

## Best Paper Award

ID	Information
5	Title: Bidding Behavior Analysis in Joint Electricity and Carbon Market by Hybrid Experimental Learning Author: Wenxuan Liu, Yarong Hu, Jinjie Liu, Wenxuan Liu, Gaoqi Liang
36	Title: Optimal Aggressive Level-based Offering Method for Hybrid PV Plants Author: Xiaoge Huang, Zhenhuan Ding, Zhao Liu, Ziang Zhang
84	Title: A Cooperative Scheduling Strategy of Renewable Energy and Electric Vehicle Considering Reactive Power Response Author: Jun Li, Yuanyuan Li, Yuqi Wang,Ziyu Zhang,Xiaosheng Zhang,Tao Ding
167	Title: Design and Analysis of Rotating Cold Mass Support of Superconducting Wind Turbine Generator Author: Qi Xiong, Bin Zhang, Sisi Peng
198	Title: Research on Approximate Fault Current Expression in Hybrid Multi-terminal HVDC Network During DC-Side Fault Author: Tao LI, Yongli LI
210	Title: Carbon-aware Integrated Energy System Operation with Demand Response Author: Linwei Sang, Yinliang Xu, Wai Kin Victor Chan, Zixuan Wei.
240	Title: Research on fault diagnosis and fault tolerant control of PMSM current sensor Author: Xiaobing Niu, Shangbo Li, Xin Zhou
244	Title: Model Predictive Control for SPMSM Control System with Parameter Robustness Improvement Author: Xiaoguang Zhang, Ziwei Wang
280	Title: Harmonic Suppression Strategies and Seamless Transfer Control between Grid-Connected and Islanding Modes in Renewable Energy System for Hydrogen Production Author: Tao Sun, Ziwei Yu, Dan Sun, Heng Nian, Tianqi Xia
281	Title: MPC Active and Reactive Coordinated Voltage Control Considering Adjustment Cost Author: Chen Luo, Ziran Jin, ongbin Wu
285	Title: Analysis of Self-excited Voltage Building of High-low Voltage Dual Stator-winding Induction Generator Considering Mutual Leakage Inductance Author: Kun Wang, Xinzhen Wu
332	Title: Dynamic Risk Reserve Quantification and Economic Analysis of Its Cooperative Dispatching Among Multi-DERs in a VPP Author: Xingyu Yan, Southeast University
336	Title: Dynamic State Estimation for The Low-Carbon Integrated Electricity-Heat-Gas System Author: Yuan Yao, Yinliang Xu, Wai Kin(Victor) Chan, Yu Zeng

450	Title: A method for detecting a novel stealthy profit-oriented cyber attack Author: Ruotong Wang, Yongfeng Mao, Chunyu Chen, Mingjian Cui, Kaifeng Zhang
452	Title: Electrothermally-Aware Multi-objective Modular Design: A Case Study on Series-Parallel Plug-in Hybrid Electric Vehicles Author: Kailong Liu, Ji Li, Chong Zhu, Tao Chen, Kang Li, Quan Zhou, Hongming Xu
483	Title: Fast Computation Methods for Constructing Data-Driven Linear Power Flow Model Author: yitong liu zhengshuo li
485	Title: Anti-icing performance and mechanism of hydrophobic cycloaliphatic epoxy resin modified by polysiloxane Author: Yuhao Liu, Li Yin, Min Xie, Liming Wang
508	Title: Frequency Regulation Strategies of BESS and Doubly-fed Variable Speed Pumped Storage Unit Under Multiple Operating Conditions Author: Bin Sun, Feng Wu, Keman Lin, Yang Li, Zizhao Wang, Hanchen Liu.
535	Title: A Deep Reinforcement Learning Voltage Control Method for Distribution Network Author: Peishuai Li, Jiawei Shen, Minghui Yin, Zaijun Wu, Yong Zhang
551	Title: Online Learning Enabled Hierarchical Distributionally Robust Model Predictive Control of Green-Hydrogen Microgrids under Uncertainties Author: Chao Ning, Longyan Li
677	Title: Study on Microcapsules for Self-healing System of Silicone Rubber Insulating Material Authors: Mingzhe Li, Ruiqi Shang, Yuhao Liu, Bin Cao, Liming Wang
691	Title: Electrical Tree Performance of Epoxy Resin Used in Power Electronic Transformer under Bipolar Square Wave Voltage Author: xiaopeng zha, kun wang jianying li
706	Title: Low Computational Estimated Position Error Compensation and Phase-locked Loop Normalization for PMSM Sensorless Control Author: Ruijia Zhang, Qinfeng Hu
724	Title: A Robust Measurement-Based Error Signal based on Model Predictive Control for AGC system Author: Rui Chen, Deping Ke, Yuanzhang Sun, Jian Xu, Siyang Liao, Bo Wang, Zhe Zhang, Yuhui Wu
726	Title: Detection of SF6 characteristic decomposition component H2S by cavity ring-down spectroscopy Author: Xue Lin, Heng Ma, Fangfang Wu, Shengyi Xie, Anhao Jiang, Chaohai Zhang
742	Title: Research on the Evaluation Framework of Renewable Energy Accommodation in Electricity Market Author: Chen Wu, Kaihui Nan, Jian Tan, Longpeng Ma, Wenjuan Niu, Guiyuan Xue, Chen Chen, Yixuan Lou

750	Title: Electric vehicle charging load clustering and load forecasting based on long short term memory neural network Author: Haowei Wang, Xueliang Huang, Shan Gao, Zexin Yang, Tian Gao, Qi Zhao, Hongen Ding
788	Title: Subsynchronous Oscillation Research of LCC-HVDC Receiving End System with Large-scale Renewable Power Generation Author: Buyang Du, Jianhang Zhu, Jiabing Hu, Zeren Guo, Dejun Shao, Youping Xu, Mengxuan Shi
797	Title: Design of a Nonintrusive Current Sensor with Large Dynamic Range Based on Tunneling Magnetoresistive Devices Author: Sen Qian, Hui Deng, Chuan Chen, Hui Huang, Yun Liang, Jinghong Guo, Zhengyong Hu, Wenrong Si, Hongkang Wang, Yunjia Li
798	Title: Comparison of 2-Pole Slotted High-speed Motors with Toroidal and Tooth-coil Windings Author: Fan Xu, Tianran He, Ziqiang Zhu, Hong Bin, Di Wu, Liming Gong, Jintao Chen
849	Title: Research on fault detection and location method of avionic data bus Author: Weijia Chen, Li Wang, Shanshui Yang, Hongzhen Chen
853	Title: Stochastic Dynamic Programming based Energy Mangement of a Residential Cogeneration System Authors: Xianlian Wang, Li Sun, Yisong Zhang.
860	Title: Effect of Silicone Grease Coating on Space Charge Characteristics of XLPE/SIR Interface Author: Dianjie Tong, Qiulin Zhao, Shaoli Zhang, Cong Wang, Renjie Cao, Youping Tu, Zhong Zheng
884	Title: Analysis of Transformer Audible Noise Based on Redundant Convolutional Encoder Decoder Author: Zhenzong Liang, Jingsong Li, Yushuai Qi, Linyu Li, Guofeng Li, Nianfeng Zheng, Zhongqing Wang
924	Title: Whole-system Potential and Benefit of Energy Storage by Vehicle-to-grid (V2G) under Carbon Neutrality Target in China Author: Yifan Wei, Kang Pang, Yudi Qin, Haiyan Huang, Xuebing Han, Languang Lu, Minggao Ouyang
1001	Title: Comparative Analysis of PIV-Based and Model-Based Methods in Calculating Electrical Force Produced by a Blade-Plane Actuator Author: Zelu Yan, Christophe Louste, Philippe Traoré, Jian-an Fang, Weizong Wu, Jinlin Lin
1005	Title: Research on Innovative Design of Stator Tooth Structure for Permanent Magnet Synchronous Motor for Anisotropic Silicon Steel Author: Anrui Hu, Lei Wang, Xiangjian Zhang, Hang Zhang, Ruilin Pei
1021	Title: Predictive Control Strategy of Power Electronic Traction Transformer for Fault Tolerance Condition Author: Nan Zhao, Zedong Zheng, Yongdong Li

1027	Title: A TMR based Current Measurement Sensor for HVDC Transmission System Author: Fan Yang, Chong Xu, Bangda Wei, Bangyan Wang, Youwen Zhang
1050	Title: Windage Loss and Torque Ripple Reduction in Stator-permanent Magnet Flux-switching Machines Author: Zhiheng Zhang, Wei Hua, Wenfei Yu, Peixin Wang, Mingjin Hu, Gan Zhang
1097	Title: Small-Sample Interval Prediction Model based on Transfer Learning for Solar Power Prediction Author: Runhao Geng, Huan Long, Wei Gu
1135	Title: A Novel Heteropolar Hybrid-Magnetic-Circuit Memory Machine Authors: Hui Yang, Yixian Wang, Wei Liu, Heyun Lin, Z. Q. Zhu, Hanlin Zhan, Wenjie Chen, Di Wu, Minghu Yu
278	Title: Two-Dimensional Free Positioning Wireless Charging System Based on Tilted Long-Track Transmitting Coil Array Author: Yiming Zhang, Yuanchao Wu, Wenbin Pan, Hui Wang, Zhiwei Shen, Xin Li
390	Title: Physical Design of a Compact High-energy Electron Source Applied to On-site Non-destructive Testing Author: Junyang Li, Tongning Hu, Hongjie Xu, Jun Yang
400	Title: Linearized Frequency Deviation Based Frequency-Constrained Unit Commitment with Support from Wind Farm Author: Kun Li, Dong Liu, Pan Gu, Weidong Qiu, Jiakun Fang, Xiaomeng Ai
458	Title: Non-Intrusive Load Decomposition Based on Graph Convolutional Network Author: Jie YUAN, Ya Juan QIU, Li hui WANG
614	Title: An Instantaneous Torque Model and the Practical Calculation Method for Permanent Magnet Synchronous Machines Author: Yu Zou, Jianyun Chai, Haifeng Lu, Xudong Sun
651	Title: Backlash Compensation using Backstepping Adaptive Control in Servo Transmission System Authors: Hairong Ye, Bo Wang, Kai Liu, Wei Hua, Xin Wang
960	Title: Optimal Stepwise Inertial Control of Wind Turbine Based on Fuzzy Control and Deep Neural Network Author: Tao Zhou, Yalun Wang, Yan Xu
986	Title: Influence of Gate Resistance on Crosstalk of SiC MOSFETs Author: Hao Xu, Yumeng Cai, Peng Sun, Zhibin Zhao
1160	Title: Adaptive-restarting EKF-Based Method for Online Identification of Sub-Synchronous Oscillation Author: Xi Chen, Xi Wu, Qingfeng Li, Qiang Li, Bixing Ren, Ke Xu
1089	Title: Hierarchical Aggregation and Scheduling Potential Analysis for Residential Flexible Loads Author: Junjun Xu, Xiang Zhang, Haijiao Liu, Tengfei Zhang