**A01-6**

Harmonic Transfer Characteristics through Transformer and MMC in Renewable Energy Systems


| | |
|---|---|
| Wenhao Lu | China Southern Power Grid, Co., Ltd. |
| Xiaohan Li | Chongqing University |
| zhicheng Pan | China Southern Power Grid |
| Yu Jiang | China Southern Power Grid, Co., Ltd. |
| Fan Yang | Chongqing University |
| Chun Li | Electric Power Research Institute of EHV Power Transmission Company China Southern Power Grid |


**A01-9**

Adjustable Method and Implementing Device for Direct Current Ice-melting Discharge Clearances


| | |
|---|---|
| MingZhen Lei | China Southern Power Grid Extra-High Voltage Transmission Company Liuzhou Bureau |
| dejun qin | China Southern Power Grid Company Limited, EHV Power Transmission Company, Liuzhou Bureau |
| wei zhang | China Southern Power Grid Company Limited, EHV Power Transmission Company, Liuzhou Bureau |
| Wen-Tao Xu | China Southern Power Grid Limited Liability Company Ultra-high Voltage Transmission Company Liuzhou Bureau |
| lianjie jiao | China Southern Power Grid Company Limited, EHV Power Transmission Company, Liuzhou Bureau |
| tao chen | China Southern Power Grid Company Limited, EHV Power Transmission Company, Liuzhou Bureau |

**A01-10**

Magnetic Field Equivalence Verification of Bridge Arm Reactors for BorWin6 MMC-HVDC Converter Valve


| | |
|---|---|
| Zhixiang Wang | China Electric Power Research Institute (CEPRI) |
| Ruiheng Wang | China Electric Power Research Institute (CEPRI) |
| Chenghao Wang | China Electric Power Research Institute Co., Ltd |
| Jian Xie | China Electric Power Research Institute |
| Wei Zhou | China Electric Power Research Institute |
| Boya Zhao | China Electric Power Research Institute |


**A01-12**

Thermo-oxidative stability and thermal decomposition behavior of polypropylene pellets


| | |
|---|---|
| xiang xiao | Electric Power Research Institute of EHV Power Transmission Company, CSG |
| Rui He | Guangxi University |
| Wenhao Lu | China Southern Power Grid, Co., Ltd. |
| Yong Sun | Maintenance & Test Center of China Southern Power Grid Extra High Voltage Power Transmission Company |
| Zhilang Qin | Guangxi University |
| Yufan Fan | Guangxi University |
| Zhang Yiyi | Guangxi University |


**A01-13**

Molecular Dynamics Simulation of Montmorillonite Modified Polypropylene Materials for Capacitors


| | |
|---|---|
| xiang xiao | Electric Power Research Institute of EHV Power Transmission Company, CSG |
| Zhilang Qin | Guangxi University |
| Wenhao Lu | China Southern Power Grid, Co., Ltd. |
| Yong Sun | Maintenance & Test Center of China Southern Power Grid Extra High Voltage Power Transmission Company |
| Rui He | Guangxi University |
| Yufan Fan | Guangxi University |
| Zhang Yiyi | Guangxi University |

**A01-24**

Graded Treatment Technology for Ice-Shedding-Induced Flipping and Twisting of Bundled Conductors in DC Transmission Lines

| | |
|---|---|
| Yangzhi Wei | Extra High Voltage Power Transmission Company, Liuzhou Bureau |
| Shaobei Zhang | China Southern Power Grid Extra High Voltage Power Transmission Company Liuzhou Bureau |
| Fenglong Zhao | China Southern Power Grid Extra High Voltage Power Transmission Company Liuzhou Bureau |
| Guogen Li | Liuzhou Bureau, CSG EHV Power Transmission Company |

**A01-29**

Comparative Seismic Characterization of Typical Electrical Equipment Based on Modal Fingerprints and Governing Demand Ratios

| | |
|---|---|
| Mengyao Qin | Guangxi University |
| Zekuan Zhu | Nanning Pumped Storage Power Generation Company Limited |
| Fangming Zhang | Engineering Construction Management Branch Company |
| Yufan Fan | Guangxi University |
| Peijun Shi | Universiti Malaya |
| Kaining Liang | Guangxi University |
| Dengke Xi | Guangxi university |
| Zhang Yiyi | Guangxi University |

**A01-33**

Field Evidence of Increased AC Filter Switching Duty in LCC-HVDC Converter Stations under Electricity Spot-Market Operation

| | |
|---|---|
| Fengshou Han | EHV Power Transmission Company, China Southern Power Grid |
| jiongguang zheng | CSG EHV Power Transmission Company |
| Zhi liang Ye | China Southern Power Grid |

**A01-34**

MMC Submodule Capacitor Voltage Ripple Suppression Using Multiple Degrees of Freedom

| | |
|---|---|
| Guanlong Jia | Hebei University of Technology |

**A01-36**

An Intelligent Substation Noise Separation Method Based on CNABTCN


| | |
|---|---|
| Yuxin Zhou | State Grid ChongqingcElectric Power Research Institute |
| Guangming Wang | State Grid ChongqingcElectric Power Research Institute |
| Luwen Xu | State Grid ChongqingcElectric Power Research Institute |


**A01-37**

Structure Mismatch Characteristics of Closing Resistors Under the Mechanical Vibration of Circuit Breaker Switching


| | |
|---|---|
| Xinlu Tuo | State Grid Corporation of China Northwest Branch |
| Jianghong Ma | State Grid Corporation of China Northwest Branch |
| Xin Li | State Grid Corporation of China Northwest Branch |
| Zuibing Xie | State Grid Corporation of China Northwest Branch |
| Zhiwei Lei | Xi'an Jiaotong University |
| Xiaoang Li | Xi'an Jiaotong University |


**A01-38**

Safety Operation Method and System for Live Replacement of Transmission Line Insulators Based on Multi-Source Condition Monitoring


| | |
|---|---|
| Caifa Shi | Liuzhou Bureau , CSG EHV Power Transmission Company |
| Yangzhi Wei | Extra High Voltage Power Transmission Company, Liuzhou Bureau |
| Songqiang Huang | Liuzhou Bureau,EHV Transmission Company,China Southern Power Grid Co., Ltd |
| Hui Li | China Southern Power Grid Co., Ltd. Ultra High Voltage Transmission Company |
| Guojing Da | Liuzhou Bureau , CSG EHV Power Transmission Company |
| Bobo Lei | Guangxi |

**A01-39**

Field Measurements and Statistical Analysis of Voltage Harmonics in Substations


| | |
|---|---|
| Zhong Zhang | Chongqing University |
| Ming Yang | Chongqing University |
| Wenxia Sima | Chongqing University |
| Wenhao Lu | Maintenance & Test Center of China Southern Power Grid Extra High Voltage Power Transmission Company |
| Yuanyang Ren | Chongqing University |
| Zhen Hu | Chongqing University |


**A01-63**

Analysis of an Abnormal Valve-Side Bushing Test of a ±400 kV Flexible DC Converter Transformer


| | |
|---|---|
| Jin Liu | China Southern Power Grid EHV Transmission Company Liuzhou Bureau,Liuzhou,545006 |
| Guishan Wang | China Southern Power Grid EHV Transmission Company Liuzhou Bureau,Liuzhou,545006 |
| Zhida Lu | China Southern Power Grid EHV Transmission Company Liuzhou Bureau,Liuzhou,545006 |
| Hao Jiang | China Southern Power Grid EHV Transmission Company Liuzhou Bureau,Liuzhou,545006 |


**A01-68**

Improved DC Fault Ride-Through of Hybrid MMC Using Coordinated Voltage Control and a Bypass Branch


| | |
|---|---|
| Miaoqi Huang | North China Electric Power University |
| Xibei Zhao | North China Electric Power University |
| Chengyong Zhao | North China Electric Power University |


**A01-71**

Influence of Epoxy Core Structural Parameters on Gas-Solid Interfacial Electric Field and Charge Accumulation in a DC Wall Bushing


| | |
|---|---|
| Jinyin Zhang | Maintenance & Test Center of China Southern Power Grid Extra High Voltage Power Transmission Company |
| Jiarui Cui | Hunan University |
| She Chen | Hunan University |

**A01-72**

Dictionary Learning-Based Frequency-Band Decomposition of Wideband Voltage Signals in Flexible DC Grids


| | |
|---|---|
| Guochao Qian | Yunnan Power Grid Co., Ltd. |
| Yuan Wenze | Chongqing University |
| TAO YUAN | Chongqing University |
| Wenxia Sima | Chongqing University |
| Ming Yang | Chongqing University |
| Yuanyang Ren | Yunnan Power Grid Co., Ltd. |


**A01-73**

Mechanism of Healthy-Pole Overvoltage and Effect of DC Circuit Breaker Operation During Pole-to-Ground Faults in Flexible DC Grids


| | |
|---|---|
| Xue Han | chongqingjiaotonguniversity |
| Shuyan Bai | Chongqing Jiaotong University |


**A01-74**

Effects of Low-Level Mineral Oil Residue on Ester-Based Insulating Liquids: Optimal Mixing Intervals for Power Transformer Insulation3


| | |
|---|---|
| Keyu Ren | State Grid Henan Electric Power Company |
| Wenzheng Li | State Grid Henan Electric Power Company |
| Piaopiao You | State Grid Henan Electric Power Company |
| Tao Yang | State Grid Henan Electric Power Company |
| Nan Yao | State Grid Henan Electric Power Company |
| Xuyang Li | State Grid Henan Electric Power Company |


**A01-81**

Lift-off and Motion Characteristics of Metal Particles in Gas-Insulated Switchgear Under Positive DC Voltage


| | |
|---|---|
| Jiamin Li | Xi'an Jiaotong University |
| Shaopu Wang | Xi'an Jiaotong University |
| Xiaoyu Yang | Xi'an Jiaotong University |
| Yuheng Chen | Xi'an Jiaotong University |
| Zhiwei Lei | Xi'an Jiaotong University |
| Xiaoang Li | Xi'an Jiaotong University |


**A01-82**

Inversion Method for Equivalent Thermal Conductivity of the Bushing Capacitive Screen Based on Physics-Informed Neural Network


| | |
|---|---|
| Heng Wu | China Southern Power Grid Co.Ltd |

**A01-84**

Study on Deflection Testing and Mechanism of ±800 kV Flexible DC Wall Bushing Based on Laser Scanning Method


| | |
|---|---|
| Zerui Wang | Power Research Institute of South Grid Ultra High Voltage Company |


**A01-87**

Communication-Independent Blocking Protection Method for Bipolar HVDC Systems Based on Fast-Closing Bypass Switches


| | |
|---|---|
| Yining Zhang | CSG Electric Power Research Institute |
| Qingming Xin | China Southern Power Grid Electric Power Research Institute Company |
| Biyue Huang | Electric Power Research Institute, China Southern Power Grid Company, Ltd. |
| Qifan Yang | China Southern Power Grid Electric Power Research Institute |
| Yuxin Lu | Electric Power Research Institute of China Southern Power Grid |
| Dizhen Xu | South China University of Technology |


**A01-88**

Condition Aware Healthy-Prototype Fusion with MultiRocket for Vibration-Based Fault Identification in $SF_6$ Current Transformers


| | |
|---|---|
| Guang Chen | lectric Power Bureau EHV Transmission Company, Nanning, China |
| Caijin Fan | Electric Power Research Institute (EPRI) China Southern Power Grid (CSG) |
| Xiao Su | Nanning Bureau, CSG Extra High Voltage Power Transmission Company |
| Cheng chengchui | China Southern Power Grid |
| Xie Zhuo-yue | Nanning Bureau of Ultra-High Voltage Transmission Company |
| Yan Luo | EPRI of CSG |

**A01-89**

Thermal Vibration Diagnosis of Basin-Type Insulator Faults in $SF_6$ Current Transformers Using a Vibration Transformer and Reliability Gating


| | |
|---|---|
| Xiao Su | Nanning Bureau, CSG Extra High Voltage Power Transmission Company |
| Caijin Fan | Electric Power Research Institute (EPRI) China Southern Power Grid (CSG) |
| Jiezheng Wen | lectric Power Bureau EHV Transmission Company, Nanning, China |
| Cheng chengchui | China Southern Power Grid |
| Guang Chen | lectric Power Bureau EHV Transmission Company, Nanning, China |
| Yan Luo | EPRI of CSG |


**A01-93**

Third-Harmonic Voltage Injection Effect on the Electric Field Distribution of ±800kV Resin-Impregnated Paper Valve-Side Bushing


| | |
|---|---|
| Chunlei Ren | Chongqing University |


**A01-94**

Multi-physics Coupling Modeling and Simulation Analysis of 500 kV Oil-filled Submarine Cable Termination under Extreme Operating Conditions


| | |
|---|---|
| Zerui Wang | Power Research Institute of South Grid Ultra High Voltage Company |


**A01-105**

Effects of Pore Size and Gas Pressure on Electron Transport During Early-Stage CO2 Discharge in Nanopores


| | |
|---|---|
| Chuanlin Xie | Chongqing University |
| POTAO SUN | Chongqing University |
| Yuan Xu | electric power research institute, csg |
| Zeyan Shi | State Grid Henan Electric Power Company Electric Power Science Research Institute |
| Weifeng Xin | Electric Power Research Institute of State Grid Henan Electric Power Company |
| Zhenyu Zhan | Electric Power Research Institute of State Grid Henan Electric Power Company |

**A01-110**

Internal Short-Circuit Fault Development and Electromagnetic Transient Analysis of a Converter Transformer


| | |
|---|---|
| Xinlei Zhang | Chongqing University |
| Chengzhi Zhang | Chongqing University |
| POTAO SUN | Chongqing University |
| Yueping Yang | Electric Power Research Institute of State Grid Sichuan Electric Power Company |


**A02-4**

Coordinated Active Power Control Method for AC-DC Parallel Transmission Systems During Transients


| | |
|---|---|
| ZHAO FENG | North China Branch of State Grid Corporation of China |
| PENGFEI GAO | North China Branch of State Grid Corporation of China |
| ZHONGQING SUN | State Grid |
| ZHIYI ZHANG | NARI-TECH Nanjing Control Systems Ltd |
| Zhaowei Li | NARI Group Corporation |


**A02-21**

Simulation Model of Lightning Impulse Flashover in UHV DC Tower Head Air Gaps Considering Altitude Effects


| | |
|---|---|
| Ruiyan Tang | Liu zhou Bureau of CSG EHV Power Transmission Company |
| Guogen Li | Liuzhou Bureau, CSG EHV Power Transmission Company |
| Yangzhi Wei | Extra High Voltage Power Transmission Company, Liuzhou Bureau |
| bin zhao | Liuzhou Bureau, EHV Power Transmission Company, China Southern Power Grid |
| Tao Liu | China Southern Power Grid Co., Ltd. Extra High Voltage Power Transmission Company Liuzhou Bureau |
| Xiaojie Xie | China Southern Power Grid Co., Ltd. Ultra High Voltage Transmission Company |
| Yonggan Wei | China Southern Power Grid Company Limited, EHV Power Transmission Company |

**A02-22**

Performance and Structural Optimization of Segmented Alicyclic Epoxy Rigid Composite Insulators for High-Altitude 500 kV DC Transmission


| | |
|---|---|
| Guogen Li | Liuzhou Bureau, CSG EHV Power Transmission Company |
| Ruiyan Tang | Liu zhou Bureau of CSG EHV Power Transmission Company |
| Yangzhi Wei | Extra High Voltage Power Transmission Company, Liuzhou Bureau |
| kuoteng Sun | Liuzhou Bureau of Extra High Voltage Transmission Company, China Southern Power Grid Co., Ltd. |
| Jianken Lan | Transmission Management Office, Liuzhou Bureau, Ultra-High Voltage Transmission Co. |
| Liujun Mo | zhongguo nanfang dianwang Chaogaoya Shudian Gongsi |
| Jushi Li | Liuzhou Bureau, China Southern Power Grid EHV Transmission Company |


**A03-11**

An Expected Cost-Based SVG Sizing Method for Converter Stations Using Reactive Power Demand Statistics


| | |
|---|---|
| Yuchen Gan | Southeast University |
| Boye Yu | Southeast University |
| Kuan Li | State Grid Shandong Electric Power Research Institute |
| Yanqi Hou | State Grid Shandong Electric Power Research Institute |
| Zhou Li | Southeast University |


**A03-40**

Low-Carbon Economic Dispatch of Wind-PV-Storage Microgrid Based on DE-AELPSO


| | |
|---|---|
| Fuxing An | Shenyang University of Technology |
| Yun Teng | Shenyang University of Technology |
| Liangqian Liu | Shenyang University of Technology |
| Guohui Wei | Shenyang University of Technology |
| Tengliang Xiao | Shenyang University of Technology |

**A03-41**

Dynamic Economic Dispatch Model of Microgrid Based on Improved Deep Reinforcement Learning


| | |
|---|---|
| Liangqian Liu | Shenyang University of Technology |
| Yun Teng | Shenyang University of Technology |
| Fuxing An | Shenyang University of Technology |


**A03-45**

Research on DC Microgrid Voltage Fault Diagnosis Method Based on CNN-BiGRU-Attention


| | |
|---|---|
| Guohui Wei | Shenyang University of Technology |
| qiuhao zhang | Shenyang University of Technology |
| Fuxing An | Shenyang University of Technology |


**A04-5**

Protection Selectivity of Solid-State Circuit Breakers in Multi-Source 800-V DC AI Data Centers


| | |
|---|---|
| Haicheng WANG | Schneider Electric |


**A04-56**

A Hybrid MPPT With Steady-State Duty Lock for Low-Ripple PV Front-Ends of Low-Voltage DC Systems


| | |
|---|---|
| Jia Zhou | Weihai Campus Harbin University of Science and Technology |
| Zhijie Xu | Weihai Campus Harbin University of Science and Technology |
| Qingyu Su | North China Electric Power University |


**A04-62**

Earthing Arrangements in Low-Voltage Direct Current Systems


| | |
|---|---|
| Yan Jianhai | Schneider Electric |


**A04-77**

Analysis of Harmonic Current Aggregation in Multiple Grid-Connected Photovoltaic Systems Considering Harmonic Propagation


| | |
|---|---|
| Meng Li | Shandong University |
| Yahui Li | Shandong University |
| Gang Zhang | State Grid Shandong Electric Power Company |
| Mintian Du | Shandong University |
| Zihan Zhang | Shandong University |
| Shuyi Tong | Shandong University |

**A04-103**

Multi-Delay Compensation-Based Coordinated Control Strategy for Energy Storage Systems Based on a Consensus Algorithm

| | |
|---|---|
| Ling Yang | Guangdong University of Technology |
| Yanzhuo Zhang | Guangdong University of Technology |
| Lvtao Lan | Guangdong University of Technology |
| Junhao Liao | Guangdong University of Technology |
| Jin Zheng | Gaungdong University of Technology |
| yinling yang | Guangdong University of Techonology |
| shuwei chen | Guangdong University of Technology |
| Xiaoye Chen | Guangdong University of Technology |
| Zhenguo Lao | Guangdong University of Technology |

**A05-17**

Capacitive Coupling and Resistive Damping of Subharmonic Ferroresonance in GIS Potential Transformers

| | |
|---|---|
| xianshun wu | Guizhou Beipanjiang Electric Power Co., Ltd., Guangzhao Branch |
| Chunhui Bao | Chongqing University |
| shicheng fan | Guizhou Beipanjiang Electric Power Co., Ltd., Guangzhao Branch |
| bingyuan luo | Guizhou Beipanjiang Electric Power Co., Ltd., Guangzhao Branch |
| Ziyu Zeng | Chongqing University |

**A05-18**

EMT Reconstruction and Opening-State Analysis of an Asymmetric GIS Potential-Transformer Transient

| | |
|---|---|
| Rongjie Yang | CTGU |
| Wenqiu Zhang | Dongqing Branch Guizhou Beipanjiang Electric Power Co., Ltd. |
| Hang You | Nanjing Institute of Technology |
| Xianxian Yang | Dongqing Branch Guizhou Beipanjiang Electric Power Co., Ltd. |
| Chunhui Bao | Chongqing University |
| Ziyu Zeng | Chongqing University |

**A05-25**

Melting Failure Mechanism and Mitigation Strategy of Tension Clamps in Overhead Ground Wires of ±500 kV Double-Circuit DC Lines on the Same Tower Under Ground-Wire Return DC De-Icing


| | |
|---|---|
| Yangzhi Wei | Extra High Voltage Power Transmission Company, Liuzhou Bureau |
| kuoteng Sun | Liuzhou Bureau of Extra High Voltage Transmission Company, China Southern Power Grid Co., Ltd. |
| Guogen Li | Liuzhou Bureau, CSG EHV Power Transmission Company |


**A05-26**

Impact of DC De-Icing of OPGW Ground Wire on Optical Fiber Links and Communication Systems for ±500 kV Double-Circuit DC Transmission Lines on the Same Tower


| | |
|---|---|
| Yangzhi Wei | Extra High Voltage Power Transmission Company, Liuzhou Bureau |
| Guogen Li | Liuzhou Bureau, CSG EHV Power Transmission Company |
| Ruiyan Tang | Liu zhou Bureau of CSG EHV Power Transmission Company |
| kuoteng Sun | Liuzhou Bureau of Extra High Voltage Transmission Company, China Southern Power Grid Co., Ltd. |


**A05-28**

Analysis and Control Measures of Electromagnetic Influence on Underlying Communication Cables During Normal Operation of ±500 kV Double-Circuit HVDC Transmission Lines on the Same Tower


| | |
|---|---|
| Yangzhi Wei | Extra High Voltage Power Transmission Company, Liuzhou Bureau |


**A05-53**

Parameter Measurement of Double AC Transmission Lines on Same Tower under High Induced Voltage


| | |
|---|---|
| Dali XIAO | EPRI, Extra High Voltage Transmission Co., China Southern Grid |
| YAO XIAO | EPRI, Extra High Voltage Transmission Co., China Southern Grid |
| XIAOXIN WEI | EPRI, Extra High Voltage Transmission Co., China Southern Grid |

**A05-54**

Study on transient transmission characteristics and waveform distortion mechanism of CVT opening in UHV converter station

| | |
|---|---|
| Yu Yang | Chongqing University |
| Zhanlong Zhang | Chongqing University |
| Zixiang Bao | Chongqing University |

**A05-67**

Non-Piecewise SPICE Behavioral Model of SiC MOSFET for Switching Transient Simulation

| | |
|---|---|
| Luwei Wang | School of Electrical and Electrical Engineering |
| Xinglin Liao | Chongqing University of Technology |
| Yunhui Zhang | UESTC Deyang Research Institute |
| Chen-Yu Cao | School of Electrical and Electrical Engineering |
| Xuesen Leng | School of Electrical and Electrical Engineering |
| Tao Yang | School of Electrical and Electrical Engineering |

**A05-75**

Power Flow Entropy-Based Early Warning Analysis of Cascading Failures in Renewable Energy DC Sending-End Systems

| | |
|---|---|
| luo Lei | Electric Power Research Institute of State Grid Shaanxi Electric Power Co., Ltd |
| Nan Xia | State Grid Shaanxi Electric Power Reserach Institute |
| Qinglei Zhang | Electric Power Research Institute of State Grid Shaanxi Electric Power Co., Ltd |
| Jieyi Chen | North China Electric Power University |

**A05-78**

Analysis of DC Transmission Capability for Renewable Energy Sending-End Systems Under Voltage-Frequency Constraints

| | |
|---|---|
| Shirui Liu | North China Electric Power University |
| Zichang Han | North China Electric Power University |
| Tong Wang | North China Electric Power University |

**A05-79**

Large Firing-Angle Operation Control Method for Controllable Line-Commutated Converters


| | |
|---|---|
| Bo Zhang | Northeast Electric Power University |
| Yechun Xin | northeast electric power university |
| Tuo Wang | northeast electric power university |
| Yupeng He | northeast electric power university |
| Cheng Pang | Northeast Electric Power University |
| Ziheng Tian | Northeast Electric Power University |
| wanchao Yao | Northeast Electric Power University |


**A05-83**

Residual Soft Actor–Critic Control of a Composite DC Power Flow Controller With Steady-State Feedforward


| | |
|---|---|
| Jing Zhu | Huaneng Jiangsu Comprehensive Energy Service Co., Ltd. |
| Daqing Chen | Huaneng Jiangsu Comprehensive Energy Service Co., Ltd. |
| Chenhui Niu | Huaneng International Power Jiangsu Energy Development Co., Ltd. |
| Feng Li | Huaneng Jiangsu Comprehensive Energy Service Co., Ltd. |
| Jie Yin | Huaneng Jiangsu Comprehensive Energy Service Co., Ltd. |
| GaoYu Lin | Shanghai Jiao Tong University |

**A05-97**

Thermal-Field Simulation Design of a Test Transformer for a High-Voltage/High-Current Collaborative Loading Platform


| | |
|---|---|
| Yao Zhong | Guizhou Plum Blossom Mountain Frozen Climate Disasters and Equipment Safety, Guizhou Field Scientific Observation and Research Station |
| Lusong Zhang | Power Science Research Institute of Guizhou Power Grid Co. Ltd, |
| Lingmeng Fan | CSG Electric Power Research Institute Co., Ltd |
| Huangrong Zeng | Meihua Mountain Freezing Climate Disaster and Equipment Safety Observation and Research Station of Guizhou Province Guiyang, China |
| Jun Liu | Meihua Mountain Freezing Climate Disaster and Equipment Safety Observation and Research Station of Guizhou Province Guiyang, China |


**A05-101**

Thermal-Fluid Coupled Simulation of Internal Overheating Defects in GIS Equipment


| | |
|---|---|
| Chengmei Lin | Naval University of Engineering |
| Xuran Xu | North China Electric Power University |
| Yazhou Wang | Northwestern Polytechnical University |
| Hongwei Lei | Northeastern University |
| Likai Sun | Harbin Engineering University |


**A05-109**

Device-Level Electromagnetic Transient Modeling of a Dual Active Bridge DC–DC Converter With Detailed IGBT Representation


| | |
|---|---|
| Penglin Zhai | Chongqing University |
| Bing Yu | Electric Power Research Institute, State Grid Zhejiang Electric Power Co., Ltd. |
| Shi Jiang | State Grid Zhejiang Electric Power Co., Ltd. |
| Quanjun Guo | State Grid Zhejiang Electric Power Co., Ltd. |
| Moke Feng | Chonging University |

**A06-50**

Frequency-Constrained Co-Optimization of Dis-patch and Reserves in Coal-Fired CHP Systems


| | |
|---|---|
| Ziyun Wang | State Grid Corporation of China Northeast Branch |
| Yuqiao Wang | State Grid Corporation of China Northeast Branch |
| Wei Feng | State Grid Corporation of China Northeast Branch |
| Tianmeng Yang | State Grid Corporation of China Northeast Branch |
| Junwen Dai | State Grid Corporation of China Northeast Branch |


**A06-51**

Risk-Aware Coordinated Reactive Power Control for Post-Fault Voltage Recovery in Renewable Energy Plants


| | |
|---|---|
| Keming Wu | State Grid Corporation of China Northeast Branch |
| Zelong Chen | State Grid Corporation of China Northeast Branch |


**A06-55**

Optimal Allocation of Primary Frequency Regulation Reserve in the Receiving-End Power Grid Considering Unit Partitioning under DC Blocking


| | |
|---|---|
| Zhaohui Mao | State Grid ChongQing Electric Power Research Institute, Chongqing, China |
| mincai Yang | North China Electric Power University |
| Peng Xiong | State Grid ChongQing Electric Power Research Institute |
| Hanyi Du | State Grid Chongqing Electric Power Research Institute |

**A06-66**

Impedance Modeling of MMC Converter Stations in the SubSuper-Synchronous Frequency Band and Analysis of the Influencing Factors


| | |
|---|---|
| Zehao WANG | CSG Electric Power Research Institute Co., Ltd. |
| Junjue Feng | HVDC |
| Liu Yuekun | China Southern Power Grid Company, Ltd., Technology Research Center |
| Qingming Xin | State Key Laboratory of HVDC (Electric Power Research Institute, China Southern Power Grid) |
| Yiping Lu | China Southern Power Grid |
| Ziyin WANG | State Key Laboratory of HVDC Electric Power Research Institute, CSG |


**A06-100**

Configuration Optimization Method of Sending-End Energy Storage Considering Multi-Type Energy Base Output and DC Transmission Characteristics


| | |
|---|---|
| Jialing Liu | Electrical Power Research Institute CSG |
| Biyue Huang | Electric Power Research Institute, China Southern Power Grid Company, Ltd. |
| Qifan Yang | China Southern Power Grid Electric Power Research Institute |
| Qingming Xin | State Key Laboratory of HVDC (Electric Power Research Institute, China Southern Power Grid) |
| Zehao WANG | CSG Electric Power Research Institute Co., Ltd. |


**A07-14**

Fibre-Optic Sensing for Power Cable Monitoring: Dynamic Ampacity, PD Detection and Fault Precursor Analysis


| | |
|---|---|
| Jiaqi Li | Electric Power Research Institute, State Grid Liaoning Electric Power Co., Ltd |

**A07-30**

Multi-Source Alignment and Tiered-Fallback Channel Location for Operation-by-Operation Analysis of High-Voltage Circuit Breakers


| | |
|---|---|
| Yuyang Guan | China Southern Power Grid Co., Ltd. Ultra-High Voltage Transmission Company Tianshengqiao Bureau |
| Ruan JunXiao | CSG EHV Power Transmission Company |
| tianjian tan | EHV Power Transmission Company of China Southern Power Grid Co., Ltd. |
| Yunxiao Mo | Tian Shengqiao bureau， EHV， China Souther Powergrid |
| Haibin Song | Substation Management Office, Tianshengqiao Bureau, Extra High Voltage Transmission Company |


**A07-42**

Low-Carbon Optimal Scheduling of Stepped Carbon Trading Integrated Energy Based on Dual-Strategy Improved Grey Wolf Optimization Algorithm


| | |
|---|---|
| Jiahang Li | Shenyang University of Technology |
| Yun Teng | Shenyang University of Technology |
| Liangqian Liu | Shenyang University of Technology |
| Peng Zeng | Shenyang University of Technology |


**A07-43**

A Reserve Capacity Prediction Model of Micro-energy System Based on Two-stage Attention Mechanism and CNN-BiLSTM


| | |
|---|---|
| Peng Zeng | Shenyang University of Technology |
| Yun Teng | Shenyang University of Technology |
| Tengliang Xiao | Shenyang University of Technology |
| Jiahang Li | Shenyang University of Technology |


**A07-46**

Microgrid Operation Optimization Based on Grouping Adaptive Weight and Temporal memory Whale Optimization Algorithm


| | |
|---|---|
| Tengliang Xiao | Shenyang University of Technology |
| Fuxing An | Shenyang University of Technology |
| Jiahang Li | Shenyang University of Technology |
| qiuhao zhang | Shenyang University of Technology |

**A07-48**

A Dual-time Scale Reactive Power Optimization Method for Distribution Network Based on Multi-agent Reinforcement Learning


| | |
|---|---|
| Penghan Li | Northwest Branch Of State Grid Corporation Of China |
| Ning Guo | Northwest China Grid Company |
| ying wang | Northwest Branch Of State Grid Corporation Of China |
| Chao Huo | Northwest Branch Of State Grid Corporation Of China |
| Wenchao Zhang | Beijing Kedong Electric Power Control System Co., Ltd |
| yuwei che | Beijing Kedong Power Control System Co., Ltd. |
| Jinsheng Liu | Beijing Kedong Electric Power Control System Co., Ltd. |


**A07-49**

Quantum Genetic Algorithm-Based Optimal Configuration for Grid-Connected Energy Storage Systems with High Penetration of New Energy


| | |
|---|---|
| Penghan Li | Northwest Branch Of State Grid Corporation Of China |
| Chao Huo | Northwest Branch Of State Grid Corporation Of China |
| ying wang | Northwest Branch Of State Grid Corporation Of China |
| Shiyu Liu | Northwest Branch Of State Grid Corporation Of China |
| Ning Guo | Northwest China Grid Company |
| yuwei che | Beijing Kedong Power Control System Co., Ltd. |

**A07-52**

Design of Intelligent Alarm and Intelligent Disposal System for Smart Grid


| | |
|---|---|
| Weilong Tan | China Southern Power Grid Co., Ltd. Ultra High Voltage Transmission Company Baise Bureau |
| Qiang Chen | China Southern Power Grid Co., Ltd. Ultra High Voltage Transmission Company Baise Bureau |
| Liangliang Guan | China Southern Power Grid Co., Ltd. Ultra High Voltage Transmission Company Baise Bureau |
| Hengjian Liang | China Southern Power Grid Co., Ltd. Ultra High Voltage Transmission Company Baise Bureau |


**A07-92**

Power System Disturbance Region Delineation Using Large Language Model Reasoning Segmentation


| | |
|---|---|
| Fan Yang | Chongqing University |


**A07-99**

Multidimensional Dynamic Baseline Modeling and Anomaly Detection Method for Optical Measurement System Based on HVDC Centralized Control Cockpit


| | |
|---|---|
| Ning Yu | Guiyang Bureau CSG EHV |