

6th ICIPS 2026

2026 6th International Conference on Intelligent Power and Systems

Conference Manual

October 24-26, 2026

Dalian, China



大连理工大学
DALIAN UNIVERSITY OF TECHNOLOGY

- 指导单位: IEEE Power & Energy Society
- 主办单位: 大连理工大学
- 协办单位: 上海远宽能源科技有限公司
南京瑞途优特信息科技有限公司
安徽芒课教育科技有限公司





2026 6th International Conference on Intelligent Power and Systems

Conference Schedule

Day 1: October 24, 2026 (GMT+8) Saturday		
10:00-22:00	Onsite Sign-in 现场签到	First-Floor Lobby, Hi-Chance Science & Tech. Center 海创一楼大厅
18:00-20:00	Dinner 晚餐	First-Floor Dining Hall, Hi-Chance Science & Tech. Center 海创一楼餐厅
Day 2: October 25, 2026 (GMT+8) Sunday		
Opening Ceremony 开幕式		
Location: Hai Chance Ball Room (3F) 地点: 三楼海创厅		
Host: Weixing Li, Dalian University of Technology, China		
09:00-09:20	Welcome Message Representative of Dalian University of Technology	
	Welcome Message Representative of State Grid Liaoning Electric Power Co., Ltd. Dalian Power Supply Company	
	Group Photo	
Keynote Speeches 主旨报告		
Location: Hai Chance Ball Room (3F) 地点: 三楼海创厅		
Host: Ziming Yan, Dalian University of Technology, China		
09:20-09:50	Whole-Process Power Balance and Frequency Control with Multi-time Scales for the Northeast Power Grid with High Penetration of Renewables Zhen Huang (State Grid Corporation of China Northeast Branch, China)	
09:50-10:00	Coffee Break	
10:00-10:30	Wide Area EMT Simulation for Modern Intelligent Power Systems Yi Zhang (RTDS Technologies Inc., Canada)	
10:30-11:00	Intelligent Control of Renewable Energy System: Towards Next-Generation Power System Hua Geng (Tsinghua University, China)	
11:00-11:30	Stabilizing Converter-Grid Interactions: Across Renewable Generation to Data Centers Xiongfei Wang (Tsinghua University, China)	
11:30-12:00	Coordinated Operation and Planning of Distributed Energy Resources in Microgrids Yan Xu (Nanyang Technological University, Singapore)	
Panel Sessions 专题论坛		
13:30-18:00	Session 1: Modeling and Real-Time Simulation Technologies of New-type Power Systems 分论坛1: 新型电力系统建模与实时仿真技术	三楼海创厅B Hai Chance Ball Room B (3F)
13:30-15:30	Session 2: Frequency Control in Power Systems with High Renewable Penetration 分论坛2: 高比例新能源电力系统频率控制	三楼慕尼黑黑厅 Munich Room (3F)



2026 6th International Conference on Intelligent Power and Systems

15:50-17:50	Session 3: Transient Stability Analysis and Control of New-Type Power Systems 分论坛3: 新型电力系统的暂态分析与稳定控制	
13:30-15:30	Session 4: Grid-Forming Control and Stability in Renewable Energy Systems 分论坛4: 新能源系统构网控制与稳定	三楼苏格兰厅 Scotland Room (3F)
15:50-17:50	Session 5: Control and Optimization of VSC-HVDC Systems 分论坛5: 柔性直流系统的控制与优化	
13:30-15:50	Session 6: Autonomous Agentic Intelligence Paradigms for Operation and Control of New-Type Power Systems 分论坛6: 新型电力系统自主智能体驱动的运行与控制范式	五楼中关村厅 Zhongguancun Room (5F)
16:00-18:00	Session 7: Digital-Intelligent Methods and Paradigms for Stability Identification and Resilience Enhancement of New-type Power Systems 分论坛7: 新型电力系统稳定判别与韧性提升的数智化方法与范式	
13:30-15:50	Session 8: AI-Enabled Coordination of Distributed Energy Resources and Virtual Power Plants 分论坛8: 面向分布式能源与虚拟电厂协同运行的人工智能方法	五楼卡尔顿厅 Carleton Room (5F)
16:00-18:00	Session 9: Collaborative Control and Optimal Operation of Energy Interconnection Systems 分论坛9: 能源互联系统的协同控制与优化运行	
13:30-15:50	Session 10: Planning and Operation of New-Type Power Systems 分论坛10: 新型电力系统规划与运行	五楼奥斯汀厅 Austin Room (5F)
16:00-18:00	Session 11: Security Risk Management and Market Operation of New-Type Power Systems 分论坛11: 新型电力系统安全风险管控与市场运行	
14:00-17:20	Session 12: Coordinated Voltage Security and Stability Control for New-type Power Systems 分论坛12: 新型电力系统电压安全稳定协同控制	五楼基斯塔厅 Kista Room (5F)
Poster Sessions 海报展示		
13:30-18:00	Paper Poster Session 1 海报展示1	三楼大厅 Lounge Hall (3F)
	Paper Poster Session 2 海报展示2	五楼大厅 Lounge Hall (5F)
Welcome Banquet & Awards Ceremony 欢迎晚宴&颁奖典礼		
18:30-20:30	Welcome Banquet & Awards Ceremony Hai Chance Ball Room (3F) 欢迎晚宴&颁奖典礼 三楼海创厅	



2026 6th International Conference on Intelligent Power and Systems

Day 3: October 26, 2026 (GMT+8) Monday

Oral Session | 口头报告

08:30-11:30	Paper Oral Presentation 论文口头报告	五楼奥斯汀厅 Austin Room (5F)
--------------------	--	--

Technical Tour | 技术参观

09:00-11:00	Technical Tour in Experimental Center, School of Electrical Engineering, Dalian University of Technology, China 大连理工大学电气工程学院实验中心
--------------------	--



2026 6th International Conference on Intelligent Power and Systems

Panel Sessions

Session 1 (Hai Chance Ball Room B 海创B厅, 3F)

Modeling and Real-Time Simulation Technologies of New-type Power Systems

October 25, 2026 (GMT+8) Sunday | 13:30-18:00

Moderator 1: Haoran Zhao, Shandong University

Moderator 2: Jianzhong Xu, North China Electric Power University

Time	Title	Speaker
13:30-13:55	Invited Speech 1 Key Technologies for Real-Time Simulation of Solid-State Transformer (SST) for AI Data Centers	Guanjun Xu Shanghai Modeling Energy Technology Co., Ltd
13:55-14:20	Invited Speech 2 Efficient Electromagnetic Transient Modeling and Real-Time Simulation for Large-Scale PV Power Plants	Jianzhong Xu North China Electric Power University
14:20-14:45	Invited Speech 3 Numerical Stability Analysis and Enhancement Technology for Zoned Electromagnetic Transient Simulation of Wind Farms	Bing Li Shandong University
14:45-15:10	Invited Speech 4 Small-Time-Step Real-Time Simulation of Power Electronic Systems: Co-Design of Model, Algorithm and Architecture with Typical Applications	Jin Xu Shanghai Jiao Tong University
15:10-15:35	Invited Speech 5 Fast Electromagnetic Transient Simulation Method Based on State Matrix Splitting	Xiaopeng Fu Tianjin University
15:35-15:55	Coffee Break	
15:55-16:20	Invited Speech 6 Theory and Practice of Wind Power Digital Twin	Haoran Zhao Shandong University
16:20-16:45	Invited Speech 7 Application of Real-Time Simulation in Liaoning Power Grid	Guangyu Sun Liaoning Electric Power Research Institute
16:45-17:10	Invited Speech 8 Structured EMT Modeling and Lightweight Simulation Technologies for Renewable Power Generation Systems	Pupu Chao Dalian University of Technology
17:10-17:35	Invited Speech 9 Black-box Modeling of Aircraft DC Power Distribution Systems Based on Power Module Testing	Zhengge Chen Southwest Jiaotong University
17:35-18:00	Invited Speech 10 Simulation Analysis and Mitigation Strategies of Grid Oscillations in DFIG Wind Power Integration	Jiaming Chen Shenzhen Hopewind Corporation Limited



2026 6th International Conference on Intelligent Power and Systems

Session 2 (Munich Room 慕尼黑厅, 3F)

Frequency Control in Power Systems with High Renewable Penetration

October 25, 2026 (GMT+8) Sunday | 13:30-15:30

Moderator 1: Lei Chen, Tsinghua University

Moderator 2: Zaiyu Chen, Nanjing University of Science and Technology

Time	Title	Speaker
13:30-13:50	Invited Speech 1 Research on Frequency Stability and Multi-Unit Cooperative Control of Virtual Synchronous Generators	Yichen Zhou North China Electric Power University
13:50-14:10	Invited Speech 2 Frequency Security Early-Warning and Active Defense System for Large-Scale Renewable Grid Integration	Qiang Zhang State Grid Liaoning Electric Power Research Institute
14:10-14:30	Invited Speech 3 Short-term Frequency Support Control of Wind Turbines Utilizing Rotor Kinetic Energy	Zaiyu Chen Nanjing University of Science and Technology
14:30-14:50	Invited Speech 4 Thermodynamic Modeling and Frequency Regulation Capability Monitoring and Assessment of Thermal Power Units for Power System Frequency Analysis	Ling Hao Tsinghua University
14:50-15:10	Invited Speech 5 Frequency Security Analysis and Control of Power Systems Under Complex Power Disturbances	Weidong Li Dalian University of Technology
15:10-15:30	Invited Speech 6 From Frequency Regulation to Fixed Frequency	Lei Chen Tsinghua University
15:30-15:50	Coffee Break	

Session 3 (Munich Room 慕尼黑厅, 3F)

Transient Stability Analysis and Control of New-Type Power Systems

October 25, 2026 (GMT+8) Sunday | 15:50-17:50

Moderator 1: Dawei Zhao, Nanjing University of Science and Technology

Moderator 2: Yuxi Liu, NARI Technology Co., Ltd.

Time	Title	Speaker
15:50-16:10	Invited Speech 1 Research and Application of Integrated Grid-Connection Control Technology for Renewable Power Stations	Yuxi Liu NARI Technology Co., Ltd.
16:10-16:30	Invited Speech 2 Key Technologies for Voltage-Source-Oriented Transient Synchronous Stability Control of Energy Storage Converters	Xu Zhou Tianjin University



2026 6th International Conference on Intelligent Power and Systems

16:30-16:50	Invited Speech 3 Interpretable Intelligent Assessment Method for Power System Transient Stability Oriented to Trustworthy Decision-Making	Jiacheng Liu Xi'an Jiaotong University
16:50-17:10	Invited Speech 4 First-Principles-Inspired Understanding and Source Localization of Broadband Forced Oscillations	Deyou Yang Harbin University of Science and Technology
17:10-17:30	Invited Speech 5 Preliminary study on emergency control strategy for receiving-end power grid with large-scale renewable energy integration and multi-infeed DC	Dawei Zhao Nanjing University of Science and Technology
17:30-17:50	Invited Speech 6 Coordinated Stability Control for Desert-Gobi-Wasteland Renewable Energy Bases and HVDC Transmission	Chenbo Su North China Electric Power University

Session 4 (Scotland Room 苏格兰厅, 3F)

Grid-Forming Control and Stability in Renewable Energy Systems

October 25, 2026 (GMT+8) Sunday | 13:30-15:30

Moderator 1: Xiuqiang He, Tsinghua University

Moderator 2: Fangzhou Zhao, Tsinghua University

Time	Title	Speaker
13:30-13:50	Invited Speech 1 Decentralized Stability Analysis for Heterogeneous Power Systems: Architecture, Methodology and Application	Xiuqiang He Tsinghua University
13:50-14:10	Invited Speech 2 Nonlinear Stability Analysis for Current-Limiting Stage of Grid-Forming Converters	Bo Fan Xi'an Jiaotong University
14:10-14:30	Invited Speech 3 Geometric Description and Quantitative Support Index for External Characteristics of Grid-Forming Power Electronic Equipment	Huisheng Gao Zhejiang University
14:30-14:50	Invited Speech 4 Research and Application Analysis of Grid-Forming Railway Traction Converters	Zheming Jin Beijing Jiaotong University
14:50-15:10	Invited Speech 5 Sub-Band Impedance Modeling and Regulation Strategy for Grid-Forming Converters	Chao Wu Shanghai Jiao Tong University
15:10-15:30	Invited Speech 6 Voltage Support Characteristics and Ride-Through Stability Issues of Power Electronic Equipment	Fangzhou Zhao Tsinghua University
15:30-15:50	Coffee Break	



2026 6th International Conference on Intelligent Power and Systems

Session 5 (Scotland Room 苏格兰厅, 3F)

Control and Optimization of VSC-HVDC Systems

October 25, 2026 (GMT+8) Sunday | 15:50-17:50

Moderator 1: Binbin Li, Harbin Institute of Technology

Moderator 2: Gang Lin, Hunan University

Time	Title	Speaker
15:50-16:10	Invited Speech 1 Half- & Fully-Controlled Hybrid HV DC Transformer	Binbin Li Harbin Institute of Technology
16:10-16:30	Invited Speech 2 Resonance Stability Analysis of AC-DC Hybrid Power System Based on AC-DC Mixed Admittance	Haitao Zhang Xi'an Jiaotong University
16:30-16:50	Invited Speech 3 Research on Condition Monitoring and Reliability Evaluation Method for Key Components of MMC-HVDC Valves	Chunlin Lv Xi'an Jiaotong University
16:50-17:10	Invited Speech 4 High-Frequency Oscillation Analysis and Suppression Strategy for M3C-Based Offshore Wind Power Low-Frequency Transmission System	Pengwei Chen Nanjing University of Aeronautics and Astronautics
17:10-17:30	Invited Speech 5 Overvoltage Mitigation of Valve-Side Single-Phase-to-Ground Fault for MMC-HVDC Integrating Offshore Wind Power	Jiapeng Yin Dalian University of Technology
17:30-17:50	Invited Speech 6 Mechanism Analysis and Stabilization Control of Low-Frequency Oscillation for PV-Storage DC-Flexible Microgrid	Gang Lin Hunan University

Session 6 (Zhongguancun Room 中关村厅, 5F)

Autonomous Agentic Intelligence Paradigms for Operation and Control of New-Type Power Systems

October 25, 2026 (GMT+8) Sunday | 13:30-15:50

Moderator 1: Zhong Chen, Southeast University

Moderator 2: Mengshuo Jia, Shanghai Jiao Tong University

Time	Title	Speaker
13:30-13:50	Invited Speech 1 LLM Agent Workflow for Power System Operation and Control	Yu Wang Chongqing University
13:50-14:10	Invited Speech 2 Power Systems Foundation Models: Application Paradigms, Challenges, and Future Outlook	Qingchun Hou Zhejiang University



2026 6th International Conference on Intelligent Power and Systems

14:10-14:30	Invited Speech 3 Power System and Smart Grids: AI Applications in Modern Power System	Rudai Yan Nanyang Technological University
14:30-14:50	Invited Speech 4 Recursive Self-Improvement of Identification Models in Power Systems: A Preliminary Study	Mengshuo Jia Shanghai Jiao Tong University
14:50-15:10	Invited Speech 5 Cooperative operation for multiple building integrated energy systems: A multi-agent deep reinforcement learning approach	Chao Huang University of Science and Technology Beijing
15:10-15:30	Invited Speech 6 Sustainable Power System Analytics via Fusing Learning and Optimization	Linwei Sang Southeast University
15:30-15:50	Invited Speech 7 Digital Object-Graph Modeling and Advanced Application of Electrical Secondary Systems Integrating Image Recognition and Artificial Intelligence	Zhong Chen Southeast University
15:50-16:00	Coffee Break	
Session 7 (Zhongguancun Room 中关村厅, 5F)		
Digital-Intelligent Methods and Paradigms for Stability Identification and Resilience Enhancement of New-type Power Systems October 25, 2026 (GMT+8) Sunday 16:00-18:00 Moderator 1: Jun Liu, Xi'an Jiaotong University Moderator 2: Fang Shi, Shandong University		
Time	Title	Speaker
16:00-16:20	Invited Speech 1 Evaluation of Frequency Dynamics after Disturbances in a New-Type Power System Driven by Mechanism and Data Fusion	Fang Shi Shandong University
16:20-16:40	Invited Speech 2 Stability Analysis and Control of Power Systems with Variable Network Structures: AI-Physics Fusion Approaches	Tong Han North China Electric Power University
16:40-17:00	Invited Speech 3 Engineering Practice of Grid-Forming Energy Storage for Enhancing Power Delivery Capability of Large-Scale Renewable Energy Bases	Wei Wang Inner Mongolia Survey and Design Institute
17:00-17:20	Invited Speech 4 Deep Lyapunov Learning: Embedding the Lyapunov Stability Theory in Interpretable Neural Networks for Transient Stability Assessment	Jun Liu Xi'an Jiaotong University



2026 6th International Conference on Intelligent Power and Systems

17:20-17:40	Invited Speech 5 Hybrid data and model-driven distributed resource aggregation and non-iterative optimization scheduling strategy	Jian Wang Hohai University
17:40-18:00	Invited Speech 6 Coordinated Control Strategy of LVRT and Anti-Islanding Protection for Distributed PV Based on Deep Reinforcement Learning	Tao Zhou Nanjing University of Science and Technology
Session 8 (Carleton Room 卡尔顿厅, 5F)		
AI-Enabled Coordination of Distributed Energy Resources and Virtual Power Plants October 25, 2026 (GMT+8) Sunday 13:30-15:50 Moderator 1: Meng Song, Southeast University Moderator 2: Ge Chen, Greater Bay University		
Time	Title	Speaker
13:30-13:50	Invited Speech 1 Coordinated Charging Scheduling for Massive EVs from Euler Modeling Perspective	Ge Chen Greater Bay University
13:50-14:10	Invited Speech 2 Model-Free Aggregation for Virtual Power Plants under Distributed Energy Resource Uncertainty	Wei Lin Chongqing University
14:10-14:30	Invited Speech 3 Light-Weight Customized LLM-Driven Automatic Modeling and Operation Regulation Technology for Virtual Power Plants	Zhongkai Yi Harbin Institute of Technology
14:30-14:50	Invited Speech 4 Operation Security Space Theory and Method of Distribution Network for Virtual Power Plant Aggregation Regulation	Meng Song Southeast University
14:50-15:10	Invited Speech 5 Research on AI-Empowered Smart Energy Management for Ultra-Fast Charging Loads	Sheng Chen Hohai University
15:10-15:30	Invited Speech 6 A Unified Model for Smart Meter Data Applications	Zhenyi Wang University of Macau
15:30-15:50	Invited Speech 7 Optimization Method of Flexible Interconnection Active Distribution Grid Grouping Operation Based on Security Region	Tiankai Yang Dalian Maritime University
15:50-16:00	Coffee Break	



2026 6th International Conference on Intelligent Power and Systems

Session 9 (Carleton Room 卡尔顿厅, 5F)

Collaborative Control and Optimal Operation of Energy Interconnection Systems

October 25, 2026 (GMT+8) Sunday | 16:00-18:00

Moderator 1: Dazhong Ma, Northeastern University

Moderator 2: Yixun Xue, Taiyuan University of Technology

Time	Title	Speaker
16:00-16:20	Invited Speech 1 Certifiable Data-Driven Control of Unknown Systems: From Theory to Practice in Microgrids	Xiaoyan Dai Tsinghua University
16:20-16:40	Invited Speech 2 Research on Graph Neural Network Fault Location Method for Energy Interconnected System Operation under Low Observability	Xuguang Hu Northeastern University
16:40-17:00	Invited Speech 3 Distributed Optimal Scheduling of Port Energy System Considering Logistics-Multi-Energy Flow Coupling	Qihe Shan Dalian Maritime University
17:00-17:20	Invited Speech 4 Polar Clean Energy Utilization Technology: Challenges, Exploration and Prospect	Yixun Xue Taiyuan University of Technology
17:20-17:40	Invited Speech 5 A New Type of Terminal in Energy Internet: Human Body Power Grid	Jiahe Xu Taiyuan University of Technology
17:40-18:00	Invited Speech 6 Tortoise-shaped Vertical Axis Wind Turbine for Antarctic Extreme Environment	He Ren Taiyuan University of Technology

Session 10 (Austin Room 奥斯汀厅, 5F)

Planning and Operation of New-Type Power Systems

October 25, 2026 (GMT+8) Sunday | 13:30-15:50

Moderator 1: Ershun Du, Tsinghua University

Moderator 2: Fangyuan Si, Beijing Jiaotong University

Time	Title	Speaker
13:30-13:50	Invited Speech 1 Computation-Power-Carbon Coordination for New-type Power Systems: Key Technologies and Prospect	Ershun Du Tsinghua University
13:50-14:10	Invited Speech 2 End-to-End Closed-Loop Prediction-Decision Method for Economic Operation of Wind-Storage Hybrid System	Yao Zhang Xi'an Jiaotong University
14:10-14:30	Invited Speech 3 Coordinated Energy Storage Planning for AI Data Center Considering Heterogeneous Tasks and Thermal Dynamics	Yuan Chi Chongqing University of Science and Technology



2026 6th International Conference on Intelligent Power and Systems

14:30-14:50	Invited Speech 4 Research on Multi-agent Control Strategy of Multiple Energy Storage for Frequency Regulation	Bingyu Wang North China Electric Power University
14:50-15:10	Invited Speech 5 Research on Operation Simulation and Planning Methods for Renewable Energy Power Systems Considering Extreme Weather	Zhi Zhang North China Electric Power University
15:10-15:30	Invited Speech 6 Grid Planning Enhances the Capacity to Accommodate Reverse Power Flow	Fangyuan Si Beijing Jiaotong University
15:30-15:50	Invited Speech 7 Resilient-Oriented Power System Restoration Considering Complex Load Behaviors	Dunjian Xie Nanyang Technological University
15:50-16:00	Coffee Break	
Session 11 (Austin Room 奥斯汀厅, 5F)		
Security Risk Management and Market Operation of New-Type Power Systems October 25, 2026 (GMT+8) Sunday 16:00-18:00 Moderator 1: Ying Xu, Harbin Institute of Technology Moderator 2: Yunyang Zou, Chongqing University		
Time	Title	Speaker
16:00-16:20	Invited Speech 1 Risk Identification, Reserve Prevention, and Dispatch Management for New Power Systems	Wei Dai Guangxi University
16:20-16:40	Invited Speech 2 Disaster Risk Modeling and Management of Distribution Systems Under Urban Rain-Flood Scenarios	Siyuan Sun Xi'an Jiaotong University
16:40-17:00	Invited Speech 3 Analysis of the Evolution Mechanism of Cascading Failures in Power Grids Dominated by Reactive Power and Voltage	Siyuan Chen Wuhan University
17:00-17:20	Invited Speech 4 Strategic Bidding of Renewable-Energy Market Participants: Market Information Inference and Bidding Strategy Optimization	Yunyang Zou Chongqing University
17:20-17:40	Invited Speech 5 Risk-averse Energy Dispatch for Integrated Energy Service Stations Considering Boundedly Rational Mixed User Equilibrium and Operational Uncertainties	Yuanyi Chen Nanjing Normal University
17:40-18:00	Invited Speech 6 Economic Fundamentals and Market Prerequisites for the Transition toward New-Energy-based Heating	Ying Xu Harbin Institute of Technology



2026 6th International Conference on Intelligent Power and Systems

Session 12 (Kista Room 基斯塔厅, 5F)

Coordinated Voltage Security and Stability Control for New-type Power Systems

October 25, 2026 (GMT+8) Sunday | 14:00-17:20

Moderator 1: Shiyun Xu, China Electric Power Research Institute

Moderator 2: Pupu Chao, Dalian University of Technology

Time	Title	Speaker
14:00-14:30	Invited Speech 1 A Centralized-Distributed Coordinated Optimal Control Method for Improving System Voltage Security and Strength Margin	Yuqi Xu China Electric Power Research Institute
14:30-15:00	Invited Speech 2 Transient Voltage Estimation of Multi-Infeed Renewable Energy Systems During LCC-HVDC Blocking	Boyang Li China Electric Power Research Institute
15:00-15:30	Invited Speech 3 Mechanism-Data Driven Real-Time Evaluation Method for Voltage Support Strength of Renewable Energy Grid-Connected Systems	Baoluo Li China Electric Power Research Institute
15:30-15:50	Coffee Break	
15:50-16:20	Invited Speech 4 Response-Driven Transient Voltage Stability Assessment and Control of Renewable Energy Power Systems	Yuhan Feng Northeast Electric Power University
16:20-16:50	Invited Speech 5 Fault-Conditional-Learning Based Transient Voltage Risk Assessment for Renewable Energy Sending-End Power Grids	Ziming Yan Dalian University of Technology
16:50-17:20	Invited Speech 6 Research on Constant-Voltage Constant-Frequency Control Strategy for Grid-Connected Renewable Energy Converters	Zheng Zeng Chongqing University



2026 6th International Conference on Intelligent Power and Systems

Oral Presentation

Paper Oral Presentation (Austin Room 奥斯汀厅, 5F)

October 26, 2026 (GMT+8) Monday | 8:30-11:30

Moderator 1: Shubo Hu, Electric Power Research Institute of State Grid Liaoning Electric Power Co., Ltd.

Moderator 2: Zhong Zhang, Dalian University of Technology

Time	Title	Speaker
08:30-08:45	Oral Presentation 1 Grid-Impedance-Feedforward Model Predictive Control for Coordinated Grid Integration of Offshore Wind and Shipboard Energy Storage	Guanglei Li Shanghai Marine Equipment Research Institute
08:45-09:00	Oral Presentation 2 Optimal PV capacity sizing model for cascade hydro PV complementary system considering water diversion projects	Qixiang Ruan Sichuan Energy Internet Research Institute, Tsinghua University
09:00-09:15	Oral Presentation 3 Second-Order Stochastic Control of Nonlinear Wind Turbines With Stochastic Wind-Speed Dynamics	Xianwen Xiong South China University of Technology
09:15-09:30	Oral Presentation 4 A Qreq-Guided CVPER-TD3 Method for Coordinated Active and Reactive Power Control of Wind Farms During LVRT	Kun Chen Harbin Institute of Technology
09:30-09:45	Oral Presentation 5 A Comprehensive Scoring-based Method for Frequency Security Situational Early Warning in Power Systems	Baiyang Xu Dalian University of Technology
09:45-10:00	Coffee Break	
10:00-10:15	Oral Presentation 6 Hierarchical Coordinated Overfrequency Control for Renewable-Rich Sending-End Grids	Zhen Yang Northeast Forestry University
10:15-10:30	Oral Presentation 7 Sampled-Data Based Secondary Control of DC Microgrids with Stochastic Loads	Chuang Liu South China University of Technology
10:30-10:45	Oral Presentation 8 Electricity Costs and Carbon Emissions of Storage Dispatch in a Port Multi-Energy System	Luqi Liu North China Electric Power University
10:45-11:00	Oral Presentation 9 A High-Precision Frequency Measurement Method for Renewable Energy Collection Stations Based on the Circular Motion Trajectory Equation	Renfei Long Xinjiang University



2026 6th International Conference on Intelligent Power and Systems

11:00-11:15	Oral Presentation 10 Stagewise Analysis of Receiving-end Voltage Recovery based on Control Transitions in LCC-HVDC and Renewable Generation	Shilu Wang Dalian University of Technology
11:15-11:30	Oral Presentation 11 Cross-Source Generalization in Electroluminescence Crack Segmentation	Karan Pathak Independent Researcher, Redmond, USA



2026 6th International Conference on Intelligent Power and Systems

Conference Venue

Hi-Chance Science & Technology Center, No. 507 Huangpu Road, Gaoxin District, Dalian

海创（大连）科技交流中心，大连市高新园区黄浦路507号

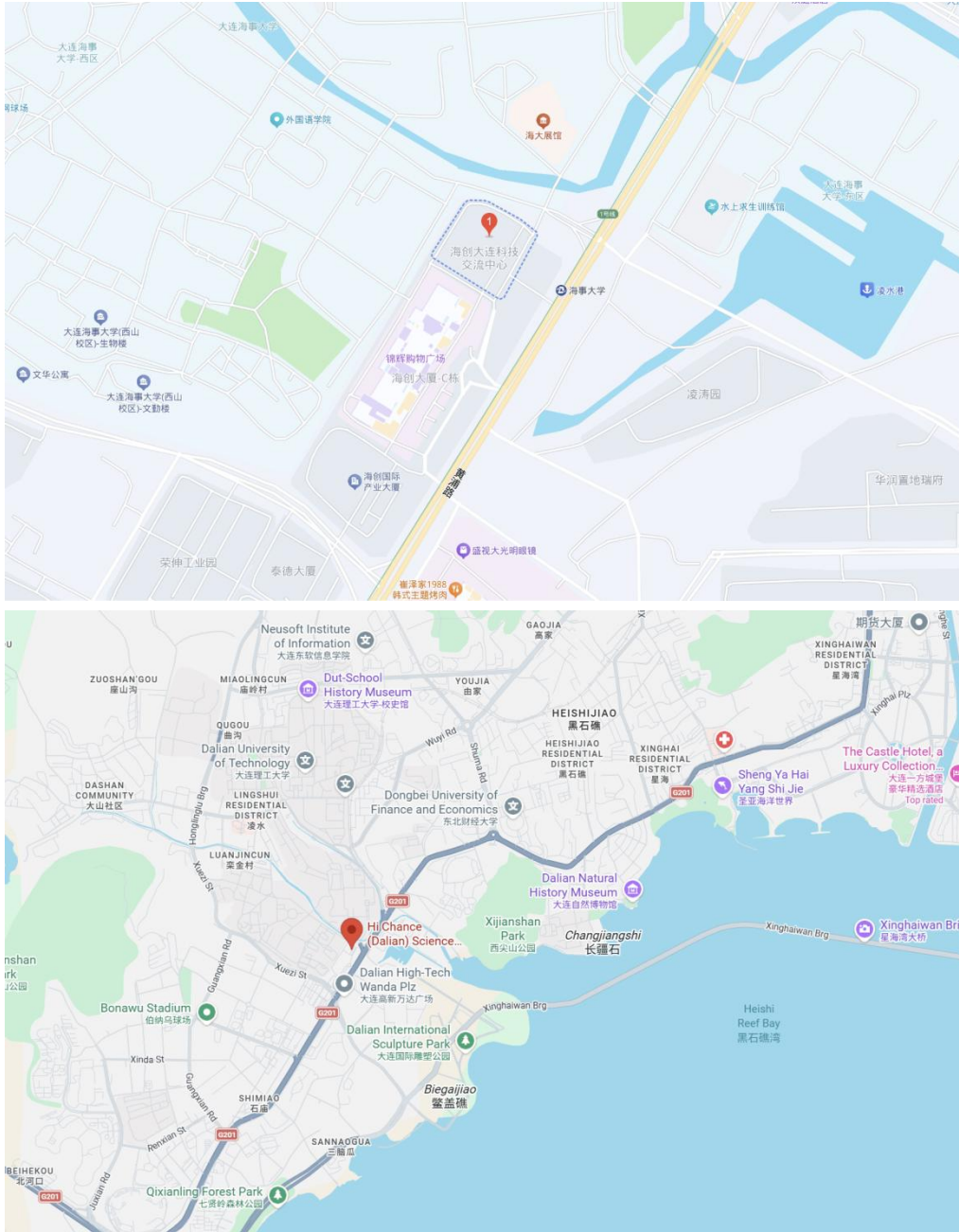


For hotel invoices, dining, directions, lost and found: 0411-62620777

Website: <https://www.hichancedalian.cn>



2026 6th International Conference on Intelligent Power and Systems



For Dalian Zhoushuizi International Airport, it is 13 km away; Dalian Railway Station is 11 km away; Dalian North Railway Station is 21 km away, Direct access via Dalian Metro Line 1.

距大连周水子国际机场 13 公里；距大连火车站 11 公里；距大连北站 21 公里，大连地铁1号线直达(海事大学站)。

Contact

- 会议官网: <http://icips.net>
- 会议邮箱: icips_conf@163.com
- 大会秘书: 郭老师
Tel/WeChat: +86-18124944750
- 大会秘书: 韩老师
Tel/WeChat: +86-15820210118



扫码查看现场照片

