

ISSN 1003-8930
CODEN DXJZAA

Proceedings of the CSU-EPSSA

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
2021

第33卷 第4期

Vol.33 No.4

ISSN 1003-8930



9 771003 893210

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 33 卷 第 4 期(总 207 期)

2021 年 4 月

目 次

学术论文

考虑风电接入的电-热耦合能源系统安全性分析研究	朱彦斌,王 丹,李思源,等(1)
智能配电网状态估计研究现状和展望	郑文迪,聂建雄,邵振国,等(8)
基于特征挖掘的 indRNN 光伏发电功率预测	王超洋,张蓝宇,刘 铮,等(17)
谐振接地配电网电弧接地故障暂态分析方法与辨识	杨 帆,任 伟,沈 煜,等(23)
基于平衡优化器的含高比例风光新能源电网无功优化	杨 蕾,李胜男,黄 伟,等(32)
基于系统动力学和演化博弈的光伏项目 EMC 模式投资意愿分析	刘宝林,李小双,曾小松,等(40)
基于 AE-MFCM 技术的电力用户响应特性分析方法	王剑锋,倪家明,王旭东,等(47)
基于双窗全相位 FFT 双谱线插值的谐波和间谐波分析算法	李一然,田立军,吴 勇,等(55)
考虑元件耐受性的电网关键元件辨识	陈 涛,杨秀中,陈 冲,等(62)
基于 LSTM 网络的时间多尺度电采暖负荷预测	李香龙,马龙飞,赵向阳,等(71)
两级式级联 H 桥光伏并网逆变器功率平衡控制策略	杨 行,王明渝,孙雨婷,等(76)
含不确定源荷虚拟电厂参与需求响应优化控制方法	刘井军,刘 涛,周 旭,等(84)
计及需求侧响应的含 PET 交直流混合系统日前优化调度	梁丹曦,宋 洁,彭笑东,等(90)
基于串行式 GA-BP 的短期负荷预测方法	张 海,李士心,石 军,等(97)
基于非侵入式负荷监测的用户行为精细化分析	王 琳,郭志鹏,张郁静(102)
基于 AGM 曲线能量的配电网故障区段定位方法	赵建文,李 璞,冯泽鐔(108)
基于多尺度行波功率的 T 接线路故障识别方法	杨 杰,吴 浩,胡潇涛,等(115)
考虑 HI 理论和在线监测误差的配电网可靠性评估	顾佳浩,谈淑恒(127)
计及容量加权的谐波责任划分方法	张华赢,李 艳,高 敏,等(135)
基于区块链的户用光伏多边交易平台设计与实现	薛文琦,李培强,王继飞,等(142)

期刊基参数:CN 12-1251/TM*1989*m*A4*150*zh*P*¥10.0*700*20*2021-04

Proceedings of the CSU-EPSA

Vol. 33 No.4 (Sum 207)

April 2021

Contents

Theoretical Research

- Study on Security Analysis of Electricity-heat Coupled Energy System Considering Wind Power Access
..... ZHU Yanbin, WANG Dan, LI Siyuan, *et al* (1)
- Status Quo and Prospect of Researches on State Estimation for Smart Distribution Network
..... ZHENG Wendi, NIE Jianxiong, SHAO Zhenguo, *et al* (8)
- Feature Mining Based indRNN Photovoltaic Power Generation Prediction
..... WANG Chaoyang, ZHANG Lanyu, LIU Zheng, *et al* (17)
- Transient Analysis Method and Identification of Arc Grounding Faults in Petersen Coil Grounded Distribution Network
..... YANG Fan, REN Wei, SHEN Yu, *et al* (23)
- Reactive Power Optimization of Power Grid with High-penetration Wind and Solar Renewable Energies Based on Equilibrium
Optimizer YANG Lei, LI Shengnan, HUANG Wei, *et al* (32)
- Investment Willingness Analysis of EMC PV Project Based on System Dynamics and Evolutionary Game Theory
..... LIU Baolin, LI Xiaoshuang, ZENG Xiaosong, *et al* (40)
- Analysis Method for Power User Response Characteristics Based on AE-MFCM Technology
..... WANG Jianfeng, NI Jiaming, WANG Xudong, *et al* (47)
- Harmonics and Interharmonics Analysis Algorithm Based on Double-spectral-line Interpolation of Double-window All-phase FFT
..... LI Yiran, TIAN Lijun, WU Yong, *et al* (55)
- Identification of Critical Components in Power Grid Considering the Resilience of Components
..... CHEN Tao, YANG Xiuzhong, CHEN Chong, *et al* (62)
- Multi-time Scale Electric Heating Load Forecasting Based on Long Short-term Memory Network
..... LI Xianglong, MA Longfei, ZHAO Xiangyang, *et al* (71)
- Power Balance Control Strategy for Two-stage Cascaded H-bridge Photovoltaic Grid-connected Inverter
..... YANG Hang, WANG Mingyu, SUN Yuting, *et al* (76)
- VPP Demand Response Control Method Considering Uncertainties in Source and Load
..... LIU Jingjun, LIU Tao, ZHOU Xu, *et al* (84)
- Optimal Scheduling of AC/DC Hybrid System with PET Considering Demand-side Response
..... LIANG Danxi, SONG Jie, PENG Xiaodong, *et al* (90)
- Short-term Load Forecasting Method Based on Serial GA-BP ZHANG Hai, LI Shixin, SHI Jun, *et al* (97)
- Refined Analysis of User Behavior Based on Non-intrusive Load Monitoring
..... WANG Lin, GUO Zhipeng, ZHANG Yujing (102)
- Fault Line Section Location Method for Distribution Network Based on AGM Curve Energy
..... ZHAO Jianwen, LI Pu, FENG Zexin (108)
- Fault Identification Method for T-connection Transmission Lines Based on Multiscale Traveling Wave Power
..... YANG Jie, WU Hao, HU Xiaotao, *et al* (115)
- Reliability Evaluation on Distribution Network Considering HI Theory and Online Monitoring Error
..... GU Jiahao, DAN Shuheng (127)
- Harmonic Responsibility Division Method Considering Capacity Weighting
..... ZHANG Huaying, LI Yan, GAO Min, *et al* (135)
- Design and Implementation of Household-use PV Multi-lateral Trading Platform Based on Blockchain
..... XUE Wenqi, LI Peiqiang, WANG Jifei, *et al* (142)