

ISSN 1003-8930
CODEN DXJZAA

Proceedings of the CSU-EPSA

A Publication of the Chinese Society of Universities for
Electric Power System and its Automation

电力系统及其 自动化学报

4
2020

第32卷 第4期

Vol. 32 No.4

ISSN 1003-8930



9 771003 893203

天津大学主办

电力系统及其自动化学报

全国高等学校电力系统及其自动化学术年会刊物

第 32 卷 第 4 期(总 195 期)

2020 年 4 月

目 次

学术论文

- 多直流微电网群柔性互联与控制 顾后生,李霞林,郭 力,等(1)
柔性直流配电系统下垂系数选取范围研究 刘 刚,王秀茹,韩少华,等(9)
基于脑启发视觉神经元网络输电线路部件识别的研究 匡载波,王 江(14)
计及光热发电特性的光-风-火虚拟电厂双阶段优化调度 彭院院,周任军,李 斌,等(21)
一种基于 Buck/Boost 电路的新型微逆变器功率解耦电路 章勇高,孔令韬,许莹莹(29)
协同调度电动汽车与储能装置的家庭能量管理策略 姚 钢,茆中栋,周荔丹,等(35)
含微电网群的主动配电网双层联合优化调度 易灵芝,李 直(42)
计及不同主体的含 PET 交直流混合微网双层优化调度 尚学军,戚 艳,郭世琦,等(51)
基于深度脊波神经网络的电力系统短期负荷预测模型 岳远波,撖奥洋,张智晟(57)
全面数据质量管理框架在配电网领域的应用分析 秦丽文,梁 朔,高立克,等(62)
基于 FCM 聚类的随机子空间低频振荡模态识别算法 王志远,龙 呈,常晓青,等(69)
协调可靠性与经济性的园区综合能源系统优化规划 孙 强,高 松,谢 典,等(76)
基于博弈的多楼宇微网系统滚动调控方法 徐海华,陈 辉,杨尚东,等(83)
基于配电网概率电压灵敏度的光伏选址评估 姚 艳,严浩军,许家玉(92)
用于电励磁同步电机的软开关直流变换器 闫卫国,蒋 菲,崔玉璐,等(98)
固有频率与行波时域定位结合的多端直流混合输电线路故障定位方案
..... 郝勇奇,王 倩,宋文峰,等(104)
微网自适应旋转惯量 VSG 控制策略研究 朱作滨,黄绍平,李振兴,等(111)
基于实测数据的电力系统电压动态时空分布特性研究 姜 赫,安 军,李德鑫,等(116)
配电网合环冲击电流精确算法 吴艳娟,王皓月,杨 理(123)
应用于海上风电的高拓展性升压变换器 刘 松,曾庆辉,宋安琪,等(130)
基于 CEEMDAN 分解的深度学习分位数回归电价预测 彭曙蓉,李 彬,彭君哲,等(138)
基于改进 HITS 算法的电网脆弱集合快速评估 袁 博,张文一,张雪敏(145)

期刊基本参数:CN 12-1251/TM*1989*m*A4*150*zh*P*¥10.00*700*22*2020-04

Proceedings of the CSU-EPSA

Vol. 32 No.4 (Sum 195)

April 2020

Contents

Theoretical Research

Flexible Interconnection and Control of Multiple DC Microgrid Clusters	GU Housheng, LI Xialin, GUO Li, <i>et al</i> (1)
Study on the Scope of Droop Coefficient of Voltage Source Converter Based DC Distribution System	LIU Gang, WANG Xiuru, HAN Shaohua, <i>et al</i> (9)
Research on Part Recognition for Transmission Lines Based on Brain-inspired Visual Neural Network	KUANG Zaibo, WANG Jiang (14)
Two-stage Optimal Dispatching for Solar-Wind-Thermal Virtual Power Plant Considering Characteristic of Concentrating Solar Power	PENG Yuanyuan, ZHOU Renjun, LI Bin, <i>et al</i> (21)
Novel Micro-inverter Power Decoupling Circuit Based on Buck/Boost Circuit	ZHANG Yonggao, KONG Lingtao, XU Yingying (29)
Home Energy Management Strategy for Co-scheduling of Electric Vehicle and Energy Storage Device	YAO Gang, MAO Zhongdong, ZHOU Lidan, <i>et al</i> (35)
Bi-level Joint Optimal Dispatch of Active Distribution Network with Multi-microgrid	YI Lingzhi, LI Zhi (42)
Two-layer Optimal Dispatching for AC/DC Hybrid Microgrid with PET Considering Different Subjects	SHANG Xuejun, QI Yan, GUO Shiqi, <i>et al</i> (51)
Short-Term Load Forecasting Model of Power System Based on Deep Ridgelet Neural Network	YUE Yuanbo, HAN Aoyang, ZHANG Zhisheng (57)
Application Analysis of Comprehensive Data Quality Management Framework in Distribution Network	QIN Liwen, LIANG Shuo, GAO Like, <i>et al</i> (62)
Recognition Algorithm for Low-frequency Oscillation Mode Through Stochastic Subspace Based on FCM Clustering	WANG Zhiyuan, LONG Cheng, CHANG Xiaoqing, <i>et al</i> (69)
Optimum Planning for Integrated Community Energy System with Coordination of Reliability and Economy	SUN Qiang, GAO Song, XIE Dian, <i>et al</i> (76)
Rolling Scheduling Method for Multi-building Microgrid System Based on Game Theory	XU Haihua, CHEN Hui, YANG Shangdong, <i>et al</i> (83)
Evaluation on Photovoltaic Siting Based on Probabilistic Voltage Sensitivity of Distribution Network	YAO Yan, YAN Haojun, XU Jiayu (92)
Soft-switching DC-DC Converter for Electric Excitation Synchronous Motor	YAN Weiguo, JIANG Ling, CUI Yulu, <i>et al</i> (98)
Fault Location Scheme for Multi-terminal DC Hybrid Transmission Line Combined with Natural Frequency and Traveling Wave	HAO Yongqi, WANG Qian, SONG Wenfeng, <i>et al</i> (104)
Research on Control Strategy for Micro-grid Adaptive Rotating Inertia Virtual Synchronous Generator	ZHU Zuobin, HUANG Shaoping, LI Zhenxing, <i>et al</i> (111)
Study on Dynamic Time-space Distribution Characteristics of Power System Voltage Based on Measured Data	JIANG He, AN Jun, LI Dexin, <i>et al</i> (116)
Accurate Algorithm for Closing-loop Surge Current in Distribution Network	WU Yanjuan, WANG Haoyue, YANG Li (123)
High Expansibility Boost Converter for Offshore Wind Power Farms	LIU Song, ZENG Qinghui, SONG Anqi, <i>et al</i> (130)
Electricity Price Forecasting Based on CEEMDAN Decomposition and Deep Learning Quantile Regression	PENG Shurong, LI Bin, PENG Junzhe, <i>et al</i> (138)
Rapid Identification of Vulnerable Set in Power Grid Based on Modified HITS Algorithm	YUAN Bo, ZHANG Wenyi, ZHANG Xuemin (145)