IEEE DCTS 3rd 2026

IEEE

IEEE PES Power & Energy Society

中国南方电网 CHINA SOUTHERN POWER GRID 超高压输电公司

The 3rd International Conference on DC Technologies and Systems (DCTS 2026)

会议手册
PROGRAM

Conference APP

Live Photos

Guider:
IEEE
IEEE PES

Organizer:
Chongqing University
IEEE Chongqing Section
IEEE PES Chongqing Chapter
IEEE PES China Satellite Technical Committee - DC Power System

Co-Operator:
China Southern Power Grid Co., Ltd. EHV Transmission Company

Nov. 20 – Nov. 22, 2026

Chongqing · China

热烈欢迎各位嘉宾和代表

参加2026年IEEE直流技术与系统国际会议！

Welcome all guests and representatives to attend

The 3rd IEEE International Conference on

DC Technology and System (DCTS 2026)

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一、2026年IEEE直流技术与系统国际会议日程一览表

时间 Time / 地点 Place		重庆岱江花园饭店·大堂（酒店二楼）/Lobby of Chongqing DAIJIANG Garden Hotel(2nd Floor of the Hotel)								
11月20日	14:00-22:00	参会代表报到、领取资料/Registration								
	18:00-20:30	主楼2楼 银杏厅 晚餐（自助餐）/Dinner (Buffet)								
时间 Time / 地点 Place		重庆岱江花园饭店 主会场 金殿多功能宴会厅（2楼） Main Venue of Golden Palace Multi-Function Hall	分会场一 香樟厅（1楼） Session 1 (Camphor tree Hall, 1st Floor)	分会场二 玉兰厅（1楼） Session 2 (Magnolia Hall, 1st Floor)	分会场三 梧桐厅（1楼） Session 3 (Chinese parasol Hall, 1st Floor)	分会场四 胡杨厅（2楼） Session 4 (Diversiform-leaved poplar, 2nd Floor)	分会场五 冬青厅（1楼） Session 5 (Holly Hall, 1st Floor)	分会场六 花园厅（副楼 2楼） Session 6 (Wing Building Garden Hall, 2nd Floor)	分会场七 紫荆厅（2楼） Session 7 (Cercis Chinensis Hall, 2nd Floor)	
11月21日	9:00-9:20	嘉宾致辞 Welcome Speech								
	9:20-9:30	论文表彰 Paper Commendation								
	9:30-12:00	特邀主旨报告 Keynote Speech								
	12:00-14:00	主楼2楼 银杏厅 午餐（自助餐）/Lunch (Buffet)								
	14:00-17:00	特邀主旨报告 Keynote Speech								
	17:00-17:30								IEEE PES直流电力系统技术委员会2026年执委会工作会议(内部会议) IEEE PES China Satellite Technical Committee - DC Power System 2026 Executive Committee Working Meeting	
	17:30-19:30	主楼2楼 银杏厅 晚餐（自助餐）/Dinner (Buffet)								
	19:00-20:00		直流输变电设备技术分委会 （内部会议） DC Transmission and Transformation Equipment Subcommittee		直流输电控制保护技术分委会 （内部会议） DC Transmission Control & Protection Subcommittee	直流配电网技术分委会 （内部会议） DC Distribution Network Subcommittee	直流输配电系统仿真技术分委会 （内部会议） DC Transmission and Distribution System Simulation Subcommittee		直流系统规划与设计分委会 （内部会议） DC System Planning & Design Subcommittee	
时间 Time / 地点 Place			分论坛一：直流输变电设备技术（一） 香樟厅（1楼） Sub-forum 1: DC power transmission and transformation equipment technology (Camphor tree Hall, 1st Floor)	分论坛二：直流输变电设备技术（二） 玉兰厅（1楼） Sub-forum 2: DC power transmission and transformation equipment technology (Magnolia Hall, 1st Floor)	分论坛三：直流输电控制保护技术 梧桐厅（1楼） Sub-forum 3: DC transmission control and protection technology (Chinese parasol Hall, 1st Floor)	分论坛四：直流配电网技术(含低频输电技术) 胡杨厅（2楼） Sub-forum 4:DC distribution network technology (including low-frequency transmission technology) (Diversiform-leaved poplar, 2nd Floor)	分论坛五：直流输配电系统仿真技术 冬青厅（1楼） Sub-forum 5:DC transmission and distribution system simulation technology (Holly Hall, 1st Floor)	分论坛六:低压直流技术 花园厅（副楼 2楼） Sub-forum 6:Low Voltage DC Technology (Wing Building Garden Hall, 2nd Floor)	分论坛七：直流系统规划与设计 紫荆厅（2楼） Sub-forum 7:DC system planning and design (Cercis Chinensis Hall, 2nd Floor)	
11月22日	09:00-11:00		特邀专题报告 Invited Special Topic Report	特邀专题报告 Invited Special Topic Report	特邀专题报告 Invited Special Topic Report	特邀专题报告 Invited Special Topic Report	特邀专题报告 Invited Special Topic Report	特邀专题报告 Invited Special Topic Report	特邀专题报告 Invited Special Topic Report	会议论文海报展示Conference Paper Poster Session
	11:00-11:10	茶歇/Tea Break								
	11:10-12:00		论文宣读 Paper Presentation		论文宣读 Paper Presentation	论文宣读 Paper Presentation	论文宣读 Paper Presentation	论文宣读 Paper Presentation	论文宣读 Paper Presentation	
	12:00-14:00	副楼1楼 芭罗莎厅 午餐（自助餐）/Lunch (Buffet)								

会议报到/Meeting Registration

2026年11月20日星期五/Friday

重庆岱江花园饭店大堂（酒店二层）

Lobby of Chongqing DAIJIANG Garden Hotel (2nd Floor of the Hotel)

日期 Date	时段 Time	内容 Content	主持人 Host
11月20日	14:00-22:00	代表报到、领取资料 Representatives register and get information	/

主论坛/Main Forum

2026年11月21日星期六/Saturday

金殿多功能宴会厅（2楼）

Main Venue of Golden Palace Multi-Function Hall, 2nd Floor

日期 Date	时段 Time	内容 Content	主持人 Host
11月21日 上午 morning	09:00-09:05	主持人开场，嘉宾介绍 Host opening, Guest Introduction	胡建林 重庆大学
	09:05-09:10	致欢迎词 重庆大学副校长，李剑 Welcome Speech , Jian Li, serves as Vice President of Chongqing University	
	09:10-09:15	致辞 南网超高压公司副总经理，祝谦 Welcome Speech, Qian Zhu, Deputy General Manager of China Southern Power Grid	
	09:15-09:20	致辞 IEEE PES主席，钟志勇 Welcome Speech, Chi-Yung Chung, IEEE PES Chair	
	09:20-09:30	表彰2026年IEEE直流技术与系统国际会议论文奖 Recognizing the 2026 3rd IEEE International Conference on DC Technology and Systems Paper Award	
	09:30-10:00	**主旨报告：高稳定性天然酯绝缘油研制关键技术及产业化应用** Key Technologies for Development of High-Stability Natural Ester Insulating Oil and Its Industrial Application **报 告 人：**重庆大学副校长，李剑	
	10:00-10:30	合影及茶歇	
	10:30-11:00	**主旨报告：数据中心的挑战：为AI工厂供能** Data Center Challenges: Powering “the AI Factories” **报 告 人：**IEEE副主席、美国国家工程院院士，谭方东	

	11:00-11:30	**主旨报告：从“受端”到“枢纽”——重庆能源电力保供与转型的实践和展望** From a Power-Receiving City to an Energy Hub: Chongqing’s Experience and Outlook on Power Supply Security and Energy Transition **报 告 人：**国网重庆市公司副总经理，秦帅	
	11:30-12:00	**主旨报告：藏粤直流工程简介及融合创新体系** Introduction to the Zang-Yue DC Project and its Integrated Innovation System **报 告 人：**广东藏粤直流电力运营有限公司副总经理，程炯	
	12:00-14:00	**午餐（自助餐）**	/
11月21日 下午 afternoon	14:00-14:30	**主旨报告：智能数据中心供电接网要求与创新** Innovations Associated with AIDC Interconnection **报 告 人：**CIGRE英国技术委员会主席/苏格兰皇家学会院士，Jian Yu	王远游 南网超高压公司
	14:30-15:00	**主旨报告：系统支撑型直流输电技术思考** Reflections on System-Supporting HVDC Transmission Technology **报 告 人：**国家电网有限公司直流技术中心技术部主任，张国华	
	15:00-15:30	茶歇	
	15:30-16:00	**主旨报告：面向100%新能源送出的新型直流换流装备** Novel DC Converter for 100% Renewable Energy Transmission **报 告 人：**清华大学电机系党委副书记、直流研究中心主任余占清	
	16:00-16:30	**主旨报告：**800V DC Power and Cooling Solutions for Data Centers **报 告 人：**台达电子新兴市场事业群总经理，董慨	
	16:30-17:00	**主旨报告：直流控制保护系统改造模式探讨及工程实践** Exploration of Retrofit Strategies for HVDC Control and Protection Systems and Engineering Practice **报 告 人：**南网超高压公司领军技术专家，陈潜	
	17:30-19:30	**晚餐（自助餐）**	

IEEE PES直流电力系统技术委员会（中国）及其分委会内部会议 Internal Meeting of IEEE PES China Satellite Technical Committee - DC Power System and its Subcommittee 2026年11月21日星期六晚上/Saturday Night			
日期 Date	**时段 Time**	**内容 Content**	**主持人 Host**
11月21日 晚上 night	17:00-17:30	IEEE PES直流电力系统技术委员会（中国）（IEEE PES China Satellite Technical Committee - DC Power System）2026年执委会工作会议（内部会议） 地点：紫荆厅（2楼） (Cercis Chinensis Hall, 2nd Floor)	张怿宁 秘书长
	19:00-20:00	直流输变电设备技术分委会（DC Transmission and Transformation Equipment Subcommittee）（内部会议） 地点：香樟厅（1楼） (Camphor tree Hall, 1st Floor)	邓军
		直流输电控制保护技术分委会（DC Transmission Control & Protection Subcommittee）（内部会议） 地点：梧桐厅（1楼） (Chinese parasol Hall, 1st Floor)	陈潜
		直流配电网技术分委会（DC Distribution Network Subcommittee）（内部会议） 地点：胡杨厅（2楼） (Diversiform-leaved poplar, 2nd Floor)	行登江
		直流输配电系统仿真技术分委会（DC Transmission and Distribution System Simulation Subcommittee）（内部会议） 地点：冬青厅（1楼） (Holly Hall, 1st Floor)	陈钦磊
		直流系统规划与设计分委会会议（DC System Planning & Design Subcommittee）（内部会议） 地点：紫荆厅（2楼） (Cercis Chinensis Hall, 2nd Floor)	邱伟

专题研讨分论坛/Special Topic Discussion Forum 2026年11月22日星期日上午/Sunday Morning			
日期 Date	**时段 Time**	**内容 Content**	**主持人 Host**
分论坛一:直流输变电设备技术（一） Sub-forum 1: DC power transmission and transformation equipment technology 地点：香樟厅（1楼）(Camphor tree Hall, 1st Floor)			
11月22日 上午 morning	09:00-11:00	**主题报告：**±800千伏直流高速开关关键技术 Key Technologies for ±800 kV DC High-Speed Switches **报 告 人：**超高压输电公司电力科研院，杨旭	刘青松
		主题报告：特高压直流设备状态感知与缺陷处置关键技术 Key Technologies for Condition Perception and Defect Disposal of UHVDC Equipment **报 告 人：**南方电网超高压输电公司电力科研院，邓军	
		主题报告：基于NV色心量子传感器的局部放电检测技术 Partial discharge detection technology based on NV color center quantum sensors **报 告 人：**重庆大学，李顺波	
		主题报告：线圈类设备绕组故障数字化诊断新技术研究 Research on New Digital Diagnosis Technology for Winding Faults of Coil-Type Equipment **报 告 人：**西南大学，赵仲勇	
		主题报告：AI赋能的电力装备热/机械状态反演技术研究 AI-Enabled Inversion of Thermal and Mechanical States for Power Equipment **报 告 人：**上海交通大学，张智昊	
		主题报告：特高压柔性直流桥臂电抗器设计关键技术及工程应用 Design Technologies and Engineering Applications of Bridge-Arm Reactors for ±800 kV UHV VSC-HVDC **报 告 人：**南方电网超高压输电公司电力科研院，刘青松	
	11:00-11:10	**茶 歇 / Tea Break**	
	11:10-12:00	**论文宣读：**Research on the detection method of impurity particles in transformer oil based on microfluidic imaging technology **论文编号：**19	
		论文宣读：Pressure-Dependent Responses of a Multi-Material MEMS Gas Sensor Array to SO2 and H2S in SF6 **论文编号：**57	

		论文宣读： Lightning Impulse Breakdown and Interfacial Molecular Mechanisms of Hydrocarbon Oil－Paper Composite Dielectrics **论文编号：** 58	
		论文宣读： Measurement of the Magnetic Properties of Silicon Steel Sheets under DC Bias **论文编号：** 80	
		论文宣读： Phase-Change Microcapsule-Integrated Radiative Cooling Materials for Passive Thermal Management of Electrical Equipment **论文编号：** 104	

分论坛二:直流输变电设备技术（二） Sub-forum 2: DC power transmission and transformation equipment technology 地点：玉兰厅（1楼）(Magnolia Hall, 1st Floor)			
11月22日 上午 morning	09:00-11:00	**主题报告：**特大容量柔直变压器设计与研制 Design and Development of Ultra-Large Capacity Transformers for Flexible DC Transmission **报 告 人：**CEE山东电力设备有限公司，孙优良	刘小虎
		主题报告：特高压直流工程换流变压器振动特性研究 Research on Vibration Characteristics of Converter Transformers in UHVDC Projects **报 告 人：**西安交通大学，张凡	
		主题报告：面向高压直流气体绝缘输电装备的先进无机电介质材料研究 Research on Advanced Inorganic Dielectrics for HVDC Gas-Insulated Apparatus **报 告 人：**华北电力大学，杨霄	
		主题报告：常规直流与柔性直流技术路线及关键设备比对 Comparison of Technical Routes and Key Equipment between LCC-HVDC and VSC-HVDC **报 告 人：**国网浙江省电力有限公司电力科学研究院，于兵	
		主题报告：微胶囊化膨胀绝缘修复剂/环氧体系的抗收缩自修复机理研究 Study on the Anti-Shrinkage Self-Healing Mechanism of Microencapsulated Expansive Insulating Healing Agent/Epoxy Systems **报 告 人：**重庆电子科技职业大学，张艳芳	
		主题报告：非侵入式电参量感知方法及其工程应用 Non-Intrusive Sensing of Electrical Parameters: Methods and Engineering Applications **报 告 人：**重庆大学电气工程学院，刘小虎	
	11:00-11:10	**茶 歇 / Tea Break**	

分论坛三:直流输电控制保护技术 **Sub-forum 3: DC Transmission Control and Protection Technology** **地点：**梧桐厅（1楼）(Chinese parasol Hall, 1st Floor)			
11月22日 上午 morning	09:00-11:00	**主题报告：**大规模海上风电柔性直流送出控制关键技术与工程应用 Key Technologies and Engineering Application of Control Strategies for Large-Scale Offshore Wind Power Integration via VSC-HVDC Systems **报 告 人：**南方电网科学研究院有限责任公司/浙江大学，彭发喜	黄义隆/ 刘俊良
		主题报告：昆柳龙直流架空线故障自清除关键技术与工程实践 Key Technologies and Engineering Practice for Fault Self-Clearing of the Kunliulong DC Overhead Transmission Line **报 告 人：**南方电网科学研究院有限责任公司，李桂源	
		主题报告：电力电子化设备替代交流滤波器研究 Research on power electronic equipment replacing AC filter **报 告 人：**南网超高压公司电力科研院，张翕	
		主题报告：高压直流控保设备风险预警及故障分析技术研究 Research on Risk Early Warning and Fault Analysis Technology for HVDC Control and Protection Equipment **报 告 人：**超高压输电公司电力科研院，洪权炜	
	11:00-11:10	**茶 歇 / Tea Break**	
	11:10-12:00	**论文宣读：**Higher-Order Droop Control for DC Voltage Regulation and Power Sharing in Multiterminal MMC-HVDC Grids **论文编号：**15	
		论文宣读：Design of a Laser Driver Circuit for Light-Triggered Thyristors Based on a Pre-Established Constant-Current Source and a High-Speed Switch **论文编号：**59	
		论文宣读：A Multi-Agent Emergency Disposal System for Intelligent Operation and Maintenance of UHVDC Converter Stations: Architecture, Deterministic Criteria and Engineering Validation **论文编号：**65	
		论文宣读：Adaptive Droop Control for Grid-Forming Wind Farms Connected via MMC-HVDC Under Onshore AC Faults **论文编号：**102	

		论文宣读：Negative-Sequence Current of MMC-HVDC Impact on Non-Fault-Phase Overvoltage and Suppression Strategy for Offshore Wind **论文编号：**106	

分论坛四:直流配电网技术(含低频输电技术) Sub-forum 4: DC Power Distribution Network Technology (including Low-Frequency Transmission Technology) 地点：胡杨厅（2楼）(Diversiform-leaved poplar, 2nd Floor)			
11月22日 上午 morning	09:00-11:00	**主题报告：**特高压直流测量关键技术、试验平台及工程应用 Key Technologies, Test Platforms and Engineering Applications for Ultra High Voltage Direct Current Measurement **报 告 人：**云南电网有限责任公司，沈鑫	行登江/ 李再男
		主题报告：直流微电网控制方法与保护策略探讨及应用 Research on Control Methods and Protection Strategies for DC Microgrids and Applications **报 告 人：**上海大阈信息技术有限公司，侯院军	
		主题报告：三级型固态变压器分层级保护 Hierarchical Protection for Three-Stage Solid-State Transformers **报 告 人：**重庆大学，周念成	
		主题报告：多端柔性直流电网故障自适应限流关键技术研究 Research on Key Technologies for Fault-Adaptive Current Limiting in Multi-Terminal VSC-HVDC Grids **报 告 人：**重庆大学，李再男	
	11:00-11:10	**茶 歇 / Tea Break**	
	11:10-12:00	**论文宣读：**Economic Analysis of the AC/DC Hybrid Distribution Networks Under Different Energy Storage Allocation Ratios **论文编号：**61	
		论文宣读：Propagation of AC-Side Nonideal Waveforms Through Bidirectional AC/DC Converters and Its Impact on DC Energy Metering **论文编号：**69	
		论文宣读：Multi-Operating-Point Harmonic Coupling Modeling of Grid-Forming Converters via Parameter Interpolation **论文编号：**76	
		论文宣读：Rapid Estimation and Analysis of Solid-State Transformer Voltage Support Capability in Distribution System **论文编号：**95	
		论文宣读：Harmonic Emission and Propagation in Distribution Networks with Solid-State Transformers **论文编号：**96	

分论坛五:直流输配电系统仿真技术 **Sub-forum 5: DC Transmission and Distribution System Simulation Technology** **地点：**冬青厅（1楼）(Holly Hall, 1st Floor)			
11月22日 上午 morning	09:00-11:00	**主题报告：**LCC-HVDC换流器运行监测与保护技术 Operation status Monitoring and protection technology of LCC-HVDC Converter **报 告 人：**华南理工大学，李晓华	陈钦磊/ 冯谟可
		主题报告：新型可控换相换流器交流故障特性分析及功率支撑控制策略 AC Fault Characteristic Analysis and Power Support Control Strategy of Novel Controllable Line-Commutated Converter **报 告 人：**东北电力大学，王拓	
		主题报告：固态变压器高精度电磁暂态建模与高效仿真方法研究 Research on High-precision electromagnetic transient modeling and high-efficiency simulation method of solid-state transformer **报 告 人：**重庆大学，冯谟可	
		主题报告：超大城市电网柔性多端互联工程仿真试验技术 Simulation Testing Technology for VSC-Based Multi-Terminal Flexible Interconnection Projects in Megacity Power Grids **报 告 人：**南方电网科学研究院有限责任公司，刘志江	
		主题报告：含多元构网型设备的区域电网系统级仿真测试技术探讨 Exploration of System-Level Simulation and Testing Technology for Regional Power Grids Containing Diverse Grid-Forming Devices **报 告 人：**北京四方继保工程技术有限公司，翟凯	
	11:00-11:10	**茶 歇 / Tea Break**	
	11:10-12:00	**论文宣读：**Opening Angle Based Analysis of Ferroresonance in a 500 kV GIS Voltage Transformer **论文编号：**16	
		论文宣读：Parallel Simulation and Optimized Scheme for Stochastic Electromagnetic Transients of DC Distribution System **论文编号：**20	
		论文宣读：Electromechanical Modeling of Contact Bounce and Analysis of Erosion-Induced Degradation in Vacuum On-Load Tap Changers **论文编号：**35	

		论文宣读：Research on a Method for Rapid Generation of Transformer Temperature Fields **论文编号：**64	
		论文宣读：A Modular Multirate Electromagnetic Transient Simulation Method for Cascaded Solid-State Transformers **论文编号：**108	

分论坛六:低压直流技术 Sub-forum 6: Low-Voltage Direct-Current (LVDC) Technology 地点：花园厅（副楼 2楼）(Wing Building Garden Hall, 2nd Floor)			
11月22日 上午 morning	09:00-11:00	**主题报告：**从交流到直流：稳定判据的迁移与失效 From AC to DC: Transferability and Limits of Stability Criteria **报 告 人：**上海电力大学，赵晋斌	孙凯祺/ 姚志刚
		主题报告：光储直柔工程实践与柔性调节技术研究 PEDF Engineering Practice and Flexible Regulation Technology **报 告 人：**深圳市建筑科学研究院股份有限公司，孙冬梅	
		主题报告：面向新型电力系统的电力电子变压器：技术演进、应用场景与发展趋势 Power Electronic Transformers for the New Power System: Technological Evolution, Application Scenarios and Development Trends **报 告 人：**香港应用科技研究院，杨超	
		主题报告：光储直柔及零碳园区先进能源系统 Advanced Energy Systems for Zero-Carbon Parks and PEDF **报 告 人：**格力电器，赵志刚	
		主题报告：机电设备直流化产品研发及发展 DC Electromechanical Equipment: Product R&D and Industry Development **报 告 人：**格力电器，袁金荣	
	11:00-11:10	**茶 歇 / Tea Break**	
	11:10-12:00	**论文宣读：**Static Analysis of Modular Converter Capacitive Voltage Based on Laplace **论文编号：**31	
		论文宣读：Power Loss Estimation for High-Voltage SiC Devices Based on Heatsink Temperature and a Thermal Resistance Network **论文编号：**32	
		论文宣读：Wide-Range Voltage-Gain Modulation Method for a Hybrid Five-Level LLC Resonant Converter **论文编号：**85	
		论文宣读：Adjacent-Level Trapezoidal Current Modulation for Multilevel DC－DC Converters **论文编号：**86	
		论文宣读：Constraint-Based Transient Pulse-Width Modulation for Gain-Mode Transitions in a T-Type Three-Level DAB Converter **论文编号：**90	

分论坛七:直流系统规划与设计 Sub-forum 7: DC System Planning and Design 地点：紫荆厅（2楼）(Cercis Chinensis Hall, 2nd Floor)			
11月22日 上午 morning	09:00-11:00	**主题报告：**直流工程增容改造可行性及关键技术 Feasibility and Key Technologies of Capacity Expansion and Retrofit for HVDC Projects **报 告 人：**南网超高压公司电力科研院，李清	邱 伟/ 陈冠宏
		主题报告：特高压直流功率调整下受端电网无功电压协调控制方法 Coordinated Reactive Power and Voltage Control Method for Receiving-End Power Grid Under UHVDC Power Regulation **报 告 人：**重庆大学电气工程学院，牛涛	
		主题报告：背靠背柔性直流输电系统控制功能及故障分析 Control Functions and Fault Analysis of Back-to-Back VSC-HVDC Transmission System **报 告 人：**国网重庆电科院，余建峰	
		主题报告：瞬态电磁干扰下电子式互感器精细建模及受扰分析研究 Research on Calculation Model and Disturbance Analysis of Electronic Transformer under Transient Electromagnetic Interference **报 告 人：**西安理工大学，路文超	
		主题报告：微电网主动式保护技术的发展与挑战 Recent developments and challenges in control-based protection techniques for microgrids **报 告 人：**上海电力大学，方重凯	
		主题报告：柔性直流低开关频率调制与低全桥比例故障穿越 Low Switching Frequency Modulation and Low Propotion of FBSM for DC Fault Ride-Through of MMC **报 告 人：**华北电力大学电气与电子工程学院，赵西贝	
	11:00-11:10	**茶 歇 / Tea Break**	
	11:10-12:00	**论文宣读：**A TY-Type Clamp for Rapid Repair of Disconnected Downlead Conductors on Overhead Ground Wires in Ice-melting Lines **论文编号：**8	
		论文宣读： Three-level Qualification Method for High-altitude Converter Station Equipment Based on Multi-physics Coupling **论文编号：**23	
		论文宣读：Fatigue Damage and Conductor-Breakage Risk of Clamp Joints in ±500 kV Double-Circuit DC Transmission Lines	

		under Coupled Ice-Shedding Cycles and Aeolian Vibration **论文编号：**27	
		论文宣读： Multi-Indicator Assessment Method for VSC-DC Intertie Siting in Urban Distribution Networks Based on Operational Flexibility **论文编号：**70	
		论文宣读：Propagation of Pressure Wave Generated by Pulsed Arc Discharge within Transformer oil in Presence of L-shaped Corner **论文编号：**91	

二、大会组织架构

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沈　晟　重庆大学电气工程学院副研究员

刘小虎　重庆大学电气工程学院副研究员

三、致辞与主旨报告嘉宾



李剑，教授，国家级高层次人才，重庆大学副校长，输变电装备技术全国重点实验室主任。长期从事绿色智能输变电装备应用基础研究及极端环境电力变换传输方向关键技术研究。主持了智能电网 2030 重大专项 1 项、国家重点研发计划项目 1 项，国家 973 项目课题 1 项，国家 863 主题项目课题 2 项，国家自然科学基金重点项目 1 项。在电站智能监测方面，获国家科技进步奖二等奖 1 项、发明奖二等奖 1 项；在绿色电力变压器方面，获部省级发明奖一等奖 2 项；在极端环境电力变换与传输方面，国内率先建立了空间环境高压电力变换传输方向大型研究设施，获批重庆市重大基础设施培育建设和教育部空间电能变换与无线传输集成攻关大平台。

Professor Jian Li, a national high-level talent, serves as Vice President of Chongqing University and Director of the National Key Laboratory of Power Transmission Equipment Technology. He has long been engaged in applied fundamental research on green and intelligent power transmission and transformation equipment, as well as key technologies for power conversion and transmission under extreme environments. He has presided over one major special project of the Smart Grid 2030 Program, one National Key R&D Program project, one sub-project of the National 973 Program, two sub-projects of the National 863 Program, and one Key Program of the National Natural Science Foundation of China. In the field of intelligent substation monitoring, he was awarded the Second Prize of the National Science and Technology Progress Award and the Second Prize of the National Technological Invention Award. In the field of green power transformers, he has won two First Prizes of ministerial and provincial Technological Invention Awards. For power conversion and transmission in extreme environments, he pioneered the development of a large-scale research facility for high-voltage power conversion and transmission in space environments in China. He has also led the approval of a major infrastructure incubation project in Chongqing and the Ministry of Education Platform for Integrated Research on Space Electric Energy Conversion and Wireless Power Transmission.



祝谦，长期从事超特高压输电工程建设与技术攻关工作，在海缆输电工程及直流工程的规划、建设与运营管理等方面有丰富的经验，作为核心发明人的“低损耗多调谐无源滤波器”等专利应用于重大工程，有效解决了国际现有多调谐滤波器损耗高的缺陷，建立了超高压海底电缆智能运维体系。

Having long been engaged in the construction of EHV and UHV transmission projects and in tackling key technical challenges, he has extensive experience in the planning, construction, operation and management of submarine cable and HVDC transmission projects. The "Low-Loss Multi-Tuned Passive Filter" and related patents, for which he served as principal inventor, have been deployed in major engineering projects, effectively overcoming the high power losses associated with existing multi-tuned filters worldwide. He has also established an intelligent operation and maintenance (O&M) system for EHV submarine power cables.



钟志勇教授现任香港理工大学电机及电子工程学系系主任、电力系统工程讲座教授，同时为电网现代化研究中心创始主任。他是 2024–2025 届 IEEE 电力与能源协会候任主席、2026–2027 届 IEEE 电力与能源协会主席。钟教授是加拿大工程院院士、IEEE 会士、中国电机工程学会会士、英国工程技术学会会士、香港工程师学会会士，同时担任 IEEE 电力与能源协会杰出讲师。他曾获 2021 年度 IEEE 加拿大分会 P·齐奥加斯电力奖。

他曾担任 IEEE 电力与能源协会理事会无固定职务理事（智能电网方向）、无固定职务理事（全球拓展方向）、IEEE 电力与能源协会第 10 区北分会代表、IEEE 香港分会主席，以及 IEEE 电力与能源协会会士评审委员会委员。他受聘于九本国际期刊编委会，包括《IEEE 电力系统汇刊》资深编辑、《IEEE 可持续能源汇刊》顾问编辑、《现代电力系统与清洁能源学报》副主编。钟教授的研究成果包含 3 项美国专利、3 篇专著章节以及 200 余篇国际期刊论文。

Prof. Chi-Yung Chung is the Head of Department, Chair Professor of Power Systems Engineering and Founding Director of Research Centre for Grid Modernisation in the Department of Electrical and Electronic Engineering at the Hong Kong Polytechnic University (HKPolyU), Hong Kong, He is the 2024-2025 IEEE PES President-Elect and 2026-2027 IEEE PES President. Prof. Chung is a Fellow of the Canadian Academy of Engineering, a Fellow of IEEE, CSEE EIC, IET, and HKIE, and an IEEE PES Distinguished Lecturer. He is also the recipient of the 2021 IEEE Canada P. Ziogas Electric Power Award.

He was the Member-at-Large (Smart Grid) and Member-at-Large (Global Outreach) of IEEE PES Governing Board, the IEEE PES Region 10 North Chapter Representative, the Chair of IEEE Hong Kong Section, and a member of IEEE PES Fellow Evaluation Committee. He has been a member of the editorial board of nine international journals including Senior Editor of "IEEE Transactions on Power Systems", Consulting Editor of "IEEE Transactions on Sustainable Energy", and Vice Editor-in-Chief of "Journal of Modern Power Systems and Clean Energy". Prof. Chung's research work has generated 3 US patents, 3 book chapters and over 200 international journal papers.



谭博士是 E2+ Systems 公司创始人兼首席技术官，曾于《财富》世界前 500 强企业担任杰出工程师、院士以及中心主任，也是美国国家工程院院士、IEEE 会士。谭博士致力于超高效率功率变换与电子能源系统领域研究，他开创了多项突破性创新，产出多个行业首创技术，实现多项性能纪录，并获得政府最高级别表彰。他研发的硬件设备搭载于詹姆斯·韦伯空间望远镜（JWST），在距离地球数百万英里的太空稳定运行。谭博士任 IEEE 副主席暨技术活动委员会（TAB）主席、第二分部总监、IEEE 会士评选委员会主席、电力电子学会（PELS）主席、交通电气化委员会（TEC）创会主席、《JESTPE》期刊创刊主编、IEEE / 美国国防部 P1515/1573 标准工作组主席，以及电力电子学会拉丁美洲加勒比分会主席。谭博士斩获诸多奖项：IEEE 电力电子学会米德尔布鲁克成就奖、麦克默里行业成就奖、航空航天电力杰出成就奖、JANNAF 太空推进奖、美国航空航天学会系统开发奖、全美年度杰出工程师奖、下一代空间望远镜杰出专利奖，以及下一代空间望远镜总裁创新奖。

Dr. Don Tan is Founder/CTO, E2+ Systems. He served as Distinguished Engineer/Fellow/Center Director at a Fortune 500 corporation. Don is Member of US National Academy of Engineering, IEEE Fellow. He earned his Ph.D. from Caltech.

A visionary technical leader in ultra-efficient power conversion and electronic energy systems, Don has pioneered breakthrough innovations with high impact industry firsts and record performances, receiving recognitions from the highest level of Government. His hardware on JWST is functioning flawlessly millions of miles away from the earth.

Dr. Tan's professional leadership/services include IEEE VP & TAB Chair, Division II Director, IEEE Fellow Committee Chair, President of PELS, Founding President of TEC, Founding Editor-in-Chief of JESTPE, IEEE/DoD P1515/1573 Standards Working Group Chairs, and PELS LAC Chapter Chair. He is Distinguished Lecturer for IEEE Power Electronics Society (PELS) and IEEE Transportation Electrification Council (TEC), 2025-2027. Don received IEEE PELS Middlebrook Achievement Award, McMurry Industry Achievement Award, Distinguished Achievement Award for Aerospace Power, Owen Distinguished Service Award, JESTPE Prize Paper Award, JANNAF In-Space Propulsion Award, AIAA System Development Award, AAEOY Engineer of the Year Award, NGST Distinguished Patent Award, and NGST President Award for Innovation.



秦帅，男，汉族，1972 年 10 月生，四川阆中人，中共党员，1996 年 7 月参加工作，重庆大学电力系统及其自动化专业本科毕业，大学学历，博士学位，高级工程师。历任北京市供用电建设承发包公司党委书记、经理，国网北京市电力公司经济技术研究院院长、党委副书记，国网北京大兴供电公司经理、党委副书记，国网北京市电力公司市场营销部主任。2023 年 7 月，任国网重庆市电力公司副总经理、党委委员。

Qin Shuai, Male, Han ethnicity, born in October 1972, native of Langzhong, Sichuan Province. He is a member of the Communist Party of China. He started work in July 1996. He holds a Bachelor’s degree in Power System and Its Automation from Chongqing University, a doctoral degree, and is a Senior Engineer. He has successively served as Secretary of the Party Committee and Manager of Beijing Power Supply and Distribution Construction Contracting Company; President and Deputy Secretary of the Party Committee of the Economic and Technological Research Institute of State Grid Beijing Electric Power Company; Manager and Deputy Secretary of the Party Committee of State Grid Beijing Daxing Power Supply Company; and Director of the Marketing Department of State Grid Beijing Electric Power Company. In July 2023, he was appointed Deputy General Manager and Member of the Party Committee of State Grid Chongqing Electric Power Company.



程炯，长期致力于高压直流输电工程的建设与管理工作，主要参与和负责直流输电工程建设、换流站运行维护、安全生产管理以及企业经营管理等多项重要工作。主要参与和负责宜都换流站、葛洲坝换流站等 10 余个重大直流输电工程项目建设和运营管理，参与国家标准《±800 kV 换流站运行规程编制导则》等标准 4 项，参编《特高压换流站运维检修管理细则》等专著 11 部，发表论文 7 篇，获得专利授权 7 项。

have been dedicated to the construction and management of HVDC transmission projects for a long time, primarily participating in and taking charge of various crucial tasks such as direct current transmission project construction, converter station operation and maintenance, safety production management, and enterprise operation and management. he have been primarily involved in and responsible for the construction and operational management of more than 10 major direct current transmission projects, including the Yidu converter station and the Gezhouba converter station. he have participated in the development of 4 standards, including the national standard "Guidelines for the Preparation of Operating Procedures for ±800 kV Converter Stations". Additionally, I have co-authored 11 monographs, such as "Detailed Rules for Operation, Maintenance, and Overhaul Management of UHV Converter Stations", published 7 papers, and obtained 7 patent authorizations.



Jian Yu，在英国和美国电力领域工作期间，主要负责电力系统创新与战略规划。 主导10多项英国能源创新专项， 涉及经费逾1.5亿英镑。报告人目前担任国际大电网协会英国技术委员会主席， 2020年因为对能源创新贡献获得勋章，2022年入选英国爱丁堡皇家学会院士， 2023年获得IET国际创新金奖。

James Yu has been engaged with CIGRE since his studies at Newcastle. Following the completion of his research degree, he joined the electricity networks industry and has held a range of planning, innovation and leadership roles across the sector in both sides of Atlantic, including positions with SSEN, SPEN and Avangrid. Throughout his career, James has initiated and led ten nationally significant innovation programmes with a combined portfolio exceeding £150 million, delivering advancements in wide area monitoring, flexibility, resilience and power electronics. These projects are expected to generate customer and system benefits valued at more than £1billion by 2035. James is committed to electricity network transformation. He was appointed MBE in 2020 for services to the electricity supply industry and innovation, and was elected a Fellow of the Royal Society of Edinburgh in 2022.



张国华，博士，正高级工程师，国家电网有限公司直流技术中心技术部主任。长期从事特高压直流输电技术研究、直流运维和生产技术管理工作。荣获国家电网公司、中国电机工程学会、中国电工技术学会、中电联等各类奖励 10 项，拥有授权发明专利 18 项，出版著作 10 部。

Dr. Zhang Guohua, PhD, Professor-level Senior Engineer, Director of the Technology Department of the HVDC Technology Center, State Grid Corporation of China. He has long been engaged in research on UHVDC transmission technology, HVDC operation and maintenance, and production technology management. He has won 10 awards from State Grid Corporation of China, the Chinese Society for Electrical Engineering, China Electrotechnical Society, China Electricity Council and other institutions, holds 18 authorized invention patents, and has published 10 monographs.



余占清，教授、博士生导师，清华大学电机系党委副书记、直流研究中心主任，教育部长江学者特聘教授、国家基金委优秀青年基金获得者。

主要从事直流电网芯片与装备、直流系统电磁暂态等领域研究和教学工作。主持或参与自然科学基金、973、863、国家重点研发计划课题、国家重点实验室基金项目多项。发表论文 200 余篇，其中 SCI 论文 100 余篇，授权发明专利 120 余项，曾获国家发明二等奖 1 项、国家科技进步二等奖 1 项、省部级一等奖 10 余项。

Zhanqing Yu, Professor and Doctoral Supervisor, Deputy Party Secretary of the Department of Electrical Engineering and Director of the DC Research Center, Tsinghua University. Changjiang Scholar Distinguished Professor, recipient of the National Science Fund for Distinguished Young Scholars. His research covers DC grid chips & equipment and DC system electromagnetic transients. He has published over 200 papers (100+ SCI), obtained 120+ invention patents, and received multiple national and provincial-level awards including two National Second Prizes.



董慨先生现任台达电子新兴市场事业群总经理。自2006年加入台达以来，长期深耕电力电子与数据中心电源领域，历任研发、产品线及事业部管理职务，曾于德国及泰国等地工作与受训。在产品研发、市场拓展、国际化团队管理及全球运营方面拥有丰富经验。

2025年外派德国担任高阶客制电源事业部总经理，负责全球数据中心电源业务运营。2026年任新兴市场事业群总经理，带领团队推动新市场、新业务与新技术发展，持续提升企业竞争力与成长动能。

Mr. Kai Dong serves as General Manager of the Emerging Markets Business Group at Delta Electronics. Since joining Delta in 2006, he has long specialized in power electronics and data center power supplies. He has held management positions in R&D, product lines and business units, and has worked and received training in Germany, Thailand and other regions. He boasts extensive experience in product development, market expansion, international team management and global operations.

In 2025, he was seconded to Germany as General Manager of the High-end Custom Power Supply Business Unit, in charge of the global operation of data center power supply business. In 2026, he was appointed General Manager of the Emerging Markets Business Group. He leads the team to advance the development of new markets, new businesses and new technologies, and continuously strengthens the enterprise’s competitiveness and growth momentum.



陈潜，南方电网超高压公司电科院直流技术部高级经理、三级领军技术专家、正高级工程师。长期从事高压直流输电运维管理工作，参与了国家能源局首个直流输电管理政策文件起草和直流输电系统反事故措施修订。近年来组织完成直流闭锁因素分析及隐患排查整治、特高压柔直首台套设备运行可靠性提升等 40 余项重大问题的技术攻关，促进直流输电系统运行指标提升；积极推动直流新技术、新设备试点应用，组织完成自主可控直流控制保护系统、直流干式电容器、IGCT 功率模块等设备挂网试运行。近年来获得各层级科技奖励 26 项，参编专著 3 部，编制技术标准 12 项，发表论文 19 篇。

Chen Qian, Senior Manager of the DC Technology Department at the Electric Power Research Institute of the EHV Power Transmission Company, China Southern Power Grid, a Leading Technical Expert and Professor-level Senior Engineer, has long been engaged in HVDC transmission operation and maintenance management. He participated in the drafting of the National Energy Administration’s first policy document on HVDC transmission management and in the revision of anti-accident measures for HVDC transmission systems. In recent years, he has organized and completed technical research and breakthroughs on more than 40 major issues, including the analysis of DC blocking factors and the investigation and rectification of potential hazards, as well as the improvement of the operational reliability of the first set of UHV flexible DC equipment, thereby facilitating improvements in HVDC system operational performance. He has actively promoted the pilot application of new DC technologies and equipment and organized the grid-connected trial operation of independently controllable HVDC control and protection systems, DC dry-type capacitors, IGCT power modules, and other equipment. He has received 26 science and technology awards at various levels, co-authored 3 monographs, contributed to the formulation of 12 technical standards, and published 19 papers.



张怿宁，IEEE PES中国副主席，IEEE PES直流电力系统技术委员会(中国)秘书长，IEEE PES亚太区会员活动负责人，IET Fellow，工学博士，正高级工程师，南方电网公司一级领军技术专家，IEC TC95 WG2工作组专家，ITU-T M.bsm-rest、IEEE P2831和IEEE P3949标准工作组主席，IEEE PCCC杰出工程师。主要从事超高压交直流输电系统自动化，继电保护与控制，输电线路故障定位，海底电缆运行状态监测的研究、仿真和检修工作。

Zhang Yining, Vice Chair of IEEE PES China, Secretary-General of IEEE PES DC Power System Technical Committee (China), Lead for Member Activities of IEEE PES Asia-Pacific Region, IET Fellow, Doctor of Engineering, Professor-level Senior Engineer, First-Class Leading Technical Expert of China Southern Power Grid Company Limited, Expert of IEC TC95 WG2, Chair of the Standard Working Groups for ITU-T M.bsm-rest, IEEE P2831 and IEEE P3949, and IEEE PCCC Distinguished Engineer. His main research, simulation, maintenance work focuses on the automation of EHV AC and DC transmission systems, relay protection and control, fault location of transmission lines, and operational condition monitoring of submarine cables.

四、专题报告专家

分论坛一：直流输变电设备技术（一）



杨旭，博士，南方电网超高压输电公司电力科研院研究员，三级领军技术专家。主要从事高压开关设备故障分析、智能化技术研究和装备研制。作为负责人和技术骨干承担了近 20 项国家级、网公司级科研项目，涉及特高压直流输电、开关关键材料、设备国产化、数字孪生和抗震技术等。获得省部级、行业级科技奖励 13 项，南方电网科技进步一等奖 1 项、二等奖 3 项；发表相关论文 20 余篇，授权发明专利 25 项、国际专利 5 项

Yang Xu, Ph.D., is a researcher at the Electric Power Research Institute of the Extra High Voltage Power Transmission Company, China Southern Power Grid (CSG), and a Level III Leading Technical Expert. His primary research interests include failure analysis of high-voltage switchgear, intelligent technologies, and equipment development.

He has served as a project leader or key technical contributor in nearly 20 national-level and CSG-level research projects, covering ultra-high-voltage DC transmission, key materials for switching equipment, localization of equipment, digital twin technologies, and seismic technologies.



邓军，国务院政府津贴专家，国家重点研发计划项目负责人，南方电网战略级技术专家，长期从事大型电力装备绝缘安全及火灾防控方法的研究，致力于大型电力装备绝缘故障演变机制和爆燃防控关键技术攻关、核心装备研制和重大工程应用。主持国家重点研发计划项目 1 项、国家自然科学基金 1 项，牵头制定国际与国内标准 30 项，曾获辽宁省科技进步一等奖、重庆市科技进步一等奖等省部级奖励 3 项。

Recipient of the Special Government Allowance from the State Council, Principal Investigator of National Key R&D Program projects, and Strategic-level Technical Expert of China Southern Power Grid. He has long been engaged in research on insulation safety and fire prevention & control methods for large power equipment. His work focuses on tackling key technologies for the evolution mechanism of insulation faults and deflagration prevention and control of large power equipment, developing core equipment, and promoting their application in major engineering projects. He has presided over 1 National Key R&D Program project and 1 National Natural Science Foundation project, and led the development of 30 international and domestic standards. He has won three provincial and ministerial-level awards including the First Prize of Liaoning Provincial Science and Technology Progress Award and the First Prize of Chongqing Municipal Science and Technology Progress Award.



李顺波，重庆大学光电工程学院教授，博士生导师，重庆市高层次人才。2009年本科毕业于重庆大学，2014年博士毕业于香港科技大学，在日本冲绳科学技术大学院大学和沙特国王科技大学有访学经历，2014-2017年在英国利兹大学做博士后研究工作，2018年以“百人学者”引进人才加入重庆大学。学术兼职方面任The Innovation期刊青年编委，中国检验检测学会理事，中国仪器仪表学会微纳器件与系统技术分会理事，中国微米纳米技术学会生物微机电系统技术分会理事。承担了科技部重点研发计划、国家自然科学基金面上项目和青年项目、重庆市重点专项、国家重点实验室项目以及企业委托项目超过15项。发表SCI论文超过80篇，编写教材1部，共同出版专著1本，获权中国发明专利超过15项，美国发明专利1项。

Li Shunbo, Professor at the College of Optoelectronic Engineering, Chongqing University, and a high-level talent in Chongqing. He graduated with a bachelor's degree from Chongqing University in 2009 and obtained his PhD from Hong Kong University of Science and Technology in 2014. He has visited and studied at Okinawa Institute of Science and Technology, Japan, and King Abdullah University of Science and Technology, Saudi Arabia. From 2014 to 2017, he conducted postdoctoral research at the University of Leeds, UK. In 2018, he joined Chongqing University by "Hundred Talents Program". In terms of academic appointments, he serves as a young editorial board member of The Innovation journal, a council member of the China Inspection and Testing Society, a council member of the Micro/Nano Devices and Systems Technology Branch of the Chinese Instrumentation and Control Society, and a council member of the Bio-MEMS Technology Branch of the China Micron and Nanotechnology Society. He has undertaken more than 15 projects, including key research and development plans from the Ministry of Science and Technology, general and youth projects from the National Natural Science Foundation of China, key special projects in Chongqing, State Key Laboratory projects, and enterprise-commissioned projects. He has published over 80 SCI papers, authored one textbook, co-published one monograph, and obtained more than 15 Chinese invention patents and one US invention patent.



赵仲勇，西南大学副教授，长期从事电力设备故障诊断与状态评估技术研究，主持国家、四川省、重庆市自然科学基金等国家级、省部级项目 5 项，以第一/通讯作者发表 SCI、EI 论文 40 余篇，获中国电工技术学会科技进步二等奖 1 项，入选重庆市巴渝青年学者、澳门青年学者、重庆市科技副总。

Zhao Zhongyong, Associate Professor at Southwest University. His long-term research interests include fault diagnosis and condition assessment of power equipment. He has presided over 5 national and provincial/ministerial research projects including the National Natural Science Foundation of China, the Natural Science Foundation of Sichuan Province and the Natural Science Foundation of Chongqing. He has published more than 40 SCI/EI-indexed papers as the first or corresponding author. He was awarded the Second Prize of the Science and Technology Progress Award by the China Electrotechnical Society. He has been selected as a Chongqing Bayu Young Scholar, Macao Young Scholar and Chongqing Enterprise Science and Technology Vice-Director.



张智昊，博士，上海交通大学电气工程学院助理研究员。长期从事电力装备多物理场耦合建模与内部状态反演研究，针对变压器、套管等装备在过热、内部电弧等故障工况下的状态感知难题，开展电-热-流-力多物理场仿真、流动与传热机理分析，以及基于物理信息神经网络（PINN）的热/机械状态反演与数字孪生推演方法研究。主持国家自然科学基金青年科学基金项目，参与南方电网科技项目等多项课题研究。

Zhang Zhihao, PhD, is an Assistant Research Fellow at the School of Electrical Engineering, Shanghai Jiao Tong University. He has long been engaged in multiphysics-coupled modelling and internal-state inversion of power equipment. Targeting the state-perception challenges of transformers and bushings under fault conditions such as overheating and internal arcing, his work covers electro-thermal-fluid-mechanical multiphysics simulation, flow and heat transfer mechanisms, and physics-informed neural network (PINN) based inversion of thermal and mechanical states as well as digital-twin-driven state deduction. He currently leads a Youth Science Fund project funded by the National Natural Science Foundation of China and has participated in several research projects funded by China Southern Power Grid.



刘青松，南方电网超高压输电公司电力科研院研究员、三级领军技术专家，高级工程师，2009年本科毕业于重庆大学，2012年硕士毕业于山东大学。长期从事超/特高压直流输电换流变压器、电抗器等核心主设备以及500kV超高压海缆技术研究。主持研制成功世界首台套±800kV特高压柔直桥臂电抗器样机并量产，获得国家能源局首台套重大技术装备认定，研究成果获得中国机械工业科技进步奖二等奖（排名第2），中国电力企业联合会科技进步二等奖（排名第1），助力世界首个特高压柔直工程——±800kV昆柳龙特高压多端柔直工程获得19项世界第一，并获得“2020年度央企十大超级工程”。发表相关论文40余篇，授权发明专利20余项。

Liu Qingsong, Research Fellow, Leading Technical Expert and Senior Engineer of Electric Power Research Institute, CSG EHV Power Transmission Company. He received his bachelor’s degree from Chongqing University in 2009 and master’s degree from Shandong University in 2012. He has long been engaged in technical research on core main equipment such as converter transformers and reactors for EHV/UHV DC transmission, as well as 500 kV EHV submarine cables.

He presided over the development and successful fabrication of the world’s first prototype set of ±800 kV UHV VSC-HVDC bridge-arm reactors, which has achieved mass production and obtained the certification for the first (set of) major technical equipment issued by the National Energy Administration. His research achievements won the Second Prize of China Machinery Industry Science and Technology Progress Award (2nd place) and the Second Prize of China Electricity Council Science and Technology Progress Award (1st place). His work supported the ±800 kV Kunliulong UHV multi-terminal VSC-HVDC Project, the world’s first UHV VSC-HVDC project, to claim 19 world firsts. This project was also honored as one of the “Top 10 Super Projects of Central SOEs in 2020”.

He has published more than 40 related papers and holds over 20 authorized invention patents.

分论坛二：直流输变电设备技术（二）



孙优良，博士，教授级高级工程师，现任 CEE 山东电工电气集团首席专家。系享受国务院政府特殊津贴专家，国家能源局电力行业专家库专家。长期从事特高压交直流变压器设计研发工作，重点研究方向为换流变压器，主持研制成功数百台高能效、高可靠性换流变压器；获国家级、省部级科技奖项及成果证书 30 余项，发表论文 50 余篇，拥有专利 40 余项。兼任 IEEE PES 高压绝缘技术委员会高压内绝缘技术分委会常务理事、IEEE PES 变电站技术委员会直流变电站技术分委会常务理事，硕士生导师。

Dr. Youliang Sun（Professor-level Senior Engineer） is currently Chief Expert of CEE Shandong Electrical Engineering & Equipment Group. He is an expert entitled to the Special Government Allowance of the State Council and a member of the RCM Expert Pool for the Power Industry of the National Energy Administration. His research interests include the design and development of UHV AC and DC transformers, with particular focus on converter transformers. He has led the successful development of hundreds of high-efficiency, high-reliability converter transformers, has received more than 30 national- and provincial/ministerial-level science and technology awards and achievement certificates, has published over 50 papers, and holds more than 40 patents. He serves as Executive Council Member of the High Voltage Internal Insulation Subcommittee of the IEEE PES High Voltage Insulation Technical Committee and of the DC Substation Subcommittee of the IEEE PES Substations Committee, and is a supervisor of master's degree candidates.



张凡，西安交通大学副教授，陕西第十五届青年科技奖获得者，长期从事电力变压器振动噪声与状态评估技术、电力变压器高能电弧故障防御研究，先后主持自然科学基金 2 项、国家重点研发计划任务 3 项，省部级项目 3 项，任 CIGRE JWG A2-C3.79 委员、SAC TC60SC2 委员、IEEE PES 变压器技术委员会（中国）故障防御技术分委会委员。

Zhang Fan is an Associate Professor at Xi'an Jiaotong University and a recipient of the 15th Shaanxi Youth Science and Technology Award. He has long been engaged in research on vibration and noise and condition assessment technologies for power transformers, as well as high-energy arc fault defense for power transformers. He has led two projects funded by the National Natural Science Foundation of China, three tasks under the National Key R&D Program of China, and three provincial projects. He serves as a member of CIGRE JWG A2-C3.79, a member of SAC TC60SC2, and a member of the Fault Defense Technology Subcommittee of the IEEE PES Transformer Technical Committee (China)



杨霄，华北电力大学电气学院副教授，长期致力于高压直流输电技术及先进电介质材料研究，以第一/通讯作者发表 SCI 论文 40 余篇，授权发明专利 15 项，国际 PCT 专利 5 项。主持国家自然科学基金项目 2 项、国家科技重大专项课题 1 项、国家重点研发计划子课题 4 项，获江西省科技进步一等奖 1 项。

Yang Xiao is an Associate Professor at the School of Electrical Engineering, North China Electric Power University. His research focuses on high-voltage direct-current (HVDC) transmission technology and advanced dielectric materials. He has published more than 40 SCI-indexed papers as first author or corresponding author, holds 15 granted invention patents, and has filed five international patent applications(PCT). He has led two projects funded by the National Natural Science Foundation of China (NSFC), one research task under the National Science and Technology Major Project, and four subprojects under the National Key Research and Development Program of China. He received the First Prize of the Jiangxi Provincial Science and Technology Progress Award.



于兵，高级工程师，2016 年华中科技大学电气工程硕士毕业，入职国网浙江电科院。先后从事变电高压试验、故障诊断、特高压技术监督等岗位，参与新疆昌吉换流站、藏中联网等重大工程技术支撑，承担省内多座特高压换流站试验及年检监督任务，现任电气室副主任。牵头研制两套特高压试验平台，主持、参与多项国网、省公司科技项目。以第一作者发表 EI 论文 7 篇，授权专利 15 项，参与编制标准 15 项，并多次参加技能竞赛、QC 攻关获得多项奖项。

Yu Bing, Senior Engineer. He received his master’ s degree in Electrical Engineering from Huazhong University of Science and Technology in 2016 and joined the State Grid Zhejiang Electric Power Research Institute. He has successively worked in positions including substation high-voltage testing, fault diagnosis, and UHV technical supervision. He participated in technical support for major projects such as the Changji Converter Station in Xinjiang and the Central Tibet Power Grid Interconnection Project, and undertook testing and annual inspection supervision tasks for multiple UHV converter stations in Zhejiang Province. He currently serves as Deputy Director of the Electrical Division. He led the development of two UHV test platforms and presided over or participated in multiple science and technology projects of State Grid Corporation of China and the provincial power company. He has published 7 EI-indexed papers as first author, obtained 15 authorized patents, and participated in the formulation of 15 standards. He has also participated in skills competitions and QC improvement activities multiple times and won multiple awards.



张艳芳，重庆电子科技职业大学教学科研岗教师，重庆大学电气工程专业高压方向博士毕业， 长期从事微胶囊自修复电工材料研究，主持重庆市自然科学基金面上项目 1 项，重庆市市教委科技项目 2 项。

Zhang Yanfang is a teaching and research faculty member at Chongqing Vocational University of Electronic Science and Technology. She received her Ph.D. in Electrical Engineering, specializing in High Voltage Engineering, from Chongqing University. Her research has long focused on microcapsule-based self-healing electrical insulating materials. She has served as the principal investigator of one General Program project funded by the Chongqing Natural Science Foundation and two scientific research projects funded by the Chongqing Municipal Education Commission.



刘小虎，重庆大学电气工程学院副研究员，分别于 2016 年、2022 年获得重庆大学学士、博士学位，2023 年~2026 年于清华大学电机开展博士后研究，2026 年 9 月入职重庆大学。主持国家自然科学基金青年科学基金（C 类）项目，以项目骨干身份参与国家重点研发计划、智能电网国家科技重大专项、国家自然科学基金面上项目、国家电网和南方电网科技项目等项目多项。主要研究方向为电磁场逆问题、电磁测量、AI 智能感知、量子精密测量等。

Xiaohu Liu is an Associate Research Fellow at the School of Electrical Engineering, Chongqing University. Dr. Liu received bachelor’s and doctoral degrees from Chongqing University in 2016 and 2022, respectively, and conducted postdoctoral research in the Department of Electrical Engineering at Tsinghua University from 2023 to 2026 before joining Chongqing University in September 2026.Dr. Liu is the principal investigator of a project funded by the National Natural Science Foundation of China (NSFC) Youth Science Fund Program (Category C) and has contributed as a key researcher to multiple projects supported by the National Key R&D Program of China, the National Science and Technology Major Project on Smart Grids, the NSFC General Program, and science and technology programs of the State Grid Corporation of China and China Southern Power Grid.Dr. Liu’s main research interests include electromagnetic inverse problems, electromagnetic measurement, AI-powered sensing, and quantum precision measurement.

分论坛三：直流输电控制保护技术



彭发喜，南网科研院电力电子所研究室经理/主任，主要从事直流输电与电力电子控制保护技术研究，担任多个高压直流输电工程成套设计总工程师和控制保护专业负责人，高级工程师，浙江大学在读工程博士，累计发表高水平论文 20 余篇，授权发明专利 20 余项，参编各类技术标准 10 余项，获省部级/行业级科学技术奖 7 项，获南方电网公司集体特等功等。

Peng Faxi, Manager/Director of the Research Division, Power Electronics Institute, CSG Electric Power Research Institute. He is mainly engaged in research on HVDC transmission and power electronic control and protection technologies. He has served as the Chief Engineer for complete set design and the lead specialist of control and protection for multiple HVDC transmission projects. He is a Senior Engineer and an on-candidate Doctor of Engineering at Zhejiang University. He has published more than 20 high-level papers, obtained over 20 authorized invention patents, participated in compiling more than 10 various technical standards, won 7 provincial/ministerial and industry-level science and technology awards, and received the Collective Special-Class Merit Citation of China Southern Power Grid, among other honors.



李桂源，南方电网二级拔尖技术专家,受聘为浙江大学硕士生导师，国际大电网 CIGRE B4.85 工作组成员，入选广州市黄埔精英人才。长期从事直流输电与高压大容量超容直挂储能的技术研究，主力参与了世界首个特高压多端混合直流输电工程“昆柳龙直流”、世界上首个千兆瓦级柔性直流工程“鲁西背靠背”、粤港澳大湾区分区互联工程的控制保护关键技术攻关。累计发表论文 20 余篇，授权专利 30 余项，授权国际专利 1 项，获中国电工技术一等奖（排 3）、广东省专利金奖、中国发明创业奖创新奖一等奖等 20 多项科技奖励。

Li Guiyuan, Level 2 Top-notch Technical Expert of China Southern Power Grid, Master’s Supervisor at Zhejiang University, and Member of CIGRE Working Group B4.85. He is a recipient of Huangpu Elite Talent of Guangzhou. He has long been dedicated to the technical research on HVDC transmission and high-voltage large-capacity supercapacitor direct-connected energy storage. He was a core contributor to key research on control and protection technologies for the world’s first UHVDC multi-terminal hybrid HVDC project — Kunliulong HVDC, the world’s first gigawatt-level VSC-HVDC project — Luxi Back-to-Back HVDC, and the Guangdong-Hong Kong-Macao Greater Bay Area Zonal Interconnection Project. He has published more than 20 papers, obtained over 30 authorized patents including one international patent. He has won more than 20 science and technology awards, such as the First Prize of China Electrotechnical Society Technology Award (3rd-ranked contributor), Guangdong Provincial Gold Patent Award, and the First Prize of the Innovation Award of China Invention and Entrepreneurship Award.



张翕，南网超高压公司电力科研院直流控保和仿真技术人员，工程师，硕士研究生，主要从事直流控保和仿真技术研究与工程应用、直流系统的调试，参加兴安直流控保改造等生产技改项目，参与直流设备、系统试验标准的制定修编。

Zhang Xi, Engineer with a master’s degree, is a technical specialist in DC control, protection and simulation at the Electric Power Research Institute of CSG EHV Power Transmission Company. His main work covers research and engineering application of DC control, protection and simulation technologies as well as commissioning of DC systems. He has participated in technical renovation projects such as the Xing’an DC control and protection renovation, and taken part in the formulation and revision of test standards for DC equipment and systems.



洪权炜，南方电网超高压输电公司电力科研院直流控制保护技术人员，工程师，硕士研究生，长期从事直流控制保护技术研究与工程应用，参加兴安直流控保改造、天广直流阀控改造、东方站加装STATCOM等多个生产技改项目，参与多个直流控保、直流融冰装置等国家标准。

Hong Quanwei serves as a technical professional in DC control and protection at the Electric Power Research Institute of EHV Power Transmission Company, China Southern Power Grid. He is an engineer and holds a Master’s degree. He has long been engaged in research and engineering applications of DC control and protection technology. He has participated in multiple production technical upgrading projects, including the Xing’an DC control and protection renovation, the Tianguang DC valve control renovation, and the installation of STATCOM at Dongfang Station. He has also participated in the development of several national standards related to DC control and protection and DC ice-melting devices.

分论坛四：直流配电网技术(含低频输电技术)



沈鑫，正高级工程师，博士，云南电网有限责任公司技术专家，入选万人计划“产业技术领军人才”、云南省技术创新人才、全国电力行业科技领军工作者、中国电力市场科技创新人才、中国商业协会科技创新人才、云南省知识产权事务人才、云南省十大“向上向善”杰出青年提名奖、昆明市第十七批学术与技术带头人、第四届昆明市经开区“优秀人才”、首届中国南方电网创客。目前担任IEC62057、IEC 61557、ISO28564系列国际标准工作组成员，全国电工仪器仪表标委会委员、全国电磁计量技委会委员，中国电机工程学会、中国电工技术学会、中国仪器仪表学会高级会员等。获得省部级、行业级及以上科技奖一等奖8项。参与国家重点研发计划、国家自然科学基金、云南省重大专项等项目20余项，发表SCI、EI等论文60余篇，牵头制修订国际标准2项、国家标准12项。

Xin Shen , Professor-level Senior Engineer, PhD. He is a Technical Expert of Yunnan Power Grid Co., Ltd. He has been selected for multiple talent honours including the Yunnan Provincial Ten-Thousand Talents Program (Industrial Technology Leading Talent), Yunnan Provincial Technical Innovation Talent, National Electric Power Industry Science and Technology Leading Talent, China Power Market Science and Technology Innovation Talent, China General Chamber of Commerce Science and Technology Innovation Talent, Yunnan Provincial Intellectual Property Affairs Talent, nominee for Yunnan Top Ten "Upright and Kind" Outstanding Youth, the 17th batch of Academic and Technical Leaders of Kunming, Outstanding Talent of the 4th Kunming Economic and Technological Development Zone, and the First Batch of China Southern Power Grid Makers. He currently serves as a member of the working groups for the IEC 62057, IEC 61557 and ISO 28564 series of international standards, member of the National Technical Committee for Electrical Instrumentation Standardization, member of the National Technical Committee for Electromagnetic Metrology, and Senior Member of the Chinese Society for Electrical Engineering, China Electrotechnical Society and China Instrument and Control Society.He has won 8 first prizes of science and technology awards at the provincial-ministerial and industry levels and above. He has participated in more than 20 projects including the National Key R&D Program, National Natural Science Foundation of China, and major special projects

of Yunnan Province. He has published over 60 papers indexed by SCI, EI and other databases. He leads the development and revision of 2 international standards and 12 national standards.



侯院军，上海大阈信息技术有限公司副总经理，博士，高级工程师。IEEE PES直流电力系统技术委员会常务理事、中国电源学会新能源电能变换技术委员会委员、IEEE 电力与能源协会中国区储能技术委员会理事，中国节能协会光储直柔专委会委员。从事新能源行业15年，主要研究研究新能源微电网组网、变换和光储直柔技术、新能源变换器、直流微电网电能路由器和能源管理器技术，是上海应用技术大学、扬州大学、西北农林科技大学研究生企业导师。开发双馈和直驱风电变流器2款，设计并承担交直流混合微电网10余项，承担上海市科委2020年度《基于直流微电网技术的智慧建筑能源系统应用示范》和上海市科委2021年度《高层建筑光伏柔性直流用电关键技术研究及应用》项目建设，起草《智慧直流建筑能源系统应用技术规程》团体标准一项。获授权发明专利2项，实用新型专利1项，发表论文8篇。

Yuanjun Hou， Vice General Manager and Senior Engineer, Ph.D., Shanghai Dayu Information Technology Co., Ltd. Standing Director of the IEEE PES DC Systems Technical Committee, Committee Member of the China Power Supply Society, Director of the IEEE PES China Energy Storage Technology Committee. With 15 years in the new energy industry, research focuses on microgrid networking and conversion, PEDF technologies, new energy converters, and DC microgrid power routers and energy managers. Also serves as an enterprise mentor for graduate students at Shanghai Institute of Technology, Yangzhou University, and Northwest A&F University. Developing two types of wind power converters and undertaken more than 10 AC-DC hybrid microgrid projects, including two demonstration projects funded by the Shanghai Science and Technology Commission. He drafted one group standard and holds 2 invention patents and 1 utility model patent, with 8 published papers.



周念成，博士，三级教授，博士生导师，重庆大学电气工程学院电力系统及其自动化系主任。1997年在重庆大学电机系电力系统及其自动化专业获得博士学位。1997年12月-2003年6月，在重庆跨越科技有限公司从事变电站保护及综合自动化系统开发工作。2003年7月，作为引进人才进入重庆大学电气工程学院工作，其间，2010年-2011年在新加坡南洋理工大学做Research Fellow。主要从事交直流电网的故障分析与保护、含微电网的主动配电网运行与控制、电能质量等教学和研究工作。IEEE 高级会员、《电力系统保护与控制》、《电力系统自动化学报》编委。主编中文规划教材1本。发表SCI论文100余篇，获得国家知识产权局授权的发明专利34项。获重庆市科技进步一等奖、教育部自然科学二等奖、仪器仪表协会科技进步一等奖各1项。主持国家自然科学基金面上项目3项、2030智能电网项目课题1项。

Niancheng Zhou, Ph.D., is a Professor (Grade III), a doctoral supervisor, and Head of the Department of Power Systems and Automation at the School of Electrical Engineering, Chongqing University, China. He received his Ph.D. degree in Power Systems and Automation from the Department of Electrical Engineering, Chongqing University, in 1997. From December 1997 to June 2003, he worked at Chongqing Kuayue Technology Co., Ltd., where he developed substation protection and integrated automation systems. In July 2003, he joined the School of Electrical Engineering, Chongqing University, through its talent recruitment program. From 2010 to 2011, he was a Research Fellow at Nanyang Technological University, Singapore. His teaching and research interests include fault analysis and protection of AC/DC power grids, operation and control of active distribution networks incorporating microgrids, and power quality. He is a Senior Member of the IEEE and serves on the editorial boards of Power System Protection and Control and the Journal of Power System Automation. He has served as editor-in-chief of one Chinese-language textbook, published more than 100 papers in SCI-indexed journals, and holds 34 invention patents granted by the China National Intellectual Property Administration. He has received the First Prize of the Chongqing Science and Technology Progress Award, the Second Prize of the Natural Science Award of the Ministry of Education of China, and the First Prize of the Science and Technology Progress Award of the Instrumentation Association. He has led three General Program projects funded by the National Natural Science Foundation of China and

one subproject under the Smart Grid 2030 Project.



李再男，重庆大学助理研究员，主要从事电力系统控制与保护研究。获日内瓦国际发明展金奖、银奖及省部级科技奖励。以第一作者或通信作者发表SCI/EI论文21篇，其中IEEE Transactions系列期刊论文6篇、《中国电机工程学报》论文8篇。主持国家自然科学基金青年科学基金项目（C类）、中国博士后科学基金面上项目、重庆市自然科学基金面上项目及全国重点实验室开放基金项目，作为骨干参与集成项目和智能电网重大专项。现任PCMP期刊副编辑，并担任IEEE TIE、TPD、TSET、TPEL等期刊审稿人。

Zainan Li is an Assistant Researcher at Chongqing University. His research focuses on power system control and protection. He has received gold and silver medals at the International Exhibition of Inventions Geneva, as well as provincial- and ministerial-level science and technology awards. He has published 21 SCI/EI-indexed papers as the first or corresponding author, including six in IEEE Transactions journals and eight in the Proceedings of the CSEE. He serves as the principal investigator for projects supported by the National Natural Science Foundation of China’s Young Scientists Fund (Category C), the China Postdoctoral Science Foundation, the Chongqing Natural Science Foundation, and an open research fund of a national key laboratory. He has also contributed as a key researcher to an integrated research project and a major project on smart grids. He currently serves as an Associate Editor of PCMP and a reviewer for IEEE TIE, TPD, TSET, TPEL, and other journals.

分论坛五：直流输配电系统仿真技术



李晓华，华南理工大学电力学院教授， IEEE PES 直流电力技术专业委员会理事、IEEE PES 电力系统保护与控制技术委员会电力线路保护技术分委会副主席。多年来一直从事直流输电技术、电力系统仿真技术、电力系统故障分析、新能源并网控制保护等方面的研究工作，承担了包括智能电网联合基金、国家重点研发计划:政府间国际科技创新合作、智能电网国家科技重大专项、国家自然科学基金、863/973 重点研发计划、海上风电联合基金重点、广东省基金、等纵向课题二十余项；在国内外重要学术刊物上，发表论文 200 余篇，主编专著 2 本，参编 3 本。

Professor at the School of Electric Power Engineering, South China University of Technology.

She serves as a Council Member of the IEEE PES DC Power Technologies Committee and Vice Chair of the Power Line Protection Subcommittee under the IEEE PES Power System Protection & Control Committee.

Her research interests encompass HVDC transmission technology, power system simulation, fault analysis, and the control and protection strategies for new energy grid integration. She has led over 20 national and provincial-level funded projects, including those supported by the Smart Grid Joint Fund, the National Key R&D Program (Intergovernmental International Science and Technology Innovation Cooperation), the National Science and Technology Major Project for Smart Grids, the National Natural Science Foundation of China (NSFC), the National High-Tech R&D Programs (863/973 Plans), the Offshore Wind Power Joint Fund, and the Guangdong Provincial Natural Science Foundation.

She has authored more than 300 papers in prestigious domestic and international academic journals, edited two monographs, and contributed to three others.



王拓，东北电力大学电气工程学院讲师，硕士研究生导师，长期从事新型直流输电技术、直流电网、交直流电力系统分析与控制等方向研究。作为技术骨干参与国家重点研发计划项目 3 项、国家自然科学基金联合基金项目 1 项、横向科研项目 4 项，发表 SCI/EI 期刊论文 20 余篇，授权发明专利 1 项。

Wang Tuo, Lecturer and Master’ s Supervisor with the School of Electrical Engineering, Northeast Electric Power University. His research interests include novel DC transmission technologies, DC grids, and AC/DC power system operation and control. As a key technical member, he has participated in 3 National Key R&D Program projects, 1 Joint Fund Project of the National Natural Science Foundation of China, and 4 horizontal research projects. He has published more than 20 SCI/EI journal papers and been granted 10 invention patents



冯谟可，重庆大学讲师，长期从事新型电力系统电磁暂态建模与仿真、大型变压器电磁暂态安全防御研究。主持国家自然科学基金项目 1 项、智能电网国家重大专项子课题 2 项，参与国家自然科学基金项目以及国网南网科技项目 10 余项，发表 SCI/EI 论文 30 余篇（第一/通讯作者 18 篇），获省部级奖励 1 项。

Moke Feng is a Lecturer at Chongqing University. His research focuses on electromagnetic transient modeling and simulation of emerging power systems, as well as the protection of large power transformers against electromagnetic transients. He has led one project funded by the National Natural Science Foundation of China (NSFC) and two subprojects under the National Science and Technology Major Project on Smart Grids. He has also participated in more than ten NSFC-funded projects and research projects sponsored by the State Grid Corporation of China and China Southern Power Grid. He has published over 30 SCI/EI-indexed papers, including 18 as first or corresponding author, and has received one provincial/ministerial-level award.



刘志江，南方电网科学研究院三级拔尖专业技术专家，长期从事（特）高压直流及柔性直流控制保护仿真技术、直流工程运行与控制技术研究，作为核心成员参与乌东德电站送电广东广西特高压多端直流示范工程、滇西北至广东±800 千伏特高压直流工程、三峡阳江青洲五、青洲七海上风电柔直送出工程等重大直流工程的技术攻关与仿真试验研究，并作为仿真试验负责人组织开展鹏城、东方、纵江等大容量 STATCOM 工程、220kV 天河棠下柔直背靠背工程的仿真试验。授权发明专利 19 项，发表学术论文 6 篇，参与出版专著 1 部、制定 IEEE 国际标准 1 项。获电力科技创新大奖、南方电网公司科技进步二等奖等奖项。

Zhijiang Liu is a Level III Leading Technical Expert at the Electric Power Research Institute of China Southern Power Grid. His research focuses on simulation technologies for the control and protection of high-voltage and ultra-high-voltage direct current (HVDC/UHVDC) and voltage-source-converter-based HVDC (VSC-HVDC) systems, as well as HVDC system operation and control. As a core team member, he has contributed to technical research and simulation testing for major HVDC projects, including the Wudongde Hydropower Station UHV Multi-Terminal DC Transmission Demonstration Project to Guangdong and Guangxi, the Northwestern Yunnan – Guangdong ±800 kV UHVDC Project, and the VSC-HVDC transmission projects for the Three Gorges Yangjiang Qingzhou V and Qingzhou VII offshore wind farms. He has also led simulation testing for large-capacity STATCOM projects, including Pengcheng, Dongfang and Zongjiang, and the 220 kV Tianhe Tangxia VSC-HVDC Back-to-Back Project. He holds 19 granted invention patents, has published six academic papers, contributed to one technical monograph, and participated in the development of one IEEE international standard. His honors include the Grand Prize for Electric Power Science and Technology Innovation and the Second Prize for Science and Technology Progress of China Southern Power Grid.



翟凯，北京四方继保工程技术有限公司系统测试部高级技术经理，从事 RTDS 仿真测试工作十余年，承担新技术、新领域仿真及测试技术研发，具备动模自动测试系统及辅助工具的设计与开发能力，发表相关研究学术论文 4 项、专利 5 项，曾获得海淀园经济技术创新标兵称号。担任 2030 国重新能源高渗透率电网多层级控制与保护协同关键技术及装备课题 5 任务负责人，负责课题任务和试制装备的组织实施。

Kai Zhai is Senior Technical Manager of the System Testing Department, Sifang Automation Co., Ltd. He has been engaged in RTDS simulation testing for more than ten years and undertakes R&D of simulation and testing technologies in new technologies and new fields. He is capable of designing and developing dynamic simulation automatic test systems and auxiliary tools. He has published 4 related academic papers and 5 patents. He serves as the Task Leader of Task 5 of the project “Key Technologies and Equipment for Multi-Level Control and Protection Coordination of High-Penetration Renewable Energy Power Grids” under the 2030 National Key R&D Program, and is responsible for organizing and implementing the project tasks and trial-manufactured equipment.

分论坛六：低压直流技术



赵晋斌，教授（二级）、博士生导师，上海市东方学者特聘教授、浦江计划学者。中国电工技术学会理事，IEEE PES 直流电力系统技术委员会（中国）低压直流技术分委会常务理事，中国电源学会直流电源专业委员会副主任委员，上海市电源学会理事，《电力系统保护与控制》、《智慧电力》编委。主要从事电力电子装置拓扑与控制、无线电能传输、新能源并网及稳定性、构网型储能主动支撑电网，以及 AI 注意力机制赋能构网型储能控制等研究。发表高水平学术论文 200 余篇，主持国家自然科学基金面上项目 3 项，上海市重点科技攻关等项目 20 余项；获上海市技术发明奖二等奖 2 项、三等奖 1 项，上海市科学技术进步奖二等奖 1 项；获国内外授权发明专利 65 项以上

Jinbin Zhao is a Professor (Grade II) and Ph.D. supervisor at Shanghai University of Electric Power, a Distinguished Professor under the Shanghai Oriental Scholar Program and a Pujiang Program scholar. He is a council member of the China Electrotechnical Society, a standing council member of the Low-Voltage DC Subcommittee of the IEEE PES DC Power System Technical Committee (China), vice chairman of the DC Power Supply Committee of the China Power Supply Society, a council member of the Shanghai Power Supply Society, and an editorial board member of Power System Protection and Control and Smart Power. His research covers the topology and control of power electronic converters, wireless power transfer, grid integration and stability of renewable energy, grid-forming energy storage for active grid support, and AI attention mechanisms for grid-forming energy storage control. He has published more than 200 peer-reviewed papers and led three General Programs of the National Natural Science Foundation of China along with more than 20 other projects including key science and technology programs of Shanghai. He has received two Second Prizes and one Third Prize of the Shanghai Technological Invention Award and one Second Prize of the Shanghai Science and Technology Progress Award, and holds more than 65 authorized invention patents in China and abroad.



孙冬梅，高级工程师，现任深圳市建筑科学研究院股份有限公司高级技术经理。长期从事零能耗建筑、零碳建筑、光储直柔及新型能源系统规划研究与咨询工作，作为课题负责人或技术骨干承担国家级、省部级及市级科研课题 26 项，参编国家、行业及地方相关标准 9 项，发表学术论文 20 余篇，主持或参编专著 3 项，作为能源专业负责人承担绿色低碳城市及新型能源系统规划 20 余项，获得省、市级优秀城乡规划设计项目奖、科技创新项目奖 10 项。

Sun Dongmei, Senior Engineer, currently serves as Senior Technical Manager at Shenzhen Institute of Building Research Co., Ltd. She has long been engaged in research and consulting on zero-energy buildings, zero-carbon buildings, PEDF (Photovoltaic, Energy Storage, Direct Current and Flexibility) systems, and new energy system planning. As a principal investigator or key technical member, she has undertaken 26 national, provincial and municipal research projects. She has participated in the compilation of 9 national, industrial and local standards, published more than 20 academic papers, and authored/co-authored 3 monographs. As the lead energy specialist, she has delivered over 20 planning projects for green low-carbon cities and new energy systems, and won 10 provincial and municipal awards for outstanding urban-rural planning design and scientific and technological innovation.



杨超博士，英国纽卡斯尔大学电气工程专业，现任香港应用科技研究院总监，负责智慧能源系统（Smart Power & Energy System）方向的研发及管理工作。IET（英国工程技术学会） CEng 皇家特许工程师、教授级高级工程师。发表论文 27 篇，拥有国内外 32 项授权专利。累计主持参与项目近 30 项，科研经费近亿元。

杨超博士 2010 年博士毕业归国先后就职与西门子中国研究院，ABB 中国研究院，负责电力场站测量及保护装置研发，柔性直流输配电系统及可再生能源，储能柔性并网的新型电力系统研究。2016 年加入清华大学电机系/能源互联网研究院，先后担任直流技术中心副主任、能源互联网试验检测中心主任，完成针对直流电网应用的中大功率电力电子装置研发，以及实验检测中心的建设管理工作。2023 年初加入香港应用科技研究院，研发方向为第三代半导体器件在新型电力系统、新兴直流大功率负荷、储能中的应用及能源数字化 AI 应用等领域。

Dr Chao Yang holds a PhD in Electrical Engineering from Newcastle University, UK. He is currently a Director at the Hong Kong Applied Science and Technology Research Institute (ASTRI), overseeing research, development and management of smart energy systems. He is a Chartered Engineer (CEng) registered through the Institution of Engineering and Technology (IET) and a Professor-level Senior Engineer. He has published 27 papers, holds 32 granted patents in China and internationally, and has led or contributed to nearly 30 research projects.

Previously, Dr Yang held positions at Siemens Corporate Technology China, ABB Corporate Research China and Tsinghua University. His research spans flexible DC transmission and distribution, power electronics, and grid integration of renewable energy and energy storage. His current work focuses on wide-bandgap semiconductor applications in next-generation power systems, AI data centre power supplies and energy storage, alongside energy digitalisation and AI applications.

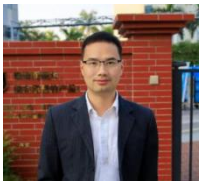


赵志刚，格力电器新能源环境技术研究院院长，国创能源互联网创新中心（广东）有限公司总经理，中国电源学会理事，广东省分布式能源互联网创新应用联盟秘书长，IEEE PES LVDC 常务副主席，中国通信学会短距无线通信专委会委员，教授级高工。 先后参与和负责中央空调变频化及光伏储空调系统等创新研发和产业孵化工作。主持研制的光储直流化空调系统现已推广用于全球 35 个国家和地区；参与和负责的项目多次获得“国际领先”鉴定和省部级奖励，核心专利“光伏直驱系统及其控制方法”获得 2018 年度中国发明专利金奖；发表论文 8 篇，其中 SCI 核心 2 篇，牵头制订 7 项标准，其中 2 项 IEC 国际标准。和海内外科研产业机构建立起频繁交流与合作，领导和培养起一支以博士、硕士研究生为主体的跨专业复合团队，致力于光储直柔系统及直流化技术研究与产业化孵化工作。

He currently serves as President of the New Energy and Environmental Technology Research Institute of Gree Electric Appliances, Inc. of Zhuhai, and General Manager of Guochuang Energy Internet Innovation Center (Guangdong) Co., Ltd. He is also a Director of the China Power Supply Society (CPSS), Secretary-General of the Guangdong Provincial Distributed Energy Internet Innovation and Application Alliance, Executive Vice Chair of the IEEE PES Low-Voltage Direct Current (LVDC) Technical Subcommittee, and a Member of the Short-Range Wireless Communication Technical Committee of the China Institute of Communications (CIC). He holds the professional title of Professor-level Senior Engineer.

He has successively participated in and led the research, development, and industrial incubation of innovative technologies including variable-frequency central air conditioning and PV-storage integrated air conditioning systems. The DC-based PV-storage air conditioning system developed under his leadership has now been deployed in 35 countries and regions worldwide. Projects he has undertaken or led have repeatedly been appraised as "internationally leading" and have received multiple provincial and ministerial-level awards. His core patent, *"PV Direct-Drive System and Control Method Thereof,"* was awarded the China Patent Gold Award in 2018. He has published eight papers, two of which appeared in SCI-indexed journals, and has led the formulation of seven standards, including two IEC international standards.

He has established extensive exchanges and cooperation with research institutions and industrial partners at home and abroad, and has built and mentored an interdisciplinary team composed mainly of PhD and master's degree holders. He is dedicated to the research, industrialization, and incubation of PV-storage-DC-flexible (PEDF) systems and DC-enabling technologies.



袁金荣，高级工程师，国创能源互联网创新中心（广东）有限公司总经理助理，IEEE PES 直流电力系统技术委员会（中国）低压直流技术分委会常务理事、中国建筑节能协会光储直柔专委会委员、SAC/TC212 WG11 直流控制器工作组副组长。致力于近用户侧能源互联网源网荷储规划技术、机电设备直流化技术等研究及工程应用工作。发表论文 8 篇，授权发明专利 30 项，主要参与国家、省部级项目 4 项，曾入选学术精要高 PCSI 论文，获中国专利优秀奖、江西省专利奖，“国际领先”项目鉴定等。

Senior Engineer, Assistant General Manager of NATIONAL ENERGY INTERNET INNOVATION CENTER (GUANGDONG) .,LTD, Executive Director of the Low Voltage Direct Current Technology Subcommittee, IEEE PES Direct Current Power System Technical Committee (China), Member of the China Building Energy Conservation Association's PEDF Committee, and Vice Chair of the SAC/TC212 WG11 Direct Current Controller Working Group. Committed to research and engineering applications in energy internet planning technology for sources, networks, and storage near the user side, and direct current technology for mechanical and electrical equipment. Authored 8 papers, holds 30 authorized invention patents, and has been mainly involved in 4 national and provincial-level projects. Was once selected for the Academic Essential High PCIS paper, won the China Patent Excellence Award, Jiangxi Province Patent Award, and "International Leading" project appraisal, etc.

分论坛七：直流系统规划与设计



李清，工学博士，主要从事直流工程输电规划方面研究工作，参与了多个直流输电工程可行性研究论证。

Doctor of Engineering,mainly focuses on HVDC transmission planning, participated in the feasibility study and demonstration of multiple HVDC projects.



牛涛，分别于 2014、2019 年在清华大学获得电气工程学士、博士学位。并于 2019 年 7 月加入重庆大学电气工程学院，担任研究员。研究方向包括含大规模新能源的新型交直流电力系统无功电压控制、优化规划、稳定分析，及储能设备/系统的状态监测和能量管理等。IEEE 高级会员，中国电工技术学会高级会员，《山东电力技术》青年编委，《Energy Internet》期刊编委等职，近 5 年主持国家自然科学基金 2 项、重庆市自然科学基金、电网优化运行相关的横向项目 15 项，发表 50 余篇 IEEE/IET/Elsevier/CSEE/MPCE 系列期刊 SCI 论文。

Dr. Tao Niu received his B.S. degree and Ph.D degree from Tsinghua University in 2014 and 2019, respectively. Since July 2019, he joined Department of Electrical Engineering, Chongqing University as a researcher. His research interests include voltage/var control, optimization and planning, stability analysis of new type power system with large-scale renewable power penetration, he also focuses on the energy storage system state monitoring, management and optimization. Dr. Tao Niu is IEEE Senior Member, China Electrotechnical Society (CES) Senior Member, also served as the editor of Shandong Electrical Power Technologies and Energy Internet. In recent 5 years, he hosts more than 20 other power system optimization/stability analysis-related projects including two NSFC projects, published more than 50 SCI papers in IEEE/IET/Elsevier/CSEE/MPCE journals.



余建峰，博士，国网重庆电科院电网技术中心专责。从事电力电子设备并网分析、特高压调试等技术研究。主持省部级基金 1 项，发表 EI 及以上论文 10 余篇，授权发明专利 7 项。

Yu Jianfeng, Ph.D., is a specialist at the Power Grid Technology Center of State Grid Chongqing Electric Power Research Institute. His research interests include grid-connected analysis of electronic equipment, UHV (Ultra-High Voltage) commissioning and etc. He has presided over 1 provincial fund project, and published more than 10 papers with EI or above, and applied for 7 invention patents.



路文超，西安理工大学讲师、智能电力系统研究室副主任，长期从事电力设备/传感器电磁暂态信号计算、极端电磁环境测量、复杂信号特征分析及效应评估等研究。现任 IEEE 3761.1 工作组秘书，为陕西省“秦创原”电磁抗扰技术研发与应用“科学家+工程师”队伍骨干。主持/参与国家自然科学基金项目和国家电网总部项目等 20 余项，参与 4 项传感器、电力设备相关 IEEE 国际标准和行业标准的起草编制。发表 SCI/EI 论文 30 余篇（第一作者/通讯作者 13 篇），授权国家发明专利 8 项、软件著作权 3 项，获省部级奖励 3 项。

Wenchao Lu is a Lecturer at Xi’an University of Technology and Deputy Director of the Intelligent Power Systems Research Laboratory. His research focuses on the computation of electromagnetic transient signals in power equipment and sensors, measurement in extreme electromagnetic environments, complex signal feature analysis, and effect evaluation. He currently serves as Secretary of the IEEE 3761.1 Working Group and is a key member of the “Scientist + Engineer” team for electromagnetic immunity technology research and application under Shaanxi Province’s Qinchuangyuan Innovation-Driven Platform. He has led or participated in more than 20 research projects, including projects funded by the National Natural Science Foundation of China and State Grid

Corporation of China. He has also participated in the development of four IEEE international and industry standards related to sensors and power equipment. He has published more than 30 SCI/EI-indexed papers, including 13 as the first or corresponding author, holds 8 granted national invention patents and 3 software copyrights, and has received 3 provincial- or ministerial-level awards.



方重凯，男，1998 年生。2026 年毕业于同济大学控制科学与工程专业获博士学位，现于上海电力大学任讲师。主要研究方向为电力电子化电力系统的建模、控制与保护。近年以第一作者/通讯作者身份发表 SCI/EI 期刊论文 7 篇，其中中科院 1 区 TOP 论文 3 篇，获发明专利授权 2 项。现任 IEEE Transactions on Power Delivery，IEEE Transactions on Industrial Informatics 等期刊审稿人。

Chongkai Fang (male), born in 1998, received the Ph.D. degree in Control Science and Engineering from Tongji University, Shanghai, China, in 2026. He is currently a lecturer at Shanghai University of Electric Power. His main research interests include the modeling, control, and protection of power systems with high power-electronics penetration. In recent years, he has published seven SCI/EI-indexed journal papers as first/corresponding author, three of which were published in Tier 1 journals of the Chinese Academy of Sciences journal ranking. He has also been granted two invention patents. He currently serves as a reviewer for journals including IEEE Transactions on Power Delivery and IEEE Transactions on Industrial Informatics.



赵西贝，博士，现任华北电力大学电气与电子工程学院副教授，硕士生导师，入选第十届中国科协青年人才托举计划，获得《中国电机工程学报》年度优秀作者，中国电机工程学会优秀论文一等奖，中国知网高被引论文、高被引作者等。多次组织学生参加学科竞赛获奖，获得第九届直流输电与电力电子创新杯大赛二等奖，第一届新能源与储能协同发展创新大赛二等奖，第三届高校电气电子工程创新大赛全国一等奖，第七届“中国中车”杯中国大学生可再生能源作品竞赛一等奖。主要研究方向为直流电网的运行与保护装备、新能源基地汇集外送方案、高压直挂储能系统的控制与装备等。

Zhao Xibei, Ph.D., currently serves as Associate Professor and Master's Supervisor at the School of Electrical and Electronic Engineering, North China Electric Power University. He has been selected for the 10th Young Talent Support Program of the China Association for Science and Technology, received the Annual Outstanding Author Award from Proceedings of the CSEE, the First Prize for Excellent Papers from the Chinese Society for Electrical Engineering, and has been recognized as a Highly Cited Author and contributor of Highly Cited Papers by CNKI.

五、赞助单位

山东科汇电力自动化股份有限公司

山东科汇电力自动化股份有限公司（简称：科汇股份，证券代码：688681）地处鲁中工业名城淄博，在济南、青岛、上海和英国伦敦设有子公司，在北京、上海、广州、成都、福州等十余个城市设有销售、服务中心。

致力于电力线路故障监测与自动化新技术、高能效磁阻电机驱动技术以及储能智能控制与微电网技术的研发与产业化。拥有一支以徐丙垠教授为学术带头人，博士、硕士为主的专业研发团队，产学研氛围浓厚，科研环境优良。先后承担了多项国家 863 计划重大专项子课题、国家重点新产品计划和省自主创新成果转化重大专项等科技计划项目；获得国家技术发明二等奖 1 项、四等奖 1 项和省部级技术发明奖、科技进步奖 16 项，拥有形成核心技术及主营产品的国内外专利 87 项，出版专著 4 部。

科汇股份产品广泛应用于电力系统、铁路系统、厂矿企业和终端用户，遍布全国各地、2025 年远销海外 18 个国家和地区。国内第一条 1000kV 特高压输电线路、第一条±800kV 直流输电线路和阿根廷国家电网公司输电线路故障行波测距工程；国家电网第一批配电自动化试点城市杭州、厦门配电终端工程；国内第一条时速 250km 客运专线“合宁铁路”电力远动工程；国内外单机功率最大的 630kW 开关磁阻电机驱动系统（2022 年）应用于 8000 吨电动螺旋压力机工程等典型案例，均获得用户一致好评。

开启新时代，踏上新征程。秉承“以人为本、用户至上、不断改进、持续发展”的经营理念，坚守“科创筑梦、汇才兴业”的初心，科汇股份持续为用户奉献智能电网与电气驱动创新解决方案。

Shandong Kehui Power Automation Co., Ltd. (Kehui, Stock Code: 688681) is located in Zibo, an industrial city in central Shandong Province. It has subsidiaries in Jinan, Qingdao, Shanghai and London, UK, as well as sales and service centers in more than ten cities including Beijing,

Shanghai, Guangzhou, Chengdu and Fuzhou.

The company focuses on the R&D and industrialization of new technologies for power line fault monitoring and automation, high-efficiency reluctance motor drive, intelligent energy storage control and microgrid technologies. It boasts a professional R&D team led by Professor Xu Bingyin and mainly composed of doctors and masters, with a strong industry-university-research atmosphere and excellent research environment. It has successively undertaken multiple sub-projects of major special projects under the National 863 Program, the National Key New Product Program and major special projects for the transformation of provincial independent innovation achievements. The company has won 1 Second Prize and 1 Fourth Prize of the National Technological Invention Award, together with 16 provincial and ministerial awards for technological invention and scientific and technological progress. It owns 87 domestic and foreign patents covering its core technologies and main products, and has published 4 monographs.

Kehui’s products are widely used in power systems, railway systems, industrial and mining enterprises and end users across China. In 2025, its products were exported to 18 countries and regions. Representative projects include China’s first 1000kV UHV transmission line, the first ±800kV DC transmission line, the traveling wave fault location project for the transmission lines of Argentina’s national grid, distribution terminal projects in Hangzhou and Xiamen, the first batch of pilot cities for State Grid distribution automation, the power telecontrol project of the Hefei-Nanjing Passenger Dedicated Line, China’s first 250 km/h passenger railway line, and the 630kW switched reluctance motor drive system (the largest single-unit power capacity worldwide in 2022) applied to the 8000-ton electric screw press project. All these benchmark projects have received favorable feedback from customers.

Embarking on a new journey in the new era, Kehui adheres to the business philosophy of “People-oriented, Customer-first, Continuous Improvement and Sustainable Development”, and stays true to its original aspiration of “Technology for Dreams, Talents for Development”. The company keeps providing innovative solutions for smart grids and electric drive systems for customers.

六、会议须知

■ 参会安排

请参会人员提前15分钟进入会场。开会时遵守并保持会场秩序，手机请调至静音或关闭。

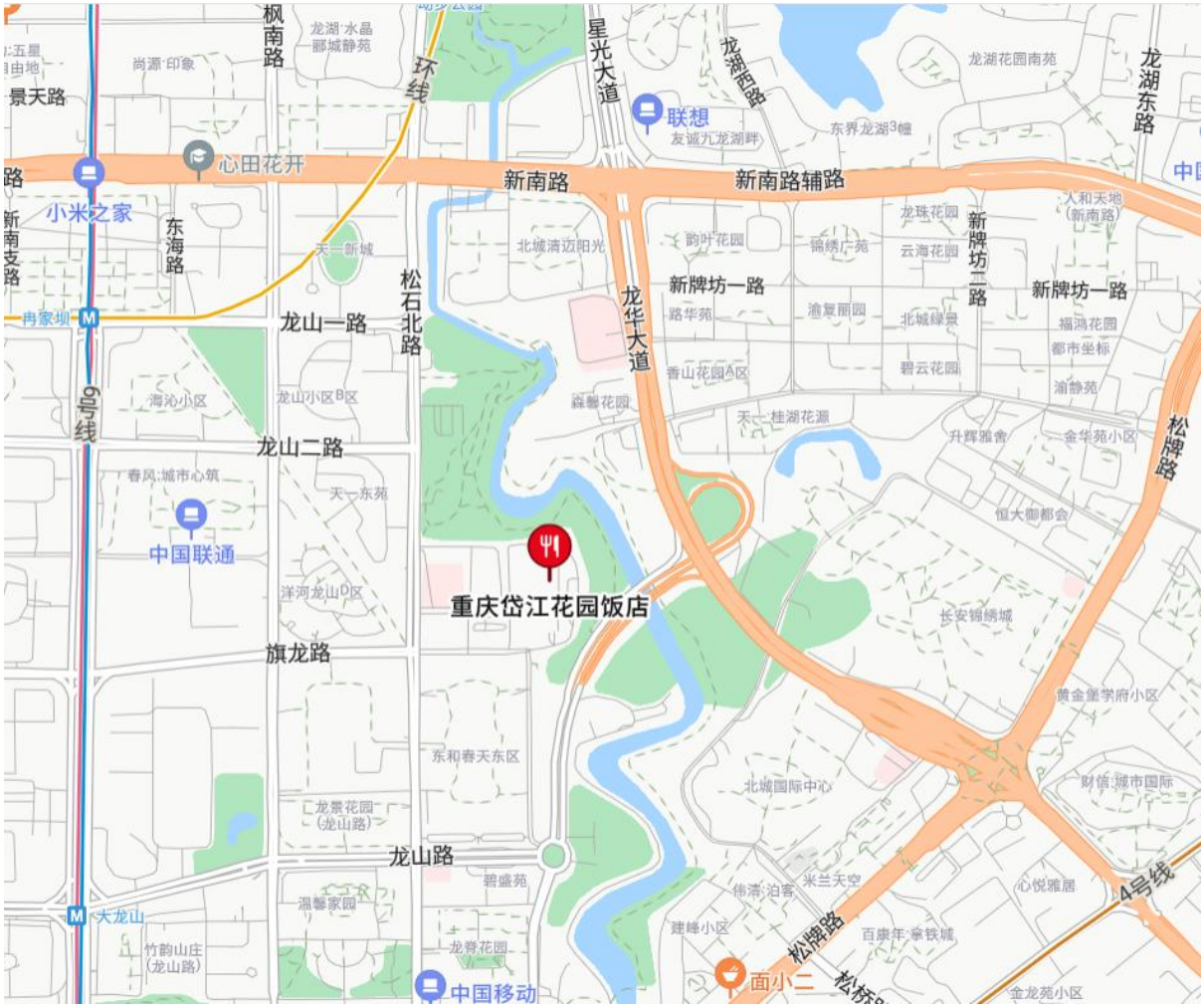
■ 时间及地点

报到时间：11月20日 14:00-22:00

报到地点：重庆岱江花园饭店

会议时间：11月21日-11月22日

会议地址：重庆市两江新区龙山街道旗龙路2号, 400010



■ 交通方式

1. 重庆江北国际机场

距离约24公里

A. 出租车（推荐）：约30分钟；约52元人民币

B. 地铁：约1小时30分钟

乘坐轨道交通10号线（兰花路方向）➞ 在江北机场T3站上车 ➞ 在重庆北站北广场站下车 ➞ 换乘轨道交通4号线（顺水寺公园方向） ➞ 在龙溪站下车（1C口出） ➞ 步行25分钟至酒店

2. 重庆站

距离约9.5公里

A. 出租车：约17分钟；约30元人民币

B. 地铁：约1小时10分钟

步行25分钟至轨道交通3号线➞ 在两路口站上车（江北机场T2航站楼方向） ➞ 在红旗河沟站换乘轨道交通6号线（北碚方向）➞ 在大龙山站下车（2B口） ➞ 步行17分钟至酒店

3. 重庆东站

距离约31公里

A. 出租车：约40分钟；约 72 元

B. 地铁：约1小时10分钟

乘轨道交通6号线东站段（刘家坪方向），在重庆东站站上车 ➞ 在刘家坪站下车 ➞ 换乘轨道交通6号线 ➞（往北碚方向）在大龙山站下车（2B口） ➞ 步行17分钟至酒店

4. 重庆西站

距离约17.5公里

A. 出租车：约30分钟；约41元

B. 地铁：约50分钟

乘坐轨道交通5号线（悦港北路方向），在重庆西站站上车 → 在大龙山站下车（2B口） → 步行17分钟至酒店

5. 重庆南站

距离约15公里

A. 出租车：约30分钟；约35元

B. 地铁: 约1小时10分钟

乘坐轨道交通18号线（往富华路方向），在黄桷坪站上车→ 在歇台子站下车 （站外换成需重新购票）→ 换乘轨道交通5号线（悦港北路方向），在大龙山站下车（2B口） → 步行17分钟至酒店

6. 重庆北站

距离约30公里

A. 出租车：约50分钟；约70元人民币

B. 地铁：约1小时28分钟

乘坐轨道交通环线（民安大道方向）→ 在重庆北站南广场站上车 → 在冉家坝下车（8号口） → 步行17分钟至酒店

■ 会议用餐

日期		地点	时间	备注
11月20日	晚餐	主楼2楼银杏厅	18:00-20:30	自助餐
11月21日	午餐	主楼2楼银杏厅	12:00-14:00	自助餐
	晚餐	主楼2楼银杏厅	17:30-19:30	自助餐
11月22日	午餐	副楼1楼芭罗莎厅	12:00-14:00	自助餐

■ 联系方式

1.参会咨询

北京掘视科技有限公司：高老师18600134976（微信同号）

2.缴费及发票咨询

北京掘视科技有限公司：高老师18600134976（微信同号）

3.酒店住宿咨询

重庆岱江花园饭店：高老师18600134976（微信同号）

【温馨提示】

1.会议结束后请参会代表听从工作人员的指引有序退场。

2.会议期间重庆市天气情况：

周五（11月20日）	晴朗	8℃/16℃
周六（11月21日）	晴转阴	9℃/17℃
周日（11月22日）	阴转多云	-2℃/7℃

■ 会场平面图

重庆岱江花园酒店

