *IEEE Transactions on Power Systems*, **2021**, 1-1 7 3
- 665 Optimal Phasor Measurement Unit Placement Using a Honey Bee Mating Optimization (HBMO) Technique Considering Measurement Loss and Line Outages.
- 664 Attack Identification for Nonlinear Systems Based on Sparse Optimization. **2021**, 1-1
- 663 Inclusion of frequency stability constraints in unit commitment using separable programming. **2022**, 203, 107669
- 662 Learning-based line impedance estimation for partially observable distribution systems. **2022**, 137, 107803
- 661 Dynamic State Estimation for Integrated Natural Gas and Electric Power Systems. **2021**, 1
- 660 A Data Driven Threat-Maximizing False Data Injection Attack Detection Method with Spatio-Temporal Correlation. **2021**,
- 659 Credible Reactive Power Regulation Capacity Assessment of DFIG Wind Farms. **2021**, 0
- 658 Operational Challenges and Enabling Technologies for Grid Integration of Electric Vehicles. **2021**,
- 657 Modelling and Operation of a Price-Signal Controlled Market-based Virtual Power Plant. **2021**,
- 656 Benefit Based Transmission Expansion Planning for ASEAN Power Grid. **2021**,

655	An Admittance Matrix Algorithm Solving the Power Flow Solution of the Italian Transmission Network. 2021 ,		
654	Adversarial attack and defense methods for neural network based state estimation in smart grid.	2	
653	Hierarchical collaborative expansion planning for transmission and distribution networks considering transmission cost allocation. 2021 , 118147	0	
652	Optimization and Data Quality Management for Linear Security Analysis Under Limited Synchrophasor Observability. 2021 ,		
651	Optimal reactive power dispatch using an improved slime mould algorithm. 2021 , 7, 8742-8759	17	
650	Solving realistic large-scale ill-conditioned power flow cases based on combination of numerical solvers. e13194		
649	Computational Impacts of Freezing the Jacobian Matrix in the HKW Method for Power Flow Applied to Ill-Conditioned Systems. 2021 ,		
648	Impact of Flow Based Market Coupling on the European Electricity Markets. 1	0	
647	Exploiting the S-Iteration Process for Solving Power Flow Problems: Novel Algorithms and Comprehensive Analysis. 2021 , 10, 3011	0	
646	An Interior-Point Solver for AC Optimal Power Flow Considering Variable Impedance-Based FACTS Devices. 2021 , 9, 154460-154470	2	
645	Optimal Power Scheduling Using Data-Driven Carbon Emission Flow Modelling for Carbon Intensity Control. <i>IEEE Transactions on Power Systems</i> , 2021 , 1-1	7	1
644	Constrained Differential Evolution-Based Stealthy Sparse Cyber-Attack and Countermeasure in an AC Smart Grid. 2021 , 1-1	3	
643	Dynamic Graph-Based Anomaly Detection in the Electrical Grid. <i>IEEE Transactions on Power Systems</i> , 2021 , 1-1	7	0
642	Power-Electronics-Enabled Transactive Energy Market Design for Distribution Networks. 2021 , 1-1	2	
641	Arbitrarily Sparse Polynomial Chaos Expansion for High-Dimensional Parametric Problems: Parametric and Probabilistic Power Flow as an Example. 2021 , 1-10	0	
640	Optimal Operation of Power Systems with Energy Storage under Uncertainty: A Scenario based Method with Strategic Sampling. 2021 , 1-1	2	
639	A Robust Strategy for Leveraging Soft Open Points to Mitigate Load Altering Attacks. 2021 , 1-1	3	
638	. <i>IEEE Transactions on Power Systems</i> , 2021 , 1-1	7	7

637	Explicit Data-Driven Small-Signal Stability Constrained Optimal Power Flow. <i>IEEE Transactions on Power Systems</i> , 2021 , 1-1	7	0
636	Matpower-Based Harmonic Power Flow Analysis for Power Systems With Passive Power Filters. 2021 , 9, 167322-167331		2
635	Augmented State Estimation of Line Parameters in Active Power Distribution Systems with Phasor Measurement Units. 2021 , 1-1		2
634	Data-Driven Dispatchable Regions with Potentially Active Boundaries for Renewable Power Generation: Concept and Construction. 2021 , 1-1		2
633	Imbalanced Sample Generation and Evaluation for Power System Transient Stability Using CTGAN. 2022 , 555-565		0
632	A Meta-Learning Approach to the Optimal Power Flow Problem Under Topology Reconfigurations. 2022 , 1-1		3
631	Efficient Region of Attraction Characterization for Control and Stabilization of Load Tap Changer Dynamics. 2022 , 1-1		0
630	Composite Reliability Impacts of Synchrophasor-Based DTR and SIPS CyberPhysical Systems. 2022 , 1-12		1
629	Targeted demand response for mitigating price volatility and enhancing grid reliability in synthetic Texas electricity markets.. 2022 , 25, 103723		0
628	Distributed control of battery energy storage systems in distribution networks for voltage regulation at transmission-Distribution network interconnection points. 2022 , 119, 104988		1
627	Optimization of Optimal Power Flow Problem Using Multi-Objective Manta Ray Foraging Optimizer. 2022 , 116, 108334		7
626	Demand response programs in power systems with energy storage system-coordinated wind energy sources: A security-constrained problem. 2022 , 335, 130342		3
625	Cascade-risk-informed transmission expansion planning of AC electric power systems. 2022 , 204, 107685		2
624	Solvability region of ACDC power systems with volatile renewable energy sources. 2022 , 8, 1463-1472		0
623	Stealthy and profitable data injection attack on real time electricity market with network model uncertainties. 2022 , 205, 107742		1
622	A hybrid data-driven robust optimization approach for unit commitment considering volatile wind power. 2022 , 205, 107758		1
621	Power economic dispatch against extreme weather conditions: The price of resilience. 2022 , 157, 111994		0
620	Security-constrained economic dispatch exploiting the operational flexibility of transmission networks. 2022 , 138, 107914		1

- 619 Aplicaci3n del m3todo Point Estimation para el c3lculo de flujo de carga probabil3stico en la red de transmissi3n uruguaya - [Not available in English]. **2020,**
- 618 Analysis of Operational Sequences for Congestion Management Measures in Transmission Grids. **2020,**
- 617 Power Reserve Dispatch to Mitigate Variability of Generation Output due to Wind Ramps. **2020,**
- 616 Towards Embedding Network Usage Charges Within a Peer-to-Peer Electricity Marketplace. **2020,** 1
- 615 The Effect of the Type and Composition of Demand on DSM Contribution to System Frequency Stability. **2020,**
- 614 Dynamic Modeling of Wind and Solar Power Generation with Grid Support for Large-Scale Integration in Power Systems. **2020,** 0
- 613 Using DQ0 Signals based on the Central Angle Reference Frame to Model the Dynamics of Large-scale Power Systems. **2020,** 1
- 612 A Model Predictive Control Algorithm for large-scale Integration of Electromobility. **2020,** 0
- 611 Graph Signal Processing for Infrastructure Resilience: Suitability and Future Directions. **2020,** 2
- 610 Performance Test Method of Condenser based on Virtual Power Dispatching Techonology. **2020,**
- 609 Identification of Smart Grid Attacks via State Vector Estimator and Support Vector Machine Methods. **2020,**
- 608 Reserve Cost Allocation on Wheeling Using Tracing Method. **2020,**
- 607 Improving the AC Transmission Expansion Planning by Using Initial Solutions Algorithms. **2020,** 0
- 606 A Circuit-Theoretic Approach to State Estimation. **2020,** 1
- 605 An N-1 Short-Time Security Constrained Dispatch for Hybrid AC/DC Power Systems: Chance Constrained Approach. **2020,**
- 604 DLR based Preventive Dispatch for Mitigating Wind Power Uncertainty Induced Line Overloads. **2020,** 1
- 603 Research on Distribution Network Topology and Energy Management Considering Energy Router Port Interconnection. **2020,** 0
- 602 Power Flow Calculation using Integrated Circuit Simulator. **2020,**

601	Weather-Dependent AC Power Flow Algorithms. 2020,	
600	Roles of Pumped Hydro Storages in Optimal Scheduling of Future Taiwan Power System with Highly Penetrated Renewable Energy Resources. 2020,	
599	Computation of Worst-case Operation Scenarios against False Data Injection Attacks Considering Load Demand and Generation Uncertainties. 2020,	
598	Probabilistic Power Flow Analysis Based on Low Rank Approximation and Principle Component Analysis. 2020,	1
597	Probabilistic Power Flow Solution with Graph Convolutional Network. 2020,	3
596	Study on Power Flow Linearization Based on Error Correction of Voltage Profiles. 2020,	
595	Reducing BESS Capacity for Accommodating Renewables in Subtransmission Systems with Power Flow Routers. 2020,	2
594	Impact Analysis of EV Preconditioning on the Residential Distribution Network. 2020,	1
593	Mitigating Cascading Failures via Local Responses. 2020,	
592	DER Information Unaware Coordination via Day-ahead Dynamic Power Bounds. 2020,	
591	Generation Scheduling to Limit PM2.5Emissions and Dispersion: A Study on the Seasonal Management System of South Korea. 2020,	
590	Detection Method for Tolerable False Data Injection Attack Based on Deep Learning Framework. 2020,	1
589	Evaluation of Modeling Differences of Nodal vs. Zonal Pricing Based Electricity Markets: Optimization Models and Network Representation. 2020,	0
588	Generation Schedule Considering Branch Security Check under New Energy Access. 2020,	
587	Information Theoretic Data Injection Attacks with Sparsity Constraints. 2020,	1
586	A Distributed Approach for Estimation of Information Matrix in Smart Grids and its Application for Anomaly Detection. 2020,	0
585	Data-Driven Robust Voltage/VAR Control Using PV Inverters in Active Distribution Networks. 2020,	1
584	Comparison of ESS configurations and IC control technologies in islanded hybrid AC/DC microgrids. 2020,	

583	Comparative Study of Voltage Security Indices in Terms of Limit-Induced Bifurcation Effect. 2020 ,		0
582	DeepOPF+: A Deep Neural Network Approach for DC Optimal Power Flow for Ensuring Feasibility. 2020 ,		6
581	Voltage Estimation of Distribution Network Based on Mean Impedance Method. 2020 ,		
580	Probabilistic Zonal Reserve Requirements for Improved Energy Management and Deliverability With Wind Power Uncertainty. <i>IEEE Transactions on Power Systems</i> , 2020 , 35, 4324-4334	7	3
579	Machine Learning for the Uncertainty Quantification of Power Networks. 2020 , 2, 138-141		0
578	A Machine Learning-based Reliability Evaluation Model for Integrated Power-Gas Systems. <i>IEEE Transactions on Power Systems</i> , 2021 , 1-1	7	0
577	Three-Stage Hierarchically-Coordinated Volt-age/Var Control based on PV Inverters Considering Network Voltage Stability. 2021 , 1-1		1
576	An Enhanced Energy Management System Including a Real-Time Load-Redistribution Threat Analysis Tool and Cyber-Physical SCED. <i>IEEE Transactions on Power Systems</i> , 2021 , 1-1	7	1
575	A Probability Box Representation Method for Power Flow Analysis Considering Both Interval and Probabilistic Uncertainties.		
574	Distributed Measurement-based Optimal DER Dispatch with Estimated Sensitivity Models. 2021 , 1-1		
573	FDI Attack Detection Scheme based on Nonlinear Prediction and Deep Learning. 2021 ,		
572	Two-Stage Robust Unit Commitment with Uncertain Demand Response. 2021 ,		
571	Versatile and Robust Transient Stability Assessment via Instance Transfer Learning. 2021 ,		0
570	CONICOPF: Conic Relaxations for AC Optimal Power Flow Computations. 2021 ,		
569	Evaluation of AC optimal power flow on graphical processing units. 2021 ,		0
568	A Joint Sequential State Estimation Algorithm for VSC-MTDC Systems Using Virtual Connections. 2021 ,		
567	Feasible Point Pursuit Based Sequential Convex Approximation of Optimal Power Flow. 2021 ,		0
566	Toward Characterization of the Feasible Injection Region of Distributed Generations with Different Control Modes. 2021 ,		

- 565 Peer-to-Peer Power Trading with Voltage and Congestion Management for Distribution Grids. **2021**,
,
- 564 Distributed Optimal Power Flow for Unbalanced Radial Systems with Time-varying Communication. **2021**,
- 563 Smart FDI Attack Design and Detection with Data Transmutation Framework for Smart Grids. **2021**,
- 562 Topology Learning Aided False Data Injection Attack without Prior Topology Information. **2021**, 0
- 561 Detection of Cyber-Physical Attacks Aiming at Multi Transmission Line Congestions Using Dynamic State-Estimation. **2021**,
- 560 On the Simultaneous Estimation of Dynamic and Algebraic States in Power Networks via State Observer. **2021**, 1
- 559 Sampling of Power System Graph Signals. **2021**, 1
- 558 On the Tightness of Convex Optimal Power Flow Model Based on Power Loss Relaxation. **2021**,
- 557 Matheuristics for Speeding Up the Solution of the Unit Commitment Problem. **2021**, 0
- 556 Physics-Informed Neural Networks for Minimising Worst-Case Violations in DC Optimal Power Flow. **2021**, 2
- 555 Grid Topology Estimation in Electrical Markets via Diagonally Dominant Laplacian. **2021**,
- 554 Data-Driven, Multi-Region Distributed State Estimation for Smart Grids. **2021**,
- 553 Consideration of Power Line Capacity and Impact on Voltage Band Compliance in Local Energy Markets. **2021**, 1
- 552 A Design for an Urban Electricity Market to Reduce the Expansion of the Low Voltage Distribution Grid. **2021**, 0
- 551 Hybrid Method Based on Metaheuristics and Interior Point for Optimal Power Flow. **2021**,
- 550 A Study of Repairable Failure Models of Aging Underground Power Distribution Cables. **2021**,
- 549 Reflection of Cyber and Physical Stresses in Smart Grids on their Graph Signals. **2021**, 1
- 548 Enhancing Distribution Grid Resilience to Power Outages Using Electric Vehicles in Residential Microgrids. **2021**,

547	Analyzing Various Aspects of Network Losses in Peer-to-Peer Electricity Trading. 2022 , 15, 686		0
546	Exploring Targeted and Stealthy False Data Injection Attacks via Adversarial Machine Learning. 2022 , 1-1		1
545	Future grid architectures. 2022 , 233-270		
544	Smooth Power Flow Model for Unified Voltage Stability Assessment: Theory and Computation. <i>IEEE Transactions on Power Systems</i> , 2022 , 1-1	7	0
543	Convex Neural Networks Based Reinforcement Learning for Load Frequency Control under Denial of Service Attacks. 2022 , 15, 34		1
542	Multi-objective Adaptive Guided Differential Evolution for Multi-objective Optimal Power Flow Incorporating Wind-Solar-Small Hydro-Tidal Energy Sources. 2022 , 341-365		0
541	Optimal Power Flow in AC/DC Microgrids with Enhanced Interlinking Converter Modeling. 2022 , 1-1		1
540	Dynamic Reduced-Order Observer-Based Detection of False Data Injection Attacks With Application to Smart Grid Systems. 2022 , 1-1		2
539	A Scalable Formulation for Look-ahead Security-Constrained Optimal Power Flow. 2022 , 1-1		0
538	A Cooperative Hierarchical Multi-Agent System for EV Charging Scheduling in Presence of Multiple Charging Stations. 2022 , 1-1		2
537	Stochastic Approach to Hosting Limit of Transmission System and Improving Method Utilizing HVDC. 2022 , 12, 696		
536	Topology-aware Learning Assisted Branch and Ramp Constraints Screening for Dynamic Economic Dispatch. <i>IEEE Transactions on Power Systems</i> , 2022 , 1-1	7	
535	Security-Constrained Unit Commitment for Hybrid VSC-MTDC/AC Power Systems With High Penetration of Wind Generation. 2022 , 10, 14029-14037		
534	Agent-Supervisor Coordination for Decentralized Event-Triggered Optimization. 2022 , 6, 1970-1975		
533	Uniqueness of Power Flow Solutions Using Graph-theoretic Notions. 2022 , 1-1		
532	Blind false data injection attacks in smart grids subject to measurement outliers. 1-10		1
531	Bi-level Volt/VAR Optimization in Distribution Networks with Smart PV Inverters. <i>IEEE Transactions on Power Systems</i> , 2022 , 1-1	7	1
530	A Data-Driven Genetic Algorithm for Power Flow Optimization in the Power System With Phase Shifting Transformer. 2022 , 9,		0

529	Bi-Level Optimization Dispatch of Integrated-Energy Systems With P2G and Carbon Capture. 2022 , 9,		1
528	Smart grids: control and cybersecurity. 2022 , 53-101		
527	Multi-Objective Approach for Managing Uncertain Delivery from Renewable Energy Sources within a Peer-to-Peer Energy Balancing Architecture. 2022 , 15, 675		1
526	Stochastic Robust Real-Time Power Dispatch with Wind Uncertainty using Difference-of-Convexity Optimization. <i>IEEE Transactions on Power Systems</i> , 2022 , 1-1	7	1
525	Effects of High Level of Penetration of Renewable Energy Sources on Cascading Failure of Modern Power Systems. 2022 , 1-1		0
524	Study on Power Grid Partition and Attack Strategies Based on Complex Networks. 2022 , 9,		
523	A novel method for online voltage stability assessment based on PMU measurements and Thevenin equivalent.		1
522	Feedback Power Cost Optimization in Power Distribution Networks with Prosumers. 2022 , 1-1		1
521	Data-driven Priors for Robust PSSE via Gauss-Newton Unrolled Neural Networks. 2022 , 1-1		1
520	Approximating multi-purpose AC Optimal Power Flow with reinforcement trained Artificial Neural Network. 2022 , 7, 100133		1
519	Failure Probability Constrained AC Optimal Power Flow. <i>IEEE Transactions on Power Systems</i> , 2022 , 1-1	7	
518	Mathematical programming formulations for the alternating current optimal power flow problem. 1		0
517	Convergence Analysis of Fixed Point Chance Constrained Optimal Power Flow Problems. <i>IEEE Transactions on Power Systems</i> , 2022 , 1-1	7	
516	Flow and Elastic Networks on the \mathbb{R} -Torus: Geometry, Analysis, and Computation. 2022 , 64, 59-104		1
515	Resiliency enhancement of power system against intentional attacks.		1
514	FDI attack detection using extra trees algorithm and deep learning algorithm-autoencoder in smart grid. 2022 , 37, 100508		3
513	Impact of Probabilistic Modelling of Wind Speed on Power System Voltage Profile and Voltage Stability Analysis. 2022 , 206, 107807		0
512	Norton's current theorem based online voltage stability analysis for wind connected power grid. 2022 , 138, 107962		

511	A two-stage stochastic programming model for the sizing and location of DERs considering electric vehicles and demand response. 2022 , 30, 100624		0
510	Synergistic use of intrusive and non-intrusive model order reduction techniques for dynamical power grids. 2022 , 138, 107908		0
509	A Hybrid Data-driven Method for Fast Solution of Security-Constrained Optimal Power Flow. <i>IEEE Transactions on Power Systems</i> , 2022 , 1-1	7	0
508	Examining Impact of Distribution System Characteristics on Transmission Security Assessment of Future Power Systems. 2022 , 1-1		1
507	A Novel Continuous Permutation Method for Wind Power Correlation Analysis. 2022 , 1-4		
506	Deep Reinforcement Learning-Aided Bidding Strategies for Transactive Energy Market. 2022 , 1-9		3
505	Distributionally Robust Joint Chance-Constrained Dispatch for Integrated Transmission-Distribution Systems via Distributed Optimization. 2022 , 1-1		1
504	Building Marginal Pattern Library with Unbiased Training Dataset for Enhancing Model-Free Load-ED Mapping. 2022 , 1-1		
503	Environmental and Socio-Economic Implications of Woody Biomass Co-firing at Coal-Fired Power Plants. 2022 , 101296		1
502	Investigating the Impact of Electric Vehicles Demand on the Distribution Network. 2022 , 15, 1180		2
501	Steady-State Analysis of Electrical Networks in Pandapower Software: Computational Performances of NewtonRaphson, NewtonRaphson with Iwamoto Multiplier, and GaussSeidel Methods. 2022 , 14, 2002		1
500	A charging station planning model considering electric bus aggregators. 2022 , 30, 100638		1
499	Performance assessment of two-timescale multi-objective volt/var optimization scheme considering EV charging stations, BESSs, and RESs in active distribution networks. 2022 , 207, 107843		1
498	A fully decentralized machine learning algorithm for optimal power flow with cooperative information exchange. 2022 , 139, 107990		0
497	Balancing accuracy and complexity in optimisation models of distributed energy systems and microgrids with optimal power flow: A review. 2022 , 52, 102066		0
496	A Practical Approach to Flexibility Provisionassessment in an Unobservable Distribution Network.		
495	Automatic Generation Control Considering Uncertainties of the Key Parameters in the Frequency Response Model. <i>IEEE Transactions on Power Systems</i> , 2022 , 1-1	7	0
494	Reliability-oriented Reconfiguration of Power Distribution Systems Considering Load and RES Production Scenarios. 2022 , 1-1		

- 493 Chance-Constrained OPF in Droop-Controlled Microgrids with Power Flow Routers. **2022**, 1-1
- 492 Observers for Differential Algebraic Equation Models of Power Networks: Jointly Estimating Dynamic and Algebraic States. **2022**, 1-1 1
- 491 ConvOPF-DOP: A Data-driven Method for solving AC-OPF based on CNN considering different operation patterns. *IEEE Transactions on Power Systems*, **2022**, 1-1 7 2
- 490 Distributed Scheme for Line Overload Mitigation with Linearized AC Power Flow. **2022**, 1-1
- 489 Dynamic Line Rating-based Robust Corrective Dispatch against Load Redistribution Attacks with Unknown Objectives. **2022**, 1-1
- 488 Intelligent Method for Installation and Investigation of VSC-HVDC Converter Using Metaheuristic Algorithm: A Case Study of Unified Optimal Power Flow Problem. **2022**, 185-209
- 487 Noise-Resilient Quantum Machine Learning for Stability Assessment of Power Systems. *IEEE Transactions on Power Systems*, **2022**, 1-1 7 2
- 486 Transient Stability and Active Protection of Power Systems with Grid-Forming PV Power Plants. *IEEE Transactions on Power Systems*, **2022**, 1-1 7 1
- 485 Loss Minimization of Optimal Power Flow with Stochastic Solar Power Generation Using Improved Salp Swarm Algorithm. **2022**, 135-146
- 484 Data Integrity Attack in Dynamic State Estimation of Smart Grid: Attack Model and Countermeasures. **2022**, 1-14 0
- 483 An Application of Teaching-Learning-Based Optimization for Solving the Optimal Power Flow Problem with Stochastic Wind and Solar Power Generators.
- 482 Cyber-Physical Attack Conduction and Detection in Decentralized Power Systems. **2022**, 10, 29277-29286 0
- 481 Blind False Data Injection Attacks Against State Estimation Based on Matrix Reconstruction. **2022**, 1-1 2
- 480 Nsga-III Integrating Eliminating Strategy and Dynamic Constraint Relaxation Mechanism to Solve Many-Objective Optimal Power Flow Problem.
- 479 A Distributed Dual-Optimization Framework for Ancillary-Service Coordination Between MV Microgrids and LV Distribution Networks. **2022**, 1-12
- 478 Convex Relaxation of AC Optimal Power Flow with Flexible Transmission Line Impedances. *IEEE Transactions on Power Systems*, **2022**, 1-1 7
- 477 Formulation and Visualization of Bus Voltage-Var Safety Regions for a Power System. *IEEE Transactions on Power Systems*, **2022**, 1-1 7 0
- 476 Using the Barnacles Mating Optimizer with Effective Constraints Handling Technique for Cost Minimization of Optimal Power Flow Solution. **2022**, 47-55

475 Impact of OLTC on Nodal Pricing of Distribution System and Comparison with DSTATCOM. **2022**, 1-14

474 Understanding Communities From a New Functional Perspective in Power Grids. **2022**, 1-12

0

473 Optimal Operation for Hybrid AC and DC Systems Considering Branch Switching and VSC Control. **2022**, 1-9

1

472 A Double-Benefit Moving Target Defense Against Cyber-Physical Attacks in Smart Grid. **2022**, 1-1

2

471 Novel Design of Slim Mould Optimizer for the Solution of Optimal Power Flow Problems Incorporating Intermittent Sources: A Case Study of Algerian Electricity Grid. **2022**, 10, 22646-22661

2

470 Relaxed Connected Dominating Set Problem for Power System Cyber-Physical Security. **2022**, 1-1

469 Enable a Carbon Efficient Power Grid via Minimal Uplift Payments. **2022**, 1-1

2

468 Collective nonlinear dynamics and self-organization in decentralized power grids. **2022**, 94,

9

467 Efficient Identification of Multiple Parameter Errors in Power Grids by Mixed-Effects Models and Generalized Least Squares. **2022**, 10,

466 Numerical Probabilistic Load Flow Analysis in Modern Power Systems with Intermittent Energy Sources. **2022**, 15, 2038

0

465 Smart grid dispatch powered by deep learning: a survey. 1

1

464 A novel method for transmission system cost allocation with better accuracy and fairness. **2022**, 47, 1

463 Solving certain complementarity problems in power markets via convex programming.

0

462 Sharpening the Universality of Network Resilience Patterns using Motifs. **2022**, 2207, 012010

461 Stochastic Steady-State Security Assessment for Power System Operation by Chance Constrained Optimal Power Flow-Based Load Shedding. **2022**, 10,

460 Braess's paradox for power flow feasibility and parametric uncertainties in DC power grids with constant-power loads. **2022**, 161, 105146

459 Hybridizing of Whale and Moth-Flame Optimization Algorithms to Solve Diverse Scales of Optimal Power Flow Problem. **2022**, 11, 831

7

458 Efficient simulation of coupled gas and power networks under uncertain demands. 1-27

457	Detection of false data injection attacks leading to line congestions using Neural Networks. 2022 , 103861	0
456	Matryoshka and disjoint cluster synchronization of networks.. 2022 , 32, 041101	2
455	Developing chaotic Bonobo optimizer for optimal power flow analysis considering stochastic renewable energy resources.	3
454	Integrated Optimal Planning of Distribution Network With Geographical-Zone-Restricted Renewable Energy Sources. 2022 , 10,	1
453	Identification of Important Locational, Physical and Economic Dimensions in Power System Transient Stability Margin Estimation. 2022 , 13, 1135-1146	0
452	Electricity market design and implementation in the presence of asymmetrically informed strategic producers and consumers: A surrogate optimization-based mechanism. 2022 , 109, 105929	0
451	Enhancing the resilience of critical infrastructures: Statistical analysis of power grid spectral clustering and post-contingency vulnerability metrics. 2022 , 159, 112185	1
450	Robustness analysis of cyber-coupled power systems with considerations of interdependence of structures, operations and dynamic behaviors. 2022 , 596, 127215	0
449	A two-layer framework for optimal control of battery temperature and microgrid operation. 2022 , 50, 104057	0
448	A MILP-based heuristic algorithm for transmission expansion planning problems. 2022 , 208, 107882	0
447	A normal form-based power system out-of-step protection. 2022 , 208, 107873	
446	Global sensitivity analysis of static voltage stability based on extended affine model. 2022 , 208, 107872	0
445	Transmission expansion planning with optimal transmission switching considering uncertain n-k contingency and renewables. 2022 , 8, 573-583	1
444	Detection of false data injection attack in power information physical system based on SVM \square AB algorithm. 2022 , 8, 1156-1164	1
443	Modeling and open source implementation of balanced and unbalanced harmonic analysis in radial distribution networks. 2022 , 209, 107935	0
442	Development of a Boundary Assigned Animal Migration Optimization algorithm and its application to optimal power flow study. 2022 , 200, 116776	1
441	BATTPOWER application: Large-scale integration of EVs in an active distribution grid [A Norwegian case study. 2022 , 209, 107967	1
440	Data Driven Approach for Optimal Power Flow in Distribution Network. 2021 ,	0

- 439 Optimal Operation of Gas-Electricity Integrated Energy Systems with Demand Response. **2021,**
- 438 A Two-Stage Maintenance-Operation Robust Optimization Model Considering Line Forced Outage. **2021,**
- 437 Real-Time Recursive Correction State Estimation Utilizing Only SCADA Measurements. **2021,** ○
- 436 A Non-iterative Solution Method for DC Optimal Power Flow Based on Holomorphic Embedding. **2021,**
- 435 Planning of Virtual Microgrids by Integrated Partition and DER Allocation. **2021,**
- 434 State Estimation in Smart Grids Using Temporal Graph Convolution Networks. **2021,** ○
- 433 Congestion Management Based on Minimization of TCC and Optimal Placement & Sizing of DG. **2021,**
- 432 Smart Grids Simulation Tools: Overview and Recommendations. **2021,**
- 431 Real-time Optimal Dispatch of Behind-the-Meter DERs for Secondary Frequency Regulation. **2021,**
- 430 Transmission Adaptive Capacity-Based Resilience Metrics for Power Grid Contingency Analysis. **2021,** ○
- 429 Optimal Power Flow Estimation Using One-Dimensional Convolutional Neural Network. **2021,** ○
- 428 Optimal Operation for the IEEE 33 Bus Benchmark Test System With Energy Storage. **2021,** 1
- 427 A Comparative Analysis of Flow-Based Resilience Indices Using Topological and Load Flow Models. **2021,** ○
- 426 Characterization and Classification of Cyber Attacks in Smart Grids using Local Smoothness of Graph Signals. **2021,** ○
- 425 A Novel Open Source Power Systems Computational Toolbox. **2021,**
- 424 Branch Decomposition Based Dynamic Programming Method for Double Dominating Set Problem in Power Systems Applications. **2021,**
- 423 Robust Abnormal Detection in Large-scale Power Systems with Unknown Noise Statistics. **2021,**
- 422 Power Congestion Management of a sub-Transmission Area Power Network using Partial Renewable Power Curtailment via MPC. **2021,**

- 421 Optimal Defence Resource Allocation for Power Transmission Lines using Game Theory. **2021**,
- 420 Energy and Reserve Scheduling Based on Security Constrained Convex Optimal Power Flow Considering Wind Power Generation in Europe. **2021**,
- 419 Day-ahead Energy Market Framework Utilizing Transmission-Distribution Coordination. **2021**,
- 418 Functional observability and target state estimation in large-scale networks.. **2022**, 119, o
- 417 Statistical Machine Learning Model for Uncertainty Planning of Distributed Renewable Energy Sources in Distribution Networks. **2021**, 9, o
- 416 A new approach to Analysis the Impact of Demand Side Management for Temperature Control Load Consideration in a Test Bus System. **2021**, o
- 415 Data-driven modeling of power networks1. **2021**,
- 414 Verifying Global Optimality of Candidate Solutions to Polynomial Optimization Problems using a Determinant Relaxation Hierarchy. **2021**,
- 413 An Inverse Nash Mean Field Game-based Strategy for the Decentralized Control of Thermostatic Loads. **2021**, o
- 412 A Riemannian Augmented Lagrangian Method for the Optimal Power Flow Problem in Radial Distribution Networks. **2021**,
- 411 Physics Interpretable Shallow-Deep Neural Networks for Physical System Identification with Unobservability. **2021**, 1
- 410 A Reinforcement Learning-Based Detection Method for False Data Injection Attack in Distributed Smart Grid. **2021**,
- 409 A Joint Chance Constrained Economic Dispatch Model Considering Wind Generation and Dynamic Line Rating. **2021**,
- 408 Allocation of phasor measurement unit using an admissible searching-based algorithm A-star and binary search tree for full interconnected power network observability. 1
- 407 Fast Economic Dispatch by Identifying Active Security Constraints Based on Sparse Polynomial Chaos Expansion. **2021**,
- 406 A New Family of Feasible Methods for Distributed Resource Allocation. **2021**, 2
- 405 Molding the Impact of All-Electric Suburbs on Power Grids Using Probabilistic Load Flow. **2021**,
- 404 A Heuristic Methods-Based Power Distribution System Optimization Toolbox. **2022**, 15, 14 o

403 Time-domain graphic interface for teaching transient stability.

402 An Excitation Mode Analysis Method for Multi-Machine Systems Based on Minimum Characteristic Loci. **2021**,

401 Performance Evaluation of Distribution Network Based on Attribute Mathematics. **2021**,

400 Distributed Generation Installation by Expansion Planning through optimization to support Grid. **2021**,

399 Safe Model-Free Optimal Voltage Control via Continuous-Time Zeroth-Order Methods. **2021**, 1

398 An essentially decentralized interior point method for control. **2021**, 2

397 Alternative Regression Approach for Data-Driven Power Flow Linearization Methods. **2021**,

396 Data-driven Critical Factor Identification for Sending-end Planning with Multi-outfeed HVDC. **2021**,

395 Estimating the reactive power potential of distribution networks. **2020**, 2020, 618-621

394 Directive-Based Hybrid Parallel Power System Dynamic Simulation on Multi-core CPU and Many-Core GPU Architecture. **2021**, 405-416 1

393 Distributed Machine Learning in Energy Management and Control in Smart Grid. **2022**, 219-251

392 Probabilistic Power Flow of AC/DC Hybrid Grids with Addressing Boundary Issue of Correlated Uncertainty Sources. **2022**, 1-1 1

391 Robust Dynamic State Estimator of Integrated Energy Systems based on Natural Gas Partial Differential Equations. **2022**, 1-1 2

390 A Data-Driven Pool Strategy for Price-Makers Under Imperfect Information. *IEEE Transactions on Power Systems*, **2022**, 1-1 7

389 An Ecological Robustness Oriented Optimal Power Flow for Power Systems' Survivability. *IEEE Transactions on Power Systems*, **2022**, 1-1 7 0

388 Effects of Pseudo-Measurements on GPS Spoofed Power System State Estimation. **2022**,

387 Case Study of Enhancing the MATPOWER Polish Electric Grid. **2022**,

386 On the Impacts of Different Consistency Constraint Formulations for Distributed Optimal Power Flow. **2022**, 0

- 385 Distributed Optimal Power Flow Control Topology. **2022**,
- 384 On Optimal Settings for a Family of Runge-Kutta-Based Power-Flow Solvers Suitable for Large-Scale Ill-Conditioned Cases. **2022**, 10, 1279
- 383 Data-driven state estimation of integrated electric-gas energy system. **2022**, 124049 0
- 382 The waiting-time distribution for network partitions in cascading failures in power networks. **2022**, 127381
- 381 Network Reconfiguration and Distributed Generation Placement for Multi-Goal Function Based on Improved Moth Swarm Algorithm. **2022**, 2022, 1-16 0
- 380 Efficient and robust power and energy management for large clusters of plug-in electric vehicles and distribution networks. 1
- 379 Resilience Assessment for Microgrid with Pre-Position and Reconfiguration of Emergency Distribution Generations under Natural Hazard. **2022**, 2022, 1-12
- 378 A parallel and asynchronous state estimation for coupled transmission-distribution networks. **2022**, 141, 108163
- 377 Multi-objective ACOPF using distributed gradient dynamics. **2022**, 141, 107934
- 376 Real-Time Topology Detection and State Estimation in Distribution Systems Using Micro-PMU and Smart Meter Data. **2022**, 1-12 0
- 375 The Influence of the Increasing Penetration of Photovoltaic Generation on Integrated Transmission-Distribution Power Systems. **2022**, 15-35
- 374 Attack-Resilient Optimal PMU Placement via Reinforcement Learning Guided Tree Search in Smart Grids. **2022**, 1-1 1
- 373 Virtual Generator-Storage Pairing for Robust Multistage Decisions in Power Systems. **2022**, 1-12
- 372 Revealing Vulnerability of N-1 Secure Power Systems to Coordinated Cyber-Physical Attacks. *IEEE Transactions on Power Systems*, **2022**, 1-1 7 1
- 371 Enabling methodologies for reducing the computational burden in AA-based computing. **2022**, 105-122
- 370 Multiobjective Planning Strategy for the Placement of Electric-Vehicle Charging Stations Using Hybrid Optimization Algorithm. **2022**, 10, 48088-48101 2
- 369 Machine Learning for Cyber-Physical Power System Security. **2022**, 105-124
- 368 Sparse Data Injection Attacks on Smart Grid: An Information-Theoretic Approach. **2022**, 1-1 1

367	Physics-Constrained Robustness Verification of Intelligent Security Assessment for Power Systems. <i>IEEE Transactions on Power Systems</i> , 2022 , 1-1	7	1
366	Online Estimation of Plant Participation Factors for Automatic Generation Control in Power Systems with Variable Energy Resources. 2022 , 1-1		0
365	Pricing for TSO-DSO Coordination: A Decentralized Incentive Compatible Approach. <i>IEEE Transactions on Power Systems</i> , 2022 , 1-1	7	
364	False Data Injection Enabled Network Parameter Modifications in Power Systems: Attack and Detection. 2022 , 1-1		1
363	Planning of distributed energy storage by a complex network approach. 2022 , 14, 024102		0
362	Recent Developments in Open Source Simulation Software pandapower and pandapipes. 2022 ,		0
361	State Prediction for Smart Grids under DoS Attack using State Correlations under optimized PMU deployment. 2022 ,		
360	Contingency Analysis in Power System- Using UPFC and DVR Devices with RDOA. 2022 , 7, 1		0
359	Moving Beyond Open-Source Modelling: Why Open Control and Protection Software in Real Converters Will Be Useful. 2022 ,		
358	Incorporating AC Power Flow into the Multi-Energy System Optimization Framework COMANDO. 2022 ,		
357	OBPSO Kullanarak Dağıtık Enerji Sistemlerinin Optimum Balancing Yerin Belirlenmesi. 940-952		
356	Wind integrated optimal power flow considering power losses, voltage deviation, and emission using equilibrium optimization algorithm. 1		1
355	Modelling and Simulation/Optimisation of Austria's National Multi-Energy System with a High Degree of Spatial and Temporal Resolution. 2022 , 15, 3581		0
354	Classifying resilience approaches for protecting smart grids against cyber threats. 1		1
353	A maiden application of Jaccard similarity for identification of tripped branch utilizing current synchronized measurement considering false data injection attack. 2022 , 196, 111259		0
352	A quadratic voltage model with modifications for optimal power flow of meshed networks. 2022 , 142, 108191		
351	Stochastic local flexibility market design, bidding, and dispatch for distribution grid operations. 2022 , 253, 123989		0
350	Voltage Stability Constrained Moving Target Defense against Net Load Redistribution Attacks. 2022 , 1-1		2

- 349 General Power Flow Calculation for Multi-terminal HVDC System Based on Sensitivity Analysis and Extended AC Grid Method. **2022**, 1-1
- 348 Analytical Uncertainty Propagation for Multi-Period Stochastic Optimal Power Flow. **2022**, 1-1 0
- 347 Load Margin Constrained Moving Target Defense against False Data Injection Attacks. **2022**, 1-1 1
- 346 A Graph Signal Processing Framework for Detecting and Locating Cyber and Physical Stresses in Smart Grids. **2022**, 1-1 1
- 345 Distribution Systems AC State Estimation via Sparse AMI Data Using Graph Signal Processing. **2022**, 1-1 1
- 344 Different Scenario Analysis of PJM 5-Bus Test System by Changing Load Demand. **2022**, 1-1 0
- 343 Vulnerability Assessment of Power System Under N-1 Contingency Conditions. **2022**, 1-1 0
- 342 Economic Loss Utilized Probabilistic Defense against Load Redistribution Attacks by Selecting Optimal Critical Measuring Units. **2022**, 7, 1-1 1
- 341 Cross-layered distributed data-driven framework for enhanced smart grid cyber-physical security. **2022**, 1-1 1
- 340 Optimal Power Flow of Renewable-Integrated Power Systems Using a Gaussian Bare-Bones Levy-Flight Firefly Algorithm. **2022**, 10, 1-1 0
- 339 Decentralized Coordination Dispatch Model Based on Chaotic Mutation Harris Hawks Optimization Algorithm. **2022**, 15, 3815 1
- 338 Flat start guess homotopy-based power flow method guided by fictitious network compensation control. **2022**, 142, 108311 2
- 337 A new swarm intelligence optimization approach to solve power flow optimization problem incorporating conflicting and fuel cost based objective functions. **2022**, 2, 100031 1
- 336 A Fast and Scalable Transmission Switching Algorithm for Boosting Resilience of Electric Grids Impacted by Extreme Weather Events. **2022**, 1-1 2
- 335 Locational Marginal Pricing Based Management of Congestion with Optimum Sizing of Distributed Generator using Modified ILSHADE Algorithm. **2022**, 1-1 1
- 334 Non-Convex Optimal Power Flow Implementation by Distributed Meta-Heuristic Optimization Algorithm. **2022**, 1-1 1
- 333 Global Sensitivity Analysis for Power System with Correlated Inputs Based on the Modified ANCOVA Indices. **2022**, 1-1 1
- 332 Analysis of Quasi-steady-state Sensitivity Matrix Based on DC Power Flow. **2022**, 1-1 1

- 331 Multi-Objective Optimal Power Flow with efficient Constraint Handling using Hybrid Decomposition and Local Dominance Method. o
- 330 Multi-objective risk-constrained operation of hydrogen-based renewable energy integrated distribution network.
- 329 Massively parallel data analytics for smart grid applications. **2022**, 31, 100789
- 328 Multi-Objective False Data Injection Attacks of Cyber-Physical Power Systems. **2022**, 1-1 1
- 327 An Improved Dynamic Programming-Based Decentralized Algorithm for AC-OPF of Radially Connected Multi-Level Networks. *IEEE Transactions on Power Systems*, **2022**, 1-1 7
- 326 Dynamical Failures Driven by False Load Injection Attacks Against Smart Grid. **2022**, 17, 2213-2226 o
- 325 Grid Impact Aware TSO-DSO Market Models for Flexibility Procurement: Coordination, Pricing Efficiency, and Information Sharing. *IEEE Transactions on Power Systems*, **2022**, 1-14 7 o
- 324 Mitigating Cascading Failures in Power Grids via Markov Decision-Based Load-Shedding With DC Power Flow Model. **2022**, 1-12 o
- 323 Evaluating Performance of a Linear Hybrid State Estimator Utilizing Measurements From RTUs and Optimally Placed PMUs. **2022**, 10, 63113-63131 o
- 322 Differentially Private K-means Clustering Applied to Meter Data Analysis and Synthesis. **2022**, 1-1
- 321 Power electronics-interfaced cyber-physical power systems: A review on modeling, simulation, and cybersecurity.
- 320 Improving the initialization of a stochastic AC-QP optimal power flow algorithm.
- 319 An integrated modeling framework for cascading failure study and robustness assessment of cyber-coupled power grids. **2022**, 108654 o
- 318 A Fast Holomorphic Embedding Power Flow Approach for Meshed Distribution Networks. **2022**, 2022, 1-11
- 317 Interpreting the vulnerability of power systems in cascading failures using multi-graph convolutional networks. o
- 316 An iterative approach to improving solution quality for AC optimal power flow problems. **2022**, o
- 315 Analytical uncertainty propagation and storage usage in a high RES Turkish transmission grid scenario. **2022**,
- 314 Optimal placement and sizing of FACTS devices for optimal power flow using metaheuristic optimizers. **2022**, 8, 100145 1

- 313 Fast impedance matrix calculation for real-time application. **2022**, 211, 108194
- 312 A probability box representation method for power flow analysis considering both interval and probabilistic uncertainties. **2022**, 142, 108371 0
- 311 Optimal power flow for bipolar DC microgrids. **2022**, 142, 108375 2
- 310 Genetic Algorithm-Based Cumulative Sum Method for Jamming Attack Detection of Cyber-Physical Power Systems. **2022**, 71, 1-10 1
- 309 Supermodal Decomposition of the Linear Swing Equation for Multilayer Networks. **2022**, 10, 72658-72670 2
- 308 A Decision-Dependent Stochastic Approach for Joint Operation and Maintenance of Overhead Transmission Lines After Sandstorms. **2022**, 1-12
- 307 Effective Transmission Congestion Management via Optimal DG Capacity Using Hybrid Swarm Optimization for Contemporary Power System Operations. **2022**, 10, 71091-71106 7
- 306 Optimal Bidding Strategy for Social Welfare Maximization in Wind Farm Integrated Deregulated Power System Using Artificial Gorilla Troops Optimizer Algorithm. **2022**, 10, 71450-71461 0
- 305 Limiting the Failure Impact of Interdependent Power-Communication Networks via Optimal Partitioning. **2022**, 1-1
- 304 Hierarchical Transactive Control of Flexible Building Loads Under Distribution LMP. **2022**,
- 303 Prediction of Power Measurements Using Adaptive Filters. **2022**,
- 302 Detection of False Data Injection Attacks in Power System State Estimation Using Sensor Encoding. **2022**, 0
- 301 Distributionally Robust Renewable-Transmission-Storage Planning Considering Carbon Taxes. **2022**,
- 300 Optimization Framework to Determine Optimal Location and Sizing of Photovoltaic Energy Sources in Electric Grids. **2022**,
- 299 Differentially Private Load Restoration for Microgrids with Distributed Energy Storage. **2022**,
- 298 Determining an Operation Sequence for Proactive Islanding of the Power Grid. **2022**,
- 297 Variation-cognizant Probabilistic Power Flow Analysis via Multi-task Learning. **2022**,
- 296 Optimizing D-PMU deployment for distribution system state estimation. **2022**,

- 295 Probabilistic Harmonic Estimation in Uncertain Transmission Networks Using Sequential ANNs. **2022**, 1
- 294 Probabilistic Modelling of Electric Vehicle Charging Demand based on Charging Station Data. **2022**, 0
- 293 Asymptotically tight conic approximations for chance-constrained AC optimal power flow. **2022**, 0
- 292 Optimal Distribution Network Reconfiguration Using Multi-Objective Cuckoo Search Algorithm. **2022**, 23, 114-124
- 291 A Collection of Large-Scale Benchmark Models for Nonlinear Model Order Reduction.
- 290 Artificial ecosystem optimization for optimizing of position and operational power of battery energy storage system on the distribution network considering distributed generations. **2022**, 118127 1
- 289 A meta-heuristic capacitor placement framework for distribution grids using modal resonance analysis.
- 288 Enhancing Resilience of Integrated Electricity-Gas Systems: A Skeleton-Network Based Strategy. **2022**, 100101 0
- 287 Data-Driven False Data Injection Attacks against Cyber-Physical Power Systems. **2022**, 102836
- 286 Multi-Objective Optimal Power Flow including Wind and Solar Generation Uncertainty Using New Hybrid Evolutionary Algorithm with Efficient Constraint Handling Method. **2022**, 2022, 1-15 0
- 285 Dynamic energy flow analysis of the heat-electricity integrated energy systems with a novel decomposition-iteration algorithm. **2022**, 322, 119492 1
- 284 Feedback control approaches for restoration of power grids from blackouts. **2022**, 211, 108414 1
- 283 Risk assessment of cascading failures in power systems with increasing wind penetration. **2022**, 211, 108392 1
- 282 Providing Distributed Flexibility for Curative Transmission System Operation Using a Scalable Robust Optimization Approach. **2022**, 211, 108431 1
- 281 Transmission expansion planning for power grids considering resilience enhancement. **2022**, 211, 108218 1
- 280 Optimal power flow schedules with reduced low-frequency oscillations. **2022**, 212, 108301 1
- 279 Data-driven time series reconstruction for modern power systems research. **2022**, 212, 108589 0
- 278 Improving Distributed PV Integration with Dynamic Thermal Rating of Power Distribution Equipment. **2022**, 104808 0

- 277 On Improving the Reliability of Power Grids for Multiple Power Line Outages and Anomaly Detection. **2023**, 259-300
- 276 BELTISTOS: A robust interior point method for large-scale optimal power flow problems. **2022**, 212, 108613
- 275 A reinforcement learning approach to parameter selection for distributed optimal power flow. **2022**, 212, 108546 ○
- 274 Assessing the impacts of nonideal communications on distributed optimal power flow algorithms. **2022**, 212, 108297 ○
- 273 Non-parametric Joint Chance-Constrained OPF via Maximum Mean Discrepancy Penalization. **2022**, 212, 108482
- 272 A practical approach to flexibility provision assessment in an unobservable distribution network. **2022**, 212, 108262 ○
- 271 PanSuite: A free simulation environment for the analysis of hybrid electrical power systems. **2022**, 212, 108354 ○
- 270 Small-signal stability analysis of uncertain power systems via interval analysis. **2022**, 212, 108339
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- 268 Research on power flow optimization control strategy of AC-DC hybrid microgrid based on power electronic transformer. **2022**,
- 267 Taylor-series based Convex Approximation Method for Optimization of Active Distribution Networks. **2022**,
- 266 Online Topology Identification Method for MV and LV Distribution Network Based on GA-SVM. **2022**,
- 265 Quantum annealing computing for grid partition in large-scale power systems. **2022**,
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- 259 Hybrid Data-Driven Physics-Based Model Framework Implementation: Towards a Secure Cyber-Physical Operation of the Smart Grid. **2022**,
- 258 Incorporating Mobile Energy Resources in Optimal Power Flow Models Considering Geographical and Road Network Data. **2022**,
- 257 Two-Stage Optimization Framework for Detecting and Correcting Parameter Cyber-Attacks in Power System State Estimation. **2022**,
- 256 Decentralized AC Optimal Power Flow Problem Considering Prohibited Operating Zones. **2022**,
- 255 Energy Storage Systems in DC Railways for Improving Operating Conditions of AC Power Grids. **2022**,
- 254 Power Grid parameter estimation using Sparse Identification of Nonlinear Dynamics. **2022**,
- 253 A Graph-Theoretic Approach to Assess the Power Grid Vulnerabilities to Transmission Line Outages. **2022**, 0
- 252 Hierarchical Low-Carbon Economic Dispatch with Source-Load Bilateral Carbon-Trading Based on Aumann-Shapley Method. **2022**, 15, 5359 0
- 251 Functional control of oscillator networks. **2022**, 13, 1
- 250 Optimal Capacitor Placement and Sizing in Radial Distribution Networks, Using Modified IGHS. **2023**, 166-179
- 249 Data-driven tuning for chance constrained optimization: analysis and extensions.
- 248 Optimal Operation of Microgrids Comprising Large Building Prosumers and Plug-in Electric Vehicles Integrated into Active Distribution Networks. **2022**, 15, 6182 1
- 247 Intrinsic-Motivated Sensor Management. **2022**,
- 246 Performance and security enhancement using generalized optimal unified power flow controller under contingency conditions and renewable energy penetrations. **2022**, 9,
- 245 Price-based low-carbon demand response considering the conduction of carbon emission costs in smart grids. 10, 0
- 244 Distribution network reconfiguration using time-varying acceleration coefficient assisted binary particle swarm optimization. **2022**, 101230 1
- 243 Multi-zonal method for cascading failure analyses in large interconnected power systems.
- 242 Model Predictive Control-Based Load-Frequency Regulation of Grid-Forming Inverter-Based Power Systems. 10, 1

- 241 A surrogate-assisted point estimate method for hybrid probabilistic and interval power flow in distribution networks. **2022**, 8, 713-721
- 240 Decentralized optimal power flow based on auxiliary problem principle with an adaptive core. **2022**, 8, 755-765 1
- 239 Efficient steady state analysis of the grid using electromagnetic transient models. **2022**, 213, 108408
- 238 A distributed compensating strategy for power systems pre-protection against disruptive contingencies using heterogeneous FACTS devices. **2022**, 213, 108630
- 237 Learning to solve DCOPF: A duality approach. **2022**, 213, 108595
- 236 DNN-based policies for stochastic AC OPF. **2022**, 213, 108563 0
- 235 A techno-economic analysis framework for power system-aware co-expansion planning of integrated gas transmission networks and chemical industries toward a more sustainable management of multi-energy systems. **2022**, 32, 100893
- 234 Fast contingency screening for voltage stability analysis considering both SNBs and SIBs. **2022**, 213, 108303 0
- 233 Optimal DG allocation and sizing in distribution systems with Thevenin based impedance stability index. **2023**, 144, 108555 1
- 232 Dynamic State Estimation for Distribution Systems using Measurement Values from IT Switches and Smart Meters. **2022**, 142, 441-452 0
- 231 Evolutionary mating algorithm. 1
- 230 Fast tuning of transmission power flow routers for transient stability constrained optimal power flow under renewable uncertainties. **2022**, 213, 108735 0
- 229 Recycling Newton-Krylov algorithm for efficient solution of large scale power systems. **2023**, 144, 108559 0
- 228 Load Shed Recovery With Transmission Switching and Intentional Islanding Methods After (N-2) Line Contingencies. **2022**, 10, 98403-98413 0
- 227 Structural-Constrained Methods for the Identification of False Data Injection Attacks in Power Systems. **2022**, 10, 94169-94185 1
- 226 Optimal Utilization of Bidirectional EVs For Grid Frequency Support in Power Systems. **2022**, 1-13 0
- 225 Optimal Power Flow Considering Global Voltage Stability Based on a Hybrid Modern Heuristic Technique. **2022**, 55, 413-418 0
- 224 Rapid Scalable Distributed Power Flow with Open-Source Implementation. **2022**, 55, 145-150 0

223	High-Performance Optimal Power Flow Estimation for EV-Interfaced Microgrids With Standardized Grid Services. 2022 , 1-13	0
222	Robust Moving Target Defence Against False Data Injection Attacks in Power Grids. 2022 , 1-1	0
221	High-Stealth False Data Attacks on Overloading Multiple Lines in Power Systems. 2022 , 1-1	0
220	Resilient Adaptive Parallel simulator for grid (RAPID): An Open Source Power System Simulation Toolbox. 2022 , 9, 361-373	1
219	Smart Charging of EVs to Harvest Flexibility for PVs. 2022 , 149-168	0
218	A Real-Time Recursion Correction Hybrid Linear State Estimator Using Stream Processing. 2022 , 1-12	0
217	Alternative Auto-Encoder for State Estimation in Distribution Systems with Unobservability. 2022 , 1-1	0
216	D. 2022 , 1-10	0
215	Small-signal Angle Stability-oriented False Data Injection Cyber-attacks on Power Systems. 2022 , 1-1	0
214	Attack Power System State Estimation by Implicitly Learning the Underlying Models. 2022 , 1-1	0
213	Locational Marginal Price Decomposition Using a Fully Distributed Slack Bus Model. 2022 , 10, 84913-84933	0
212	DeepOPF: A Feasibility-Optimized Deep Neural Network Approach for AC Optimal Power Flow Problems. 2022 , 1-11	3
211	Predictive control based on stochastic disturbance trajectories for congestion management in sub-transmission grids. 2022 , 55, 302-307	0
210	Holomorphic Embedded Analysis of Unified Power Quality Conditioner Compensated Power Distribution System. 2022 , 1-10	0
209	OSER DA Planning Tool for Power Systems Operation Simulation and for Impacts Evaluation of the Distributed Energy Resources on the Transmission System. 2022 , 1-1	0
208	Boosting False Data Injection Attack Detection with Structural Knowledge. 2022 ,	0
207	A Submodular Optimization Approach to Stable and Minimally Disruptive Controlled Islanding in Power Systems. 2022 ,	0
206	How Vintage Linear Systems Controllers Have Become Inadequate In Renewables-Heavy Power Systems: Limitations and New Solutions. 2022 ,	0

- 205 Operation and management of modern electrical systems. **2023**, 283-330 o
- 204 A method for evaluating and improving linear power flow models in system with large fluctuations. **2023**, 145, 108635 o
- 203 How to Learn the Optimal Clique Decompositions in Solving Semidefinite Relaxations for OPF. **2022**, o
- 202 Facilitating DER participation in wholesale electricity market through TSO-DSO coordination. **2022**, 3, 201-213 o
- 201 Vector Auto-Regression-Based False Data Injection Attack Detection Method in Edge Computing Environment. **2022**, 22, 6789 o
- 200 Application of Coulomb and Franklin laws algorithm to solve large-scale optimal reactive power dispatch problems. o
- 199 False data injection attack detection in dynamic power grid: A recurrent neural network-based method. 10, o
- 198 Multi-Area Distributed State Estimation in Smart Grids Using Data-Driven Kalman Filters. **2022**, 15, 7105 o
- 197 Assessment of GAMS in Power Network Applications Including Wind Renewable Energy Source. **2022**, 327-364 o
- 196 Best Response Intersection: An Optimal Algorithm for Interdiction Defense. o
- 195 Sizing capacities of renewable generation, transmission, and energy storage for low-carbon power systems: A distributionally robust optimization approach. **2022**, 125653 o
- 194 Design of fractional comprehensive learning PSO strategy for optimal power flow problems. **2022**, 130, 109638 2
- 193 Hierarchical Central-Local Inverter-based Voltage Control in Distribution Networks Considering Stochastic PV Power Admissible Range. **2022**, 1-1 o
- 192 OpenGridGym: An Open-Source AI-Friendly Toolkit for Distribution Market Simulation. **2022**, 1-1 o
- 191 Fast Coordination of Distributed Energy Resources Over Time-Varying Communication Networks. **2022**, 1-16 o
- 190 Controlled Islanding Resilience with High Penetration of Renewable Energy Resources. **2022**, 1-12 o
- 189 Deep Recurrent Mixer Models for Load Forecasting in Distribution Network. **2022**, o
- 188 Development of electrical power transmission system linear hybrid state estimator based on circuit analysis techniques. **2022**, 8, e11000 o

- 187 State vulnerability assessment against false data injection attacks in AC state estimators. **2022**, 3, 319-332 O
- 186 Influence of a Reactive Power on the Dynamics of an Ensemble of Oscillators Simulated by the Phase Equations with Inertia. O
- 185 Welfare optimal reliability and reserve provision in electricity markets with increasing shares of renewable energy sources. O
- 184 Cyberphysical risk assessment for false data injection attacks considering moving target defences. O
- 183 A Mathematical Modeling Approach for Power Flow and State Estimation Analysis in Electric Power Systems through AMPL. **2022**, 11, 3566 1
- 182 Improved dynamic state estimation of power system using unscented Kalman filter with more accurate prediction model. **2022**, 8, 364-376 O
- 181 Resilience Maximization in Electrical Power Systems through Switching of Power Transmission Lines. **2022**, 15, 8138 1
- 180 Probabilistic optimal planning of dispatchable distributed generator units in distribution systems using a multi-objective velocity-based butterfly optimization algorithm. **2022**, 43, 191-209 1
- 179 Unified space approach-based Dynamic Switched Crowding (DSC): A new method for designing Pareto-based multi/many-objective algorithms. **2022**, 75, 101196 O
- 178 Spatio-temporal evaluation of electricity price risk considering multiple uncertainties under extreme cold weather. **2022**, 328, 120090 O
- 177 Economical operation of modern power grids incorporating uncertainties of renewable energy sources and load demand using the adaptive fitness-distance balance-based stochastic fractal search algorithm. **2023**, 117, 105501 1
- 176 A new hybrid evolutionary algorithm for multi-objective optimal power flow in an integrated WE, PV, and PEV power system. **2023**, 214, 108870 O
- 175 Risk management for integrated power and natural gas systems against extreme weather: A coalitional insurance contract approach. **2023**, 263, 125750 1
- 174 A scalable planning framework of energy storage systems under frequency dynamics constraints. **2023**, 145, 108693 O
- 173 Power network uniqueness and synchronization stability from a higher-order structure perspective. **2023**, 443, 133557 O
- 172 Distributed flexibility to maintain security margin through decentralised TSODSO coordination. **2023**, 146, 108735 1
- 171 Intelligent and optimal energy management strategy to control the Micro-Grid voltage and frequency by considering the load dynamics and transient stability. **2023**, 145, 108618 1
- 170 Fast prediction and avoidance of cascading line failures based on ANN with feedbacks. **2023**, 145, 108655 O

169	A Multiobjective Intelligent Decision-Making Method for Multistage Placement of PMU in Power Grid Enterprises. 2022 , 1-9	6
168	Differential Evolution-Based Three Stage Dynamic Cyber-Attack of Cyber-Physical Power Systems. 2022 , 1-12	0
167	Extended Moving Target Defense for AC State Estimation in Smart Grids. 2022 , 1-1	1
166	DeepOPF-FT: One Deep Neural Network for Multiple AC-OPF Problems with Flexible Topology. 2022 , 1-4	0
165	Parallel-in-Time Power System Simulation Using a Differential Transformation based Adaptive Parareal Method. 2022 , 1-1	1
164	A Systematic Review on Cascading Failures Models in Renewable Power Systems with Dynamics Perspective and Protections Modeling. 2023 , 214, 108928	0
163	Power flow analysis via typed graph neural networks. 2023 , 117, 105567	0
162	Developing a novel zonal congestion management based on demand response programs considering dynamic transmission ratings. 2023 , 146, 108779	1
161	Assessing the Resilience of a Power Distribution System Considering Different Restoration Strategies. 2022 ,	0
160	Influence of DC Network Structure on the Optimal Power Flow of Hybrid AC-DC Transmission Grids. 2022 ,	0
159	Online Detection of Cascading Change-Points Using Diffusion Networks. 2022 ,	2
158	Operaci3n 3ptima de redes de distribuci3n activas con alia penetraci3n de energ3as renovables: aplicaci3n a la red IEEE 33. 2022 ,	0
157	Solution of constrained mixed-integer multi-objective optimal power flow problem considering the hybrid multi-objective evolutionary algorithm.	1
156	Stochastic energy community trading model for day-ahead and intraday coordination when offering DER3 reactive power as ancillary services. 2022 , 100951	2
155	Modern Heat and Electricity Incorporated Networks Targeted by Coordinated Cyberattacks for Congestion and Cascading Outages. 2022 , 115-155	0
154	A bi-layer stochastic coordinated planning framework for wind-battery power systems considering bilateral carbon trading.	0
153	Pinning control of networks: Dimensionality reduction through simultaneous block-diagonalization of matrices. 2022 , 32, 113111	1
152	Benders-Decomposition-Based Voltage-Stability-Constrained Unit-Commitment Taking Reactive Power Limit into Account.	0

151	Price-Guided Peer-To-Peer Trading Scheme and Its Effects on Transaction Costs and Network Losses. 2022 , 15, 8274	0
150	Nonconvex equilibrium models for energy markets: exploiting price information to determine the existence of an equilibrium. 1-31	0
149	Electrical Vehicle Charging Scheduling and Routing Mechanism in Interdependent Power and Transportation Networks. 2022 ,	0
148	A Moving Target Defense Strategy Against FDIA Based on Flexible Switching of Spare Lines. 2022 ,	0
147	A Vehicle-To-Grid Voltage Support Co-simulation Platform. 2022 , 301-333	0
146	An Efficient Homotopy Method for Solving the Post-Contingency Optimal Power Flow to Global Optimality. 2022 , 10, 124960-124978	0
145	Security Enhancement of Power System State Estimation With an Effective and Low-Cost Moving Target Defense. 2022 , 1-16	2
144	Decarbonizing the grid: Utilizing demand-side flexibility for carbon emission reduction through locational marginal emissions in distribution networks. 2023 , 330, 120303	0
143	Predictability and fairness in load aggregation and operations of virtual power plants. 2023 , 147, 110743	0
142	SPMA: Stealthy Physics-Manipulated Attack and Countermeasures in Cyber-Physical Smart Grid. 2023 , 18, 581-596	0
141	Energy storage for mitigating grid congestion caused by electric vehicles: A techno-economic analysis using a computationally efficient graph-based methodology. 2023 , 58, 106324	0
140	Joint planning of electric vehicle battery swapping stations and distribution grid with centralized charging. 2023 , 58, 106455	2
139	An approach for fast cascading failure simulation in dynamic models of power systems. 2023 , 332, 120534	0
138	An application of teaching-learning-based optimization for solving the optimal power flow problem with stochastic wind and solar power generators. 2023 , 10, 100187	1
137	Reliability and risk metrics to assess operational adequacy and flexibility of power grids. 2023 , 231, 109018	0
136	Analytical uncertainty propagation for multi-period stochastic optimal power flow. 2023 , 33, 100969	0
135	Integrated network partitioning and DERs allocation for planning of Virtual Microgrids. 2023 , 216, 109024	0
134	Conditioning step on the initial estimate when solving ill-conditioned power flow problems. 2023 , 146, 108772	0

- 133 On the accuracy of power flow and load margin calculation caused by incorrect logical PV/PQ switching: Analytics and improved methods. **2023**, 147, 108905 ○
- 132 System integrity protection scheme for minimizing wind curtailment considering transmission line thermal limits. **2023**, 33, 100970 ○
- 131 A Novel Four-Level Approach for Improving Power System Resilience Against Intentional Attacks. **2022**, 10, 123769-123785 ○
- 130 A Configurable Hierarchical Architecture for Parallel Dynamic Contingency Analysis on GPUs. **2022**, 1-1 ○
- 129 A Novel Loss Sensitivity Based Linearized OPF and LMP Calculations for Active Balanced Distribution Networks. **2022**, 1-12 ○
- 128 An Ensemble Learning-Based Cyber-Attacks Detection Method of Cyber-Physical Power Systems. **2022**, ○
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- 120 Analysis of Cascading Failures in the Study of Power System Resiliency. **2022**, ○
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- 118 Risk-Limiting Multi-Station EV Charging Scheduling with Imperfect Prediction. **2022**, ○
- 117 A two-level distributed algorithm for nonconvex constrained optimization. ○
- 116 Optimal Scheduling of Plug-in Electric Vehicles Using Binary Gravitational Search Algorithm with A Suitable Decision Function. **2022**, ○

- 115 Towards Sustainable Integration of STATCOM and DGs Based Radial Distribution Systems Using Dynamic Adaptive Aquila Optimizer. o
- 114 Toward Models of Impact and Recovery of the US Western Grid from Earthquake Events. **2022**, 15, 9275 o
- 113 Static Voltage Stability Assessment of Ethiopian power System Using Normalized Active Power Margin Index. **2022**, 9, e5 o
- 112 Day-ahead optimal operation of active distribution networks with distributed generation and energy storage. **2022**, o
- 111 Energy management integrated volt var optimization for distribution systems with SVR, PV inverter, and BESS: a case study in distribution system of Elazığ Turkey. 1
- 110 A Multivariate Stochastic Spatiotemporal Wind Power Scenario Forecasting Model. **2022**, 201-222 o
- 109 Optimal Location and Sizing of Distributed Generators and Energy Storage Systems in Microgrids: A Review. **2023**, 16, 106 2
- 108 Enhancement of inter-area oscillation damping by wide-area controlled hydropower plants. o
- 107 Real-time Scheduling of Virtual Power System Based on the Hidden Markov Model. **2022**, 2401, 012023 o
- 106 Research on the multi-timescale optimal voltage control method for distribution network based on a DQN-DDPG algorithm. 10, o
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- 102 Optimal integration and coordination of distributed generation and shunt compensators using improved African vultures optimizer. 1-38 o
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- 97 Optimal DG Placement for Power Loss Minimization in Radial Power Distribution Networks using Mixed-Integer Quadratic Programming Method based on Modified DistFlow. **2022,** ○
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- 83 Defining a new index to compare the resilience of different structures of an electrical energy network. ○
- 82 Unsupervised Deep Learning for AC Optimal Power Flow via Lagrangian Duality. **2022,** ○
- 81 EleGNN: Electrical-Model-Guided Graph Neural Networks for Power Distribution System State Estimation. **2022,** ○
- 80 Distributed Multi-Area Optimal Power Flow via Rotated Coordinate Descent Critical Region Exploration. **2022,** ○

- 79 Optimal Switching Operations of Soft Open Points in Active Distribution Network for Handling Variable Penetration of Photovoltaic and Electric Vehicles Using Artificial Rabbits Optimization. ○
- 78 A novel Newton-like method with high convergence rate for efficient power-flow solution in isolated microgrids. ○
- 77 A Sequential Generation Redispatch Algorithm to Ensure Power System Small Signal Stability under Low-Frequency Oscillations. **2023**, 2023, 1-15 ○
- 76 A mixed integer linear programming model for minimum backbone grid. 10, ○
- 75 Pareto Front-Based Multiobjective Optimization of Distributed Generation Considering the Effect of Voltage-Dependent Nonlinear Load Models. **2023**, 11, 12195-12217 ○
- 74 State Estimation in Partially Observable Power Systems via Graph Signal Processing Tools. **2023**, 23, 1387 ○
- 73 False data injection attack in smart grid: Attack model and reinforcement learning-based detection method. 10, ○
- 72 Random-Enabled Hidden Moving Target Defense against False Data Injection Alert Attackers. **2023**, 11, 348 ○
- 71 Impact Analysis of MTD on the Frequency Stability in Smart Grid. **2023**, 10, 275-277 ○
- 70 Fast QC Relaxation of the Optimal Power Flow Using the Line-Wise Model for Representing Meshed Transmission Networks. **2023**, 11, 2775-2786 ○
- 69 Efficient Energy Management and Reliability Assessment by Optimal Placement of Renewable Energy Sources with Pump Storage Plant. **2023**, 8, ○
- 68 Two-step hybrid-based technique for solving ill-conditioned power flow problems. **2023**, 218, 109178 ○
- 67 A GUI-based Low-Code Development Platform for Power Systems Analysis. **2022**, ○
- 66 Effective Reactive Power Reserve Procurement for Economic Operation of MTDC-AC Systems. **2022**, ○
- 65 Voltage Stability Assessment of Transmission System with Electric Vehicles as Virtual Power Plants. **2022**, ○
- 64 Commissioning Random Matrix Theory and Synthetic Minority Oversampling Technique for Power System Faults Detection and Classification. **2023**, 518-529 ○
- 63 Accelerating Condensed Interior-Point Methods on SIMD/GPU Architectures. ○
- 62 Adaptive Network Response to Line Failures in Power Systems. **2023**, 10, 333-344 ○

- 61 Analyzing at-scale distribution grid response to extreme temperatures. **2023**, 337, 120886 ○
- 60 Interoperability of single-controllable clusters: Aggregate response of low-voltage microgrids. **2023**, 340, 121042 ○
- 59 Deep learning assisted surrogate modeling of large-scale power grids. **2023**, 34, 101031 ○
- 58 Provision of reactive power services by energy communities in MV distribution networks. **2023**, 34, 101038 ○
- 57 A robust reliability evaluation model with sequential acceleration method for power systems considering renewable energy temporal-spatial correlation. **2023**, 340, 120996 ○
- 56 A simulation-metaheuristic approach for finding the optimal allocation of the battery energy storage system problem in distribution networks. **2023**, 7, 100208 ○
- 55 An Interval-based privacy Δ Aware optimization framework for electricity price setting in isolated microgrid clusters. **2023**, 340, 121041 ○
- 54 A CVaR-constrained optimal power flow model for wind integrated power systems considering Transmission-side flexibility. **2023**, 150, 109087 ○
- 53 Robust multi-stage economic dispatch with renewable generation and storage. **2023**, 309, 890-909 ○
- 52 Graph convolutional network-based security-constrained unit commitment leveraging power grid topology in learning. **2023**, 9, 3544-3552 ○
- 51 A quantified multi-stage optimization method for resource allocation of electric grid defense planning. **2023**, 220, 109284 ○
- 50 Risk-constrained planning of rural-area hydrogen-based microgrid considering multiscale and multi-energy storage systems. **2023**, 334, 120682 ○
- 49 Model-Based Distributed Optimization. **2023**, 23-108 ○
- 48 Estimating the Operating Reserve Demand Curve for Efficient Adoption of Renewable Sources in Korea. **2023**, 16, 1426 ○
- 47 Energy Not Exchanged: A Metric to Quantify Energy Resilience in Smart Grids. **2023**, 15, 2596 ○
- 46 Distributed Network-Constrained P2P Community-Based Market for Distribution Networks. **2023**, 16, 1520 ○
- 45 Optimal Transmission Expansion Planning with Long-Term Solar Photovoltaic Generation Forecast. **2023**, 16, 1719 ○
- 44 Flexible and Low-Cost Emulation of Control Behaviors for Testing and Teaching of AC Microgrid. **2023**, 16, 1905 ○

- 43 A two-stage robust generation expansion planning framework for regional integrated energy systems with carbon growth constraints. 11, ○
- 42 A generalised approach for efficient computation of look ahead security constrained optimal power flow. **2023**, ○
- 41 Simulation of a Microgrid with OpenDSS an Open-Source Software Package. **2023**, 513-529 ○
- 40 PowerSAS.mAn Open-Source Power System Simulation Toolbox Based on Semi-Analytical Solution Technologies. **2023**, 10, 222-232 ○
- 39 Real-time low-carbon scheduling for the wind-thermal-hydro-storage resilient power system using linear stochastic robust optimization. 11, ○
- 38 Exploring Operational Flexibility of AC/DC Power Grids. **2023**, 125-158 ○
- 37 Voltage Violations Assessment Considering Reactive Power Compensation Provided by Smart Inverters. **2023**, 83-98 ○
- 36 Distribution Network Reconfiguration Using Iterative Branch Exchange and Clustering Technique. **2023**, 16, 2395 ○
- 35 MatPSST: A Matlab/Simulink-based power system simulation toolbox for research and education. ○
- 34 Stochastic Security-Constrained Economic Dispatch of Load-Following and Contingency Reserves Ancillary Service Using a Grid-Connected Microgrid during Uncertainty. **2023**, 16, 2607 ○
- 33 False data injection attack detection in power system with non-convex principal component analysis. **2022**, ○
- 32 Power-grid vulnerability and its relation with network structure. **2023**, 33, 033122 ○
- 31 A Two-Stage Stackelberg Game Wind-Storage Planning Model Considering a Bus Carbon Intensity Incentive Mechanism. **2023**, 13, 3710 ○
- 30 Chance-constrained co-expansion planning for power systems under decision-dependent wind power uncertainty. **2023**, 17, 1342-1357 ○
- 29 Death spiral of the legacy grid: A game-theoretic analysis of modern grid defection processes. **2023**, 26, 106415 ○
- 28 Numerical Example. **2023**, 43-53 ○
- 27 Introduction. **2023**, 1-7 ○
- 26 Preliminary Theory. **2023**, 9-15 ○

- 25 A Robust Learning Framework for Smart Grids in Defense of False Data Injection Attacks. ○
- 24 Optimal Energy Management for Virtual Power Plant Considering Operation and Degradation Costs of Energy Storage System and Generators. **2023**, 16, 2862 ○
- 23 Reconfiguration of the Distribution Network using a Whale Optimization Algorithm. **2023**, ○
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