

# Hwachang Song

## List of Publications by Year in descending order

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71  
papers

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687363

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71  
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71  
docs citations

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times ranked

536  
citing authors

#	ARTICLE	IF	CITATIONS
1	Distribution System State Estimation Using Model-Optimized Neural Networks. Applied Sciences (Switzerland), 2022, 12, 2073.	2.5	6
2	Handling Load Uncertainty during On-Peak Time via Dual ESS and LSTM with Load Data Augmentation. Energies, 2022, 15, 3001.	3.1	2
3	An Operation Strategy of ESS for Enhancing the Frequency Stability of the Inverter-Based Jeju Grid. Energies, 2022, 15, 3086.	3.1	3
4	Application of Battery Energy Storage Systems for Relief of Generation Curtailment in Terms of Transient Stability. Energies, 2021, 14, 3898.	3.1	6
5	Optimal ESS Scheduling for Peak Shaving of Building Energy Using Accuracy-Enhanced Load Forecast. Energies, 2020, 13, 5633.	3.1	20
6	State Estimation for DC Microgrids using Modified Long Short-Term Memory Networks. Applied Sciences (Switzerland), 2020, 10, 3028.	2.5	10
7	Dual Deep Learning Networks Based Load Forecasting with Partial Real-Time Information and Its Application to System Marginal Price Prediction. Energies, 2020, 13, 148.	3.1	14
8	Interlink Converter Controller Design based on System Identification of DC Sub-Grid Model in Hybrid AC/DC Microgrid. IFAC-PapersOnLine, 2019, 52, 45-50.	0.9	7
9	Voltage Regulation in a Stand-Alone DC Microgrid. IFAC-PapersOnLine, 2019, 52, 36-39.	0.9	3
10	A Reactive Power Compensation Strategy for Voltage Stability Challenges in the Korean Power System with Dynamic Loads. Sustainability, 2019, 11, 326.	3.2	31
11	Determining Countermeasures against Fault Currents Using a Decomposition Method Based on Fuzzy Fault Level Constrained Optimal Power Flow. Applied Sciences (Switzerland), 2019, 9, 274.	2.5	0
12	Renewable Energy Generation Assessment in Terms of Small-Signal Stability. Sustainability, 2019, 11, 7079.	3.2	4
13	Implementation of talis and dc house system for rural areas in indonesia. MATEC Web of Conferences, 2018, 218, 01006.	0.2	5
14	MPC Based Ramp-Rate Control Strategy with Battery Energy Storage Systems for Wind Farms. , 2018, , .		0
15	A Countermeasure for Preventing Flexibility Deficit under High-Level Penetration of Renewable Energies: A Robust Optimization Approach. Sustainability, 2018, 10, 4159.	3.2	3
16	Ultra-Low Power Communication for Infrastructure Monitoring During a Disaster. , 2018, , .		0
17	Application of EtherCAT in Microgrid Communication Network: A Case Study. , 2018, , .		5
18	Discrete-Time Control Design for Three-Phase Grid-Connected Inverter Using Full State Observer. , 2018, , .		3

#	ARTICLE	IF	CITATIONS
19	Decentralized Load Shedding Method Based on Voltage Stability Margin Index Using Synchrophasor Measurement Technology. <i>Electronics (Switzerland)</i> , 2018, 7, 277.	3.1	6
20	Multi-Phase under Voltage Load Shedding Scheme for Preventing Delayed Voltage Recovery by Induction Motor Power Consumption Characteristics. <i>Applied Sciences (Switzerland)</i> , 2018, 8, 1115.	2.5	2
21	A Robust Suboptimal Current Control of an Interlink Converter for a Hybrid AC/DC Microgrid. <i>Energies</i> , 2018, 11, 1382.	3.1	12
22	Distributed economic dispatch for power systems. , 2017, , .		2
23	High-Gain Disturbance Observer-Based Robust Load Frequency Control of Power Systems with Multiple Areas. <i>Energies</i> , 2017, 10, 595.	3.1	14
24	Very Short-Term Load Forecasting Using Hybrid Algebraic Prediction and Support Vector Regression. <i>Mathematical Problems in Engineering</i> , 2017, 2017, 1-9.	1.1	13
25	Interlink Converter with Linear Quadratic Regulator Based Current Control for Hybrid AC/DC Microgrid. <i>Energies</i> , 2017, 10, 1799.	3.1	16
26	Suppression of PV Output Fluctuation Using a Battery Energy Storage System with Model Predictive Control. <i>International Journal of Fuzzy Logic and Intelligent Systems</i> , 2017, 17, 202-209.	1.1	8
27	Hybrid Multistarting GA-Tabu Search Method for the Placement of BtB Converters for Korean Metropolitan Ring Grid. <i>Mathematical Problems in Engineering</i> , 2016, 2016, 1-9.	1.1	4
28	Coordination Control Strategy for AC/DC Hybrid Microgrids in Stand-Alone Mode. <i>Energies</i> , 2016, 9, 469.	3.1	37
29	Decision Making on Bus Splitting Locations Using a Modified Fault Current Constrained Optimal Power Flow (FCC-OPF). <i>Journal of Electrical Engineering and Technology</i> , 2016, 11, 76-85.	2.0	2
30	Damping improvement and terminal voltage regulation for a synchronous machine using an energy storage device. <i>International Journal of Electronics</i> , 2015, 102, 582-598.	1.4	3
31	Adaptive Disturbance Observer-Based Parameter-Independent Speed Control of an Uncertain Permanent Magnet Synchronous Machine for Wind Power Generation Applications. <i>Energies</i> , 2015, 8, 4496-4512.	3.1	7
32	Analytical approach to large-scale system splitting for the regulation of fault levels. , 2015, , .		1
33	Long-term cycle control strategies for SMP-based shaving using a large-scale battery energy storage system. , 2014, , .		0
34	Determining the placement of BTB converters for fault current reduction in a power system by using a hybrid GA-Tabu search method. , 2014, , .		0
35	Real-Time Peak Shaving Algorithm Using Fuzzy Wind Power Generation Curves for Large-Scale Battery Energy Storage Systems. <i>International Journal of Fuzzy Logic and Intelligent Systems</i> , 2014, 14, 305-312.	1.1	11
36	Application of Fuzzy Enforcement to Complementarity Constraints in Nonlinear Optimization. <i>Advances in Intelligent Systems and Computing</i> , 2014, , 13-15.	0.6	0

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37	Generation Dispatch Algorithm Applying a Simulation Based Optimization Method. Journal of Korean Institute of Intelligent Systems, 2014, 24, 40-45.	0.1	0
38	A network reconfiguration algorithm for the reduction of expected fault currents. , 2013, , .		10
39	Smart Operation of HVDC Systems for Large Penetration of Wind Energy Resources. IEEE Transactions on Smart Grid, 2013, 4, 359-366.	9.0	32
40	Hybrid PSO-Complex Algorithm Based Parameter Identification for a Composite Load Model. Journal of Electrical Engineering and Technology, 2013, 8, 464-471.	2.0	8
41	Fuzzy-Enforced Complementarity Constraints in Nonlinear Interior Point Method-Based Optimization. International Journal of Fuzzy Logic and Intelligent Systems, 2013, 13, 171-177.	1.1	3
42	Innovative Model-Based PID Control Design for Bus Voltage Regulation with STATCOM in Multi-Machine Power Systems. Journal of Institute of Control, Robotics and Systems, 2013, 19, 299-305.	0.2	1
43	Long-term cycle scheduling algorithms in power management system for MW-scale batteries. , 2012, , .		3
44	A rule-based expert system for the optimal problem of PV systems using particle swarm optimization. , 2012, , .		0
45	Tabu search based topology modification for reduction of fault current level in power systems. , 2012, , .		5
46	Measurement-based Static Load Modeling Using the PMU data Installed on the University Load. Journal of Electrical Engineering and Technology, 2012, 7, 653-658.	2.0	8
47	Fuzzy LP Based Power Network Peak Shaving Algorithm. Journal of Korean Institute of Intelligent Systems, 2012, 22, 754-760.	0.1	3
48	A constrained consensus problem using MPC. International Journal of Control, Automation and Systems, 2011, 9, 952-957.	2.7	29
49	Determination of Reactive Power Compensation Considering Large Disturbances for Power Flow Solvability in the Korean Power System. Journal of Electrical Engineering and Technology, 2011, 6, 147-153.	2.0	5
50	Optimal Capacitor Placement Considering Voltage-stability Margin with Hybrid Particle Swarm Optimization. Journal of Electrical Engineering and Technology, 2011, 6, 786-792.	2.0	2
51	Smart Management of HVDC Interface Flow for Jeju Island System with High Penetration of Wind Energy. Journal of Advanced Computational Intelligence and Intelligent Informatics, 2011, 15, 926-933.	0.9	1
52	Generation re-dispatch algorithm against voltage collapse in Jeju island system with a frequency control by high-voltage direct current. IET Generation, Transmission and Distribution, 2010, 4, 609.	2.5	10
53	Particle swarm optimization based load model parameter identification. , 2010, , .		6
54	A novel multi-level quantization scheme for discrete particle swarm optimization. , 2009, , .		2

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55	A new methodology for identification of critical lines using damping sensitivity analysis. Electric Power Systems Research, 2009, 79, 562-568.	3.6	3
56	Network centrality based N-k contingency scenario generation. , 2009, , .		6
57	Optimal Capacitor Placement Considering Voltage Stability Margin Based on Improved PSO Algorithm. , 2009, , .		4
58	Governor-response power flow (GRPF) based long-term voltage stability simulation. , 2009, , .		3
59	Development of long-term simulator for the large-scaled power system. , 2009, , .		2
60	A penalty approach for NIPM based optimal reactive power flow including discrete variables. , 2009, , .		1
61	Control strategies against voltage collapse considering undesired relay operations. IET Generation, Transmission and Distribution, 2009, 3, 164-172.	2.5	22
62	Photovoltaic System Allocation Using Discrete Particle Swarm Optimization with Multi-level Quantization. Journal of Electrical Engineering and Technology, 2009, 4, 185-193.	2.0	7
63	Application of Multi-step Undervoltage Load Shedding Schemes to the KEPCO System. Journal of Electrical Engineering and Technology, 2009, 4, 476-484.	2.0	1
64	Continuation-Based Quasi-Steady-State Analysis Incorporating Multiplicative Load Restoration Model. Journal of Institute of Control, Robotics and Systems, 2008, 14, 111-117.	0.2	0
65	Continuation-Based Quasi-Steady-State Analysis. IEEE Transactions on Power Systems, 2006, 21, 171-179.	6.5	25
66	Equilibrium optimization (EOPT) with a nonlinear interior point method. , 2006, , .		0
67	Reactive power compensation for restoring power flow solvability in severe contingencies. , 2005, , .		0
68	Reactive reserve-based contingency constrained optimal power flow (RCCOPF) for enhancement of voltage stability margins. IEEE Transactions on Power Systems, 2003, 18, 1538-1546.	6.5	59
69	A study on determination of interface flow limits in the KEPCO system using modified continuation power flow (MCPF). IEEE Transactions on Power Systems, 2002, 17, 557-564.	6.5	37
70	Determination of interface flow margin for voltage stability analysis using the modified continuation power flow. , 0, , .		3
71	Enhancement of Interface Flow Limit using Static Synchronous Series Compensators. , 0, , .		0