

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

3
2013

第25卷 第3期

Vol. 25 No.3

ISSN 1003-8930



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 25 卷 第 3 期(总 116 期)

2013 年 6 月

目 次

学术论文

考虑电动汽车充电站选址定容的配电网规划	陈 婷,卫志农,吴 霜,等(1)
基于层叠泛化策略的母线负荷预测模型	黄帅栋,卫志农,丁 怡,等(8)
短期负荷预测的解耦决策树新算法	李 响,黎灿兵,曹一家,等(13)
分区支持向量回归及其在负荷预测中的应用	谷云东,胡芳芳(20)
考虑主从控制策略的微电源逆变器设计	潘 远,李培强,李欣然,等(25)
新型 AT 供电牵引网故障测距方案	李 岗,林国松,韩正庆(31)
采用量子遗传算法的船舶电网故障诊断方法	王家林,夏 立,吴正国,等(35)
移频测试高压输电线路离线故障检测	郑 伟,拜润卿,智 勇,等(40)
包括供电瓶颈识别的电力系统供电能力评估	李 力,李剑辉,高 超,等(43)
风光蓄交流微电网的控制与仿真	韩肖清,曹增杰,杨俊虎,等(50)
基于振动的变压器监测与分析中最优测点选择	陈 楷,王春宁,刘洪涛,等(56)
开关磁阻风力发电系统输出电压优化控制	曾 武,易灵芝,禹云辉,等(61)
微网孤岛运行下储能控制策略的分析与仿真	杨海晶,李朝晖,石 光,等(67)
电机轴承故障的数字信号处理器在线诊断方法	薛征宇,邱赤东,王 宁,等(72)
含风电机组的配电网电容器投切	王 威,韩学山,李保银(77)
基于相似日负荷修正的台风期间短期负荷预测	李小燕,文福拴,卢 恩,等(82)
配电变压器额定容量在线测量方法	李 霞,陈民铀,王 平,等(90)
永磁直驱风电变流器功率器件损耗分析	景 巍,谭国俊,马小平(94)
电网电压不平衡下电压同步信号的检测	陈益广,闫志乾,王 颖(98)
城市电网中的远方备用电源自动投入	赵达维,刘天琪,卢政尧(103)
考虑随机特性的微电网电源优化配置	卢 洋,卢锦玲,石少通,等(108)
热电联产机组调峰能力的研究与应用	张 宇,鄂志君,刘卫平,等(115)
潮流追踪解析算法	李传栋,王建明,杨桂钟(119)
互联电网 AGC 的分数阶 PID 控制	杨 平,董国威(124)
逆变器正斜率特性实现方法及系统稳定性分析	林 勇(130)
层次分析法在孤岛微网综合评价中的应用	陈庆前,余 畅,章激扬,等(133)
城市中压配网中性点小电阻接地方式分析	干耀生,唐庆华,方 琼,等(138)
布莱克窗函数频域插值电力谐波计算	唐 轶,陈 奎,韩智强,等(142)
IEC61850 标准在馈线自动化中的应用	姚崇固,滕 欢,袁 龙,等(147)
基于自适应 Terminal 滑模的混沌振荡控制	王 鹤,李耀峰,张守龙,等(152)
基于神经网络和冗余技术的传感器检测系统	雷云涛(158)
小波包变换在风电场谐波分析中的应用	解胜民,杨秀媛(162)

期刊基本参数:CN 12-1251/TM*1989*b*A4*166*zh*P*¥20.00*700*32*2013-06

Proceedings of the CSU-EPSC

Vol. 25 No.3(Sum 116)

June 2013

Contents

Theoretical Research

- Distribution Network Planning by Considering Siting and Sizing of Electric Vehicle Charging Stations
CHEN Ting, WEI Zhi-nong, WU Shuang, *et al* (1)
- Bus Load Forecasting Model Based on Stacked Generalization HUANG Shuai-dong, WEI Zhi-nong, DING Qia, *et al* (8)
- New Algorithm of Short-term Load Forecasting According to Decision Tree and Decoupling
..... LI Xiang, LI Can-bing, CAO Yi-jia, *et al* (13)
- Partitioned Support Vector Regression and Its Application on Load Forecasting GU Yun-dong, HU Fang-fang (20)
- Design of Micropower Inverter Considering Master-Slave Control Strategy
..... PAN Yuan, LI Pei-qiang, LI Xin-ran, *et al* (25)
- Fault Location of Novel AT Power Traction Network LI Gang, LIN Guo-song, HAN Zheng-qing (31)
- Fault Diagnosis Method of Shipboard Power System Using Quantum Genetic Algorithm
..... WANG Jia-lin, XIA Li, WU Zheng-guo, *et al* (35)
- Off-line Fault Detection on High Voltage Transmission Line Based on Frequency Shift Test
..... ZHENG Wei, BAI Run-qing, ZHI Yong, *et al* (40)
- Assessment of Load Supply Capability Including Identification of Power Supply Bottleneck
..... LI Li, LI Jian-hui, GAO Chao, *et al* (43)
- Control and Simulation of Wind-PV-Battery AC Microgrid HAN Xiao-qing, CAO Zeng-jie, YANG Jun-hu, *et al* (50)
- Optimal Measuring Point Selection Based on Monitoring and Analysis of Transformer Vibration
..... CHEN Kai, WANG Chun-ning, LIU Hong-tao, *et al* (56)
- Output Voltage Optimal Control of Switched Reluctance Wind Power Generator System
..... ZENG Wu, YI Ling-zhi, YU Yun-hui, *et al* (61)
- Analysis and Simulation of Energy Storage System under Micro-island Operation
..... YANG Hai-jing, LI Zhao-hui, SHI Guang, *et al* (67)
- Online Diagnosis Method for Motor Bearing Fault Based on Digital Signal Processor
..... XUE Zheng-yu, QIU Chi-dong, WANG Ning, *et al* (72)
- Capacitor Switching of Distribution Network with Wind Turbines WANG Wei, HAN Xue-shan, LI Bao-yin (77)
- Short-term Load Forecasting in Typhoon Periods Based on Load Modification of Similar Days
..... LI Xiao-yan, WEN Fu-shuan, LU En, *et al* (82)
- Novel Method for Online Measuring the Capacity of Distribution Transformer ... LI Xia, CHEN Min-you, WANG Ping, *et al* (90)
- Analysis of Converter Losses for Permanent Magnet Direct-Drive Wind Power JING Wei, TAN Guo-jun, MA Xiao-ping (94)
- Synchronization Signal Detection of Voltage under Unbalanced Grid Voltage Condition
..... CHEN Yi-guang, YAN Zhi-qian, WANG Ying (98)
- Remote Automatic Bus Transfer Equipment in City Power Grid ZHAO Da-wei, LIU Tian-qi, LU Zheng-yao (103)
- Optimal Siting and Sizing of Distributed Generation Planning in Microgrid by Considering Stochastic Characteristic
..... LU Yang, LU Jin-ling, SHI Shao-tong, *et al* (108)
- Study and Application of Heating Units' Peak-load Regulating Capacity ZHANG Yu, E Zhi-jun, LIU Wei-ping, *et al* (115)
- Analytical Algorithm for Tracing Power Flow LI Chuan-dong, WANG Jian-ming, YANG Gui-zhong (119)
- Fractional Order PID Control for AGC of Interconnected Power System YANG Ping, DONG Guo-wei (124)
- Realization of Positive Slope Characteristic of Inverter and Analysis of Systematic Stability LIN Yong (130)
- Application of Analytic Hierarchy Process in Comprehensive Evaluation of Island Microgrid
..... CHEN Qing-qian, YU Chang, ZHANG Ji-yang, *et al* (133)
- Analysis of Low-resistance Neutral Grounding in Urban Medium-voltage Power Grid
..... GAN Yao-sheng, TANG Qing-hua, FANG Qiong, *et al* (138)
- New Calculation Method of Electric Power Harmonic in Frequency Domain Interpolation of Blackman Windows
..... TANG Yi, CHEN Kui, HAN Zhi-qiang, *et al* (142)
- Application of IEC61850 Standard in the Feeder Automation YAO Chong-gu, TENG Huan, YUAN Long, *et al* (147)
- Chaotic Oscillation Control Based on Adaptive Terminal Sliding Mode
..... WANG He, LI Yao-feng, ZHANG Shou-long, *et al* (152)
- Sensor Detecting System Based on Neural Networks and Redundancy LEI Yun-tao (158)
- Application of Wavelet Packet in Harmonic Analysis for Wind Power Plants XIE Sheng-min, YANG Xiu-yuan (162)