

<p style="text-align: center;"> June 14th 8:30-9:45am Technical Session 1 </p>	<p> √ TS1: Converter Design & Integration <u>Chairs: XXXXX</u> </p> <p> 1633. An Optimal Design Method for MultiMode Stacked LLC Converter By Considering Both Circuit Parameters and Mode Boundaries Zhaoyi Wang, Pengfei Jiao, Ziang Li, Shuo Zhang, Haodi Zhang and Yuqi Wei </p> <p> 2724. Life-Cycle Environmental Impact Assessment of Infrastructure Integrated Multi-Port Power Converter Topologies Xie Kaiyu, Xue Lingxiao and Gao Bingjie </p> <p> 4098. Design and Thermal Optimization of a PCB Embedded SiC Half-Bridge Power Module Shaolei Wang, Wenjie Chen, Ziwei Peng, Shimin Lian, Jingye Shen, Tongrui Sun, Jingyi Wang and Xu Yang </p> <p> 4916. A Temperature-Dependent Behavior Model of High-Voltage SiC MOSFETs Considering Third-Quadrant Characteristics Xiaolu Zhang, Xu Cheng, Fan Zhang, Xuhui Song, Yong Chen, Ruixiong Yang, Yuze Zheng and Yukun Niu </p> <p> 5902. Design Rules for Physical Switch Selection in Power Electronics Topology Derivation Chenyao Xu, Jincheng Huang, Boyou Liu, Yu Zeng, Qingxiang Liu and Josep Pou </p>
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<p style="text-align: center;"> June 14th 8:30-9:45am Technical Session 2 </p>	<p> √ TS2: Protection Concept & Algorithm <u>Chairs: XXXXX</u> </p> <p> 824. Harmonizing Service-Continuity Requirements and Current/OS Zoning for System-Level LVDC Protection Design Fabian Benedikt Witt, Abdolhamid Farshadi, Timo Jelden, Geraint Chaffey, Merjin Van Deyck, Maik Hohmann, Christian Schulz and Michael Kurrat </p> <p> 3269. Selectivity Assessment of SSCB-Based Protection Scheme in Closed Bus-Tie DC Dynamic Positioning Vessels Fabrizio Sivori, Fabio D'Agostino, Federico Silvestro, Vladan Lazarevic and Pavel Purgat </p> <p> 7056. Zonal Equivalent Circuits for Fault Analysis in LVDC Grids Julian Valbuena Godoy, Simone Negri, Dejan Pejovski and Roberto Faranda </p> <p> 9370. Aviation DC Series Arc Fault Detection Method Based on Dual-Perspective Multidimensional Feature Fusion and Statistical Evidence Wei Ouyang, Zhenning Hou, Zefan Yang, Zhao Chen, Zhongzheng Zhou and Weilin Li </p> <p> 9624. Physics Informed Neural Networks for High Accuracy Fault Diagnosis in Energy Router Yixiong Qiu, Jianjun Ma, Shuli Wen and Miao Zhu </p>
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June 14th
8:30-9:45am
Technical Session
3

√ TS3: System Design & Modeling

Chairs: XXXXX

1294. Efficiency evaluation of LVDC and LVAC Architectures for EV Integration with Coordinated Charging

Hakim Azaioud, Ward Ysebie, Lieven Vandevelde and Jan Desmet

1408. A Reliable and Robust Efficient Hybrid System for DC Grid Applications

River Li, Xin Li and Manxin Chen

2263. Architecture Co-Design of Electric Propulsion and Protection Systems for Electric Aircraft Using Systems Engineering

Fanke Zeng, Fabian Witt and Michael Kurrat

4999. A Review of Key Technologies for DC Microgrids in Ships: Architectural Evolution and Frontiers in Energy Management

Jiaying Cheng, Liangxiu Wang, Yadong Xu, Jinhai Fu and Shaoyuan Wang

5019. Digital Twin Modeling for DC Microgrids

Xingzhao Lu, Fei Wang, Tianling Shi and Xiaokang Zhang

<p style="text-align: center;"> June 14th 10:00-11:15am Technical Session 4 </p>	<p>√ TS4: Converter Modulation & Control</p> <p><u>Chairs: XXXXX</u></p>
	<p>974. A Soft-Switching Single-Stage Isolated AC-DC Converter Using GaN Monolithic Integrated Bidirectional Switch</p> <p>Huitao Luo, Yao Huang and Jingxin Hu</p>
	<p>1577. Interleaved Coupled-Inductor Boost Converter for Regenerative DC Microgrid Loads</p> <p>Zhenfeng Qiu, Xu Yang, Renjing Song, Jiahe Ye, Zhihao Lou and Wenjie Chen</p>
	<p>2580. Hybrid Modulation Strategy for DAB Converters Based on Optimal Current Stress Trajectory</p> <p>Zixiang Cai, Zhiqing Yang, Helong Li, Shuang Zhao, Yang Bai, Hua Ni and Yibo Wu</p>
	<p>8245. Low-Harmonic Single-Phase to Three Phase PFC Strategy Using Half/Full Bridge Hybrid MMC With Diode Front End</p> <p>Yue Zhang, Jie Zhang, Sunqing Wang, Zhao Yu, Jimin Chen and Yaqian Zhang</p>
<p>8930. An Efficient High-ratio LLC Resonant Converter with 400V/800V Input Compatibility Based on Integrated Fractional-turn Planar Transformer</p> <p>Jiahe Ye, Xu Yang, Panming Li, Zhenfeng Qiu, Zhihao Lou and Wenjie Chen</p>	

June 14th
10:00-11:15am
Technical
Session 5

√ TS5: Protective Hardware

Chairs: XXXXX

2383. On the Applicability of IGCTs in LVDC and MVDC Protection Devices

Taosha Jiang, Xiaoguang Wei, Longlong Chen and Yutan Lu

7232. A Modular Bypass Snubber Solid-State Circuit Breaker Enabling Fast and Bipolar Fault Interruption in LVDC Grids

George Govaerts, Johan Driesen and Wilmar Martinez

8783. Piece-Wise State-Space Modeling of Active Discharge Protection Circuits for Solid-State Circuit Breakers in Vehicular Power Supply Systems

Bastian Eisenmann, Florian Koenen, Martin Baumann, Christoph Mayer and Marcelo Heldwein

9093. Design of a Novel Dual-Mode Γ -Source Circuit Breaker With Commanded Interruption Strategy

Shengfei Wang, Yixi Yang, Zhongzheng Zhou, Zhao Chen, Ninghao Wang and Weilin Li

9528. A Multi-Objective Based Design Optimisation Approach of Extraordinary Magnetoresistance Current Limiters

Nikolaos Fotias, Stefan Costea, Luiz Enger and Jeremy Letang

June 14th
10:00-11:15am
Technical
Session 6

√ TS6: System Stability

Chairs: XXXXX

1370. Passivity-Based DC-Side Impedance Analysis of Voltage Source Converters with Droop Controls

Yeji Jiang, Li Qi, Jinzhuo Bai and Zhiguo Hao

7466 A Novel Time Constant for the Quantitative Comparison of Usable Inertia in AC and DC Grids

Janik Bruck, Ömer Ekin, Richard Jumar, Friedrich Wiegel and Veit Hagenmeyer

7729. Adaptive Virtual Impedance Shaping for Stability Enhancement of DC Shipboard Microgrids with Multi-Pulse Loads

Xinjing Zhang, Niancheng Zhou, Luona Xu and Yongjie Luo

8637 Lyapunov-based DMPC for Voltage Restoration in DC Microgrids via Cooperative Reference Input

Fengzhan Zhao, Chengrui Ju, Yuntao Ju and Ting Liu

9628. A Comparison of Stability Assessment Approaches for Public DC Electric Distribution Grids

Maxime Lainé, Jing Dai, Marc Petit, Loïc Quéval, Xavier Yang, Ludovic Bertin, Amel Jullien, Sébastien Gouraud, Maria-Victoria Zamuner and Jean Pompée

June 14th
10:00-11:15am
Poster session I

Poster session I

207. Modeling and Mechanism Analysis of the Negative Impact of Potting Process on EMI Filter

Rui Cheng and Wenjie Chen

999 Design and Optimization of a High Efficiency and High-Power-Density Single-Stage On-Board Charger Based on Matrix Converter

Jingyi Wang, Wenjie Chen, Wenjie Du, Zhenfeng Qiu, Jingye Shen, Shaolei Wang, Shimin Lian, Ziwei Peng and Xu Yang

1103. Research on a Data-Driven Control Method for Dual Active Bridge Converters

志强 张

1131 Vector Control of Current Source Inverter for PMSM Based on Virtual Impedance

Junhao Bao, Jian Qi, Hao Ye, Yuyi Tian, Yong Yang, Mingdi Fan, Hanguang Peng, Yong Tang and Kai Ni

1173. Mechanism Analysis of High-Frequency Resonance in MMC Islanded Systems induced by Electromagnetic Current Transformer Secondary Cable

Lifang Xie, Yinghong Hu and Peng Cheng

1176. An Ultra-fast Hybrid DC Circuit Breaker Based on Natural Commutation of Arc Voltage

Gaojie Wang, Chen Zhao, Liu Li, Junhua Hu, Tianyuan Duan, Yu Xiao, Yifei Wu and Yi Wu

1510 Hybrid-Arm Multi-Port Active Bridge for DC Distribution System and Power Decoupling Algorithm

Zixuan Liu, Jianjun Ma, Miao Zhu and Pengfeng Lin

1541. Fault Location Scheme for DC Distribution Networks Utilizing Switching Characteristics of Dual Active Bridge Converters

Yifan Qin, Guobing Song, Jiayi Yang and Can Cui

1689. Instantaneous Energy Kurtosis-Based Protection for MMC-HVDC System Using VMD-HT

Le Liu, Qi Tong, Xuming Chen, Xiaoning Kang, Siyuan Liu, Jiapeng Li and Xiuda Ma

1750. Grounding Characteristics of Low Voltage Distribution Grids With Inverter-Interfaced Distributed Generation in Hybrid AC/DC Microgrids

Yonghua Chen, De'An Wang, Xiang Li, Jiatian Zhang, Tian Gao, Chuanxin Wen, Shaohua Liu, Yuan Li and Jingtao Zhao

2044. Design of a Zero-Bias Trans-Inductor Voltage Regulator with Integrated Magnetics

Jingye Shen, Xu Yang, Shimin Lian, Shaolei Wang, Ziwei Peng, Jingyi Wang, Tongrui Sun, Haohan Yang and Wenjie Chen

2069. The Deskew Fixture with Multi-interface Compatibility and Adjustable Speed

Jimin Chen, Renhe Xie, Sunqing Wang, Yue Zhang, Cheng Wang and Yu Huang

2101. Impact of DC Connection Location Differences on Regional Voltage Support Capability Based on a Dynamic Interactive Framework

Bing Zhang, Dengchao Shang, Wenbin Ci, Xin Li, Xiao Liu, Chunming Liu and Kaiqi Sun

2131 Loss Optimization Strategy for All-SiC Active Neutral-Point-Clamped Three Level Rectifier Utilizing Soft-Switching Transitions

Zicheng Xu, Guorun Yang, Pengfei Hou, Haichao Wang and Qinyuan Xie

2461. Comparative Environmental Life Cycle Assessment of LVDC and LVAC architectures for EV integration

YHakim Azaioud, Brecht Caers and Jan Desmet

2493. Current-Stress-Constrained Design of an EPS-Controlled Dual Active Bridge for Bidirectional DC Microgrid-Battery Interface

Zhihao Lou, Xu Yang, Zhenfeng Qiu, Jiahe Ye, Panming Li and Wenjie Chen

2498 Fault Diagnosis Method for DC Microgrids Based on Double-Ended Teager-CUSUM Fusion Criteria

Xiaoyi Zu, Hongyi Liu and Chaoyang Chen

2511. Development of an Evaluation Index System and Comprehensive Evaluation Methods for Offshore Wind Power Systems with Uncontrolled Rectifier Based Transmission

Xiahui Zhang, Li Zou, Jiahui Wu, Tiantian He, Lianhui Ning, Chenxuan Wang, Junyuan Zhang and Qingxin Wang

2761 Stabilization Enhancement Method for the Active Damper in Grid-Tied Renewable Energy Systems

Hui Huang, Xinghai Geng, Lin Wang, Jixin Yang and Zeng Liu

2834. A Flexible Current Sensor Utilizing Self biased Magnetoresistive Element for Powerline Monitoring Applications

Qihang Xu, Mengmeng Guan, Wei Su, Yuhang Yuan, Jian Liu and Zhongqiang Hu

3136. Control and Stability Analysis of All-DC Wind Power Generation Systems with Novel DC/DC Converter

Weijie Wu, Ziyue Yang, Rujia Fan, Chengcheng Cheng, Xianwei Wang and Zhengmin Zuo

3249 Energy Router for Multi-ASD DC Buses

Wei Jiang, Feng Zhou, Gaoteng Shen and Zhengyu Lin

3560. Distributed-Coil Coupler for Omnidirectional Misalignment-Tolerant UAV Wireless Power Transfer

Fengying Sun, Zhenjie Li and Yiqi Liu

3740. A Symbolic Regression-Based Decoupled Modulation for Single-Phase Three-Port DAB With Ripple Suppression

Lantian Shao, Wenjie Chen, Wenhui Pei, Haohan Yang and Xu Yang

4011. PCB-Embedded Liquid Cooling Technology for LLC-DCX with Integrated Planar

	<p>Transformer Panming Li, Xu Yang, Tongrui Sun, Zetu Gao, Jiahe Ye, Zhenfeng Qiu, Zhihao Lou and Wenjie Chen</p> <p>4039. An Empirical Study on the Integration and Operational Characteristics of PEDF Systems Yutong Li, Zhenshang Wang, Yuming Zhao and Jing Kang</p> <p>4123 Active Thermal Control for Active Neutral-Point-Clamped Converters With Hybrid Modulation Yilan Xue, Zhiyao Lu, Chang Li, Changyu Qin, Weilin Li, Yang Qi and Wenjie Liu</p> <p>4226. A Universal Transient DC Bias Suppression Strategy for Bidirectional Dual-Active-Bridge in Wide Voltage Range Wei Kang, Qiang Ren, Fei Xiao, Ruitian Wang, Xinsheng Zhang and Zhe'Ang Yang</p>
<p>June 14th 1:30-2:15pm Poster session II</p>	<p>Poster session II</p> <p>4505. Fast AC-Side Fault Identification and Decision Framework for Hybrid Transfer Switches in Hybrid AC–DC Microgrids Bin Zhao, Peifei Wu, Xiaoguang Wei, Taosha Jiang, Ruoxi Liu and Zexi Chen</p> <p>5133. A Comparative Study of Two DAB-type Converters for Photovoltaic System Yuhang Wei, Xu Yang, Wenjie Chen and Hanjie Qi</p> <p>5308. Adaptive Fault Interruption Coordination in</p>

DC Microgrids Based on Current Rise Rate

Moein Ghadrnan, Daniel Dsa, Satish Naik Banavath and Giovanni De Carne

5407. Minimum Current Stress Optimization Control Method for Dual Active Bridge DC-DC Converter under Dual Phase Shift Modulation

Chunyan Ma, Qing Duan, Guanglin Sha, Yunzhao Wu, Haokun Yuan, Baozhu Liu, Wenbin Ci and Xiao Liu

5693. A Black-Start Strategy for DRU-HVDC Systems for Onshore Renewable Energy Transmission

Haonan Li, Xu Yang, Min Wu, Hongyi Zhou, Jiaxuan Niu and Wenjie Chen

5890. Comparative Fault Performance of GFL and GFM Controls in MMC-MTDC Systems

Xiaowei Huang, Teng Liu, Yi Yuan, Dongxiao Cai, Weihuang Huang and Yilin Zhong

5987. Research on Bidirectional Active Balancing System for Large-Capacity

Qingxu Chen, Wanjun Lei, Jiaqi Zhao, Qibin Chen, Ke Luo and Bofeng Xu

6042. EMI Filtering Method Based on Dual Frequency Spread Spectrum and Dual Frequency Recombination Common Mode Noise Cancellation Waveform

Yong Mo, Wenjie Chen, Shimin Lian, Shengquan Lai, Ying Yang and Ziang Zhang

6474. Deep Reinforcement Learning-Based Control of a Single-Stage Multiport Inverter in

Islanded DC Microgrids via Imitation Learning and Online Training

Xian Zhou, Yu Zeng, Dehong Zhou, Zhige Yuan, Rongkui Mei, Peiran Zhang, Jianxiao Zou and Josep Pou

6569. Research on Adaptive Control of High Power Degaussing Power Supplies for Deeply Saturated Loads

Wenhui Pei, Xu Yang, Lantian Shao, Haohan Yang and Wenjie Chen

6629. High frequency pulse characteristic detection and modeling of series arc fault induced by poor terminal contact based on magnetohydrodynamics

Haidong Yu, Yang Liu, Ying Wu, Chenghan Zhou and Bangwei He

6665. Multiphase Forward Pulse Power Supply System Featuring Voltage and Frequency Multiplication

Guilin Wang, Longzhi Xu, Jie Li, Yao Wang and Yigeng Huangfu

6878. Design of A Compact Gate Driver Power Supply for Medium-Voltage SiC MOSFETs with Low Coupling Capacitance

Xuhui Song, Jianfu Chen, Xiaolu Zhang, Xingyu Pei, Hongyuan Wu, Yukun Niu, Yuze Zheng and Fan Zhang

7229. An Optimal Trajectory and Thermal Balancing Control Strategy for Full Bridge LCC Resonant Converters with Wide Voltage Range

Operation

Haodi Zhang, Ziang Li, Shuo Zhang, Pengfei Jiao, Zhaoyi Wang and Yuqi Wei

7949. A MUX-based Active-Clamped Flyback Converter for Infrastructure-Integrated Power Delivery

Bingjie Gao, Yanzi Cui and Lingxiao Xue

8069. Research on Fault Characteristics and Control Technology of High-Voltage Large-Capacity AC/DC Converters

Anmin Tian, Shenglun Zhuang, Mei Yang, Wenxuan Xu, Yichen Shao and Xinyi Shi

8346. Design and Optimization of a Fractional-Flux Transformer for LLC Resonant Converters

Tongrui Sun, Wenjie Chen, Shaolei Wang, Wei Zhou, Ziwei Peng, Shimin Lian, Haohan Yang, Jingye Shen and Xu Yang

8464. Investigation of Voltage Imbalance in Series-Connected SiC MOSFETs and the Mitigation Method

Longzhi Xu, Lei Tao, Yigeng Huangfu and Yao Wang

8487. An Intelligent Fault Diagnosis Method for DC Microgrids Based on Local and Global Feature Fusion

Can Cui, Guobing Song, Yifan Qin and Kangning Ma

8500. Spatiotemporal Ionization Aerosol Sensing for Early Thermal Runaway Warning and Protection in DC Microgrid Battery Energy Storage Systems

Saif Aldeen Saad Obayes Al Kadhim, Yong Zhang, Waqas Muhammad and Yinghui Sun

8643. Design of GaN HEMT ANPC Power Module with Low Parasitic Inductances

Yao Xiao, Bingyang Li, Daoxin Tong, Zaojun Ma, Fan Zhang, Wenjie Chen and Xu Yang

8976. A Protection Methodology for Multiport Hybrid DC Circuit Breakers: Fault Detection, Port Identification, and Interruption Control

Daixin Chen, Yannal Nawafleh and Xiaoqing Song

9164. Modeling of AI Data Centers with Electro-Thermal Coupling & Coordinated Hybrid Energy Storages

Jueliang Guo, Yanming Zeng, Li Lisa Qi, Xiufang Liu and Yanan Li

9361. Design for Forensics in Battery Energy Storage Systems: Bridging the Data Gap for Incident Investigation

Yike Hu, Nareg Sinenian and Ashish Arora

9589. Three-Phase Resonant CLLC Current Source Converter for Low-Voltage High Current Applications

Jie Li, Guilin Wang, Yuhua Du, Yigeng Huangfu and Yao Wang

9639. High-Frequency Simulation Modeling and Experimental Verification of a Hybrid Common-Mode EMI Filter Based on Genetic Algorithm

Shengquan Lai, Wenjie Chen, Shimin Lian and Yong Mo

**9999. Dynamic Response and Disturbance
Analysis of Multi-Area Interconnected Power
Systems with Back-to-Back MMCs**

Jiahao Lin, Yishen Wang, Kaixin Zhang and Xinzhou
Dong

**June 14th
2:30-3:45pm
Technical
Session 7**

√ TS7: Converter Operation & Protection

Chairs: XXXXX

1209. Reconfigurable DC-DC Converter with Ultra-Wide Gain and Voltage/Current Stress Management

Hua Ni, Yang Shen, Zhiqing Yang, Helong Li, Xianbin Qi and Feifei Kuang

6254. A 22-kV SiC Super-Cascode Switch With Turn-Off Capability and Controlled Voltage Distribution

Ning Yan, Timothy Thacker, Rolando Burgos and Dong Dong

6723. A Novel IBDC topology and Its Quasi Zero Switching-Loss Operation Strategy for DC Microgrid

Zhi Zhou, Qi Guo, Chuanchuan Hou, Ping Liu, Chunming Tu and Fan Xiao

8306 On the Implementation of Burst Mode in Modular Active Cell Controlled Energy Routers

Raffael Schwanninger, Martin Lindner, Xiaotian Yang, Niklas Stöcklein and Martin Maerz

9544. Implementation of Modular Active Cell (MAC) Control on Multi-Port Home Energy Routers

Xiaotian Yang, Niklas Stöcklein, Raffael Schwanninger, Bernd Wunder, Vincent Lorentz and Martin Maerz

June 14th
2:30-3:45pm
Technical
Session 8

√ TS8: Electromagnetic Compatibility

Chairs: XXXXX

813. A Method to Characterize the EMI of bidirectional DC-DC converter by Network Parameter Matrixes

Yuxuan Chen, Wenjie Chen, Zhenyu Wang, Dong Jiang and Wenjie Du

1946. Characterisation of Emissions and Impedances up to 150 kHz of Power Electronics-Based DC Loads for Low Voltage DC Grids

Ondrej Krpciar, Robert Stiegler and Jan Meyer

3120. A Virtual Impedance Active EMI Filter Based on a Negative Impedance Circuit

Shimin Lian, Wenjie Chen, Jingye Shen, Shaolei Wang, Ziwei Peng, Tongrui Sun, Jingyi Wang and Xu Yang

4096. An Enhanced Conducted EMI Noise Prediction Method for Vienna PFC-LLC Converter

Rui Cheng and Wenjie Chen

6920. CM EMI Filter Design with High Frequency Performance Improvement

Genzhai Peng, Yu Zhang, Yangmin Xuan and Chenhui Zhang

**June 14th
2:30-3:45pm
Technical
Session 9**

√ TS9: System Operation I

Chairs: XXXXX

2322. Technical Standards for Grid-Forming Control of MVDC Converter Stations in Urban Distribution Networks

Hao Yan, Mingyang Li, Wenbin Ci, Xin Li, Xiao Liu, Chunming Liu and Kaiqi Sun

3097. Control Methodology in Hybrid Microgrid

Yi-Kuan Ke, Kuei-Yen Lee and Hong-Jhih Liu

3642. Control Strategy for a Multifunctional UPS in Hybrid AC/DC Systems

Qian Li and Mario Schweizer

7948. Grid-Forming Characterization in DC Microgrids

Jovan Krajacic, Ognjen Stanojev, Mario Schweizer, Orcun Karaca, Gabriela Hug and Vladan Lazarević

9918. Droop-Based Adaptive PI Tuning for Secondary Control in Industrial DC Microgrids

Andrea Barbui and Dejan Pejovski

**June 14th
4:00-5:15pm
Technical
Session 10**

√ TS10: Energy Storage in DC

Chairs: XXXXX

985. Low Temperature Preheating and Charging for Lithium-Ion Batteries through Dual Active Bridge Converter

Yuang Yang, Hongyou Zhong, Wenjie Liu and Yang Qi

3567. A Single-Stage Modular Multilevel Reconfigurable Battery for Both AC and DC Microgrids

Zhige Yuan, Yu Zeng, Amer Ghias, Salvador Ceballos and Josep Pou

3980. SOC Estimation of Lithium Batteries Based on Electrochemical Impedance Spectroscopy and Fractional Order Model

Qingxu Chen, Wanjun Lei, Jiaqi Zhao, Xi Wei, Ke Luo and Bofeng Xu

7150. Feature-Enhanced Attentional and Temporal Physics-Informed Neural Network for LFP Battery Capacity Estimation in DC Microgrids

Beier Huang, Yu Zeng, Dehong Zhou, Gong Cheng, Ziheng Xiao, Xiaozhou Han, Jianxiao Zou and Josep Pou

8159. Not too big, not too small... Towards Minimum Battery Sizing for Capacity Limited DC Microgrids

Alvin Tan, Daniel Gerber and Prabal Dutta

√ TS11: Test & Simulation Technologies

Chairs: XXXXX

1493. A Novel Testing Method for Solid-State Current Limiters Based on the Constant DC Source

Kai Tu, Jiaming Kang, Li Liu, Junhua Hu, Tianyuan Duan, Tianpei Shan, Yu Xiao and Yifei Wu

5253. Low-Cost Embedded Hardware-in-the Loop Validation of Bidirectional Converter Control in Hybrid Microgrids

Keying Li, Shiqi Wang and Khoa Dang Hoang

6045. Concept and Design of a Lab-Based Bipolar 180 kW DC Microgrid for Experimental Validation

Brecht Caers, Hakim Azaioud, Ward Ysebie, Emile Clarisse and Jan Desmet

6232. Progress in Lunar DC Microgrid using Hardware-in-the-Loop Technique

Li Lu, Ming Zhang, Chengxiong Tang, Yaodong Liu and Hong Du

6486. Safe Storage at Home: A Co-Simulation Approach for Short Circuit Current Characterisation

Daniel-Catalin Mitroi, Grigore Stamatescu, Radu Plamanescu and Mihaela Albu

**June 14th
4:00-5:15pm
Technical
Session 11**

√ TS12: System Operation II

Chairs: XXXXX

**June 14th
4:00-5:15pm
Technical
Session 12**

444. Centralized Control in DC Microgrid: Controller Hardware in the Loop Evaluation

Mehnaz Khan, Indra Narayana Sandilya Bhogaraju,
Aniket Joshi, James Stoupis and Dejan Pejovski

1008. Integrator-Aided Minimization of Capacitor- Voltage-Ripple Disparity in Cascaded H-Bridge Energy Systems via Reactive Power Distribution

Qingxiang Liu, Shriya Shukla, Gaowen Liang, Ezequiel
Rodriguez, Yu Zeng, Salvador Ceballos, Glen Farivar
and Josep Pou

2679. Exploring Converter Control Duality in Microgrids: AC Grid-Forming vs DC Droop Control

Jovan Krajacic, Ognjen Stanojev, Mario Schweizer,
Orcun Karaca, Gabriela Hug and Vladan Lazarević

4511. Enhanced Energy Management Strategy for Electric Propulsion Aircraft with High-Power Pulsed Loads

Qidong Wen, Deliang Liang and Yanting Xue

7839. DC-Side Grid-Forming-Based Control Coordination in a Hybrid DC/AC Microgrid for AI Data Centers

Shiqi Wang, Keying Li and Khoa Dang Hoang