

Special Session I

Special Session Basic Information:

专栏题目 Session Title	中文：新能源电工装备智能状态感知技术 英文：Intelligent State Sensing Technology of Electrical Equipment for Renewable Energy
专栏介绍和征稿主题 Introduction and topics	<p>中文：新能源电工装备(如变压器、电机、变流器、储能电池、电缆、高压断路器等)的智能状态感知技术，在确保可再生能源安全与可靠并网运行等方面的作用愈发凸显。对其可能出现的故障进行智能在线诊断与精准预测管控，将极大助力“双碳”战略落地。</p> <p>英文：The intelligent state sensing technology of electrical equipment for renewable energy (such as transformer, motor, converter, energy storage battery, cable, high-voltage circuit breaker, etc.), is playing an increasingly important role in ensuring the safe and reliable grid-connected operation of renewable energy. Intelligent online diagnosis and accurate prediction and control of potential faults in these equipments significantly support the implementation of the "Dual Carbon Strategy".</p>

Special Session Chair(s):

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Organizer's Brief Biography

中文：李劲松，男，工学博士、博士后、副教授、博士生导师，工作于大连理工大学电气工程学院电力电子研究所，担任中国仪器仪表学会电磁测量信息处理仪器分会第九届委员会委员，山东省科技专家库青年专家，鲁特电工股份有限公司科技副总(挂职)、研发中心副主任。2017~2019年为清华大学电机系博士后。主要从事新能源协同调控与电工装备先进制造等研究。

入选辽宁省人才集聚计划(2022年)，主持或完成国家自然科学基金、中国博士后科学基金、全国重点实验室开放基金、省(部)市科技创新(人才)研究计划及校企横向合作(委托)项目(课题)10余项，参与国家重点研发计划项目2项、“智能电网”国家科技重大专项1项。已发表SCI/EI论文20余篇，授权发明专利5项，担任《电力系统保护与控制》青年助理编辑、《中国电力》/《电气时代》/《电气应用》青年编委、《电测与仪表》编委，《IEEE Transactions on Industrial Electronics》、《IEEE Transactions on Magnetics》、《中国电机工程学报》、《电工技术学报》、《太阳能学报》等期刊(特约)审稿人。

英文：Jingsong Li, male, Doctor of Engineering, Associate Professor, works in School of Electrical Engineering, Dalian

University of Technology. He is a member of the 9th Committee of the Electromagnetic Measurement Information Processing Instrument Branch of China Instrumentation Society, a Young Expert of Shandong Province Science and Technology Expert Database, Vice President of Science and Technology (temporary) and deputy director of R&D center of Lute Electric Co., LTD, and Postdoctoral Fellow from Tsinghua University, Beijing, China, during 2017-2019.

He is mainly engaged in the research of renewable energy coordinated regulation and advanced manufacturing of electrical equipment. Selected as Outstanding Young Scientific and Technological Talents of Liaoning Province in 2022. He has presided over or completed more than 10 projects (topics) such as the National Natural Science Foundation of China, China Postdoctoral Science Fund, provincial (ministerial), municipal and enterprise cooperation projects, and published more than 20 SCI/EI papers, 5 authorized invention patents, served as the young assistant editor of "Power System Protection and Control", the editorial board member(long appointment review) of "Electrical Measurement & Instrumentation", and the reviewer of "Proceedings of the CSEE", "Transactions of China Electrotechnical Society", "Acta Energeiae Solaris Sinica" and other journals.



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Organizer's Brief Biography

中文：洪剑锋，于2012年和2015年分别在南昌大学获电气工程学士和硕士学位。2019年，在清华大学电机系获博士学位。2019年10月至2022年02月，在清华大学电机系从事博士后研究。目前，为北京交通大学副教授，研究方向包括电机驱动、电机的噪声和振动。

英文：Jianfeng Hong (M'17) received the B.S. and M.S. degree in electrical engineering from Nanchang University, Nanchang, China, in 2012 and 2015. He received the Ph.D. degree in the Department of Electrical Engineering, Tsinghua University, Beijing, China in 2019. During Oct.2019 to Feb. 2022, he was a Postdoc Researcher at Tsinghua University, Beijing, China. He is currently an Associate Professor at Beijing Jiaotong University, Beijing, China. His research interests include motor drives, noise and vibration of electrical machines.



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Organizer's Brief Biography

中文：**蔡昌春**，男，在河海大学获得电气工程学士、硕士和博士学位，目前是河海大学人工智能与自动化学院副教授，兼任《电测与仪表》杂志编委、江苏省输配电装备技术重点实验室秘书，主要研究方向为海上新能源并网控制和微电网。近年来主持和参与包括国家自然科学基金等 20 余项，发表 SCI/EI 检索论文 70 余篇，授权发明专利 20 余件，转让 3 件；获江苏省科学技术奖二等奖 1 项。

英文：**Changchun Cai** received the B.S., M.S. and Ph.D. degree in electrical engineering from Hohai University. He is currently an Associate Professor at Hohai University, Nanjing, China. He is a member of the editorial board of Electrical Measurement & Instrumentation, and is the secretary of the Jiangsu Provincial Key Laboratory of Transmission and Distribution Equipment Technology. He is mainly engaged in the research of renewable energy grid-connected control and Microgrids. He has presided over or completed more than 20 projects such as the National Natural Science Foundation of China, and published more than 70 SCI/EI papers. He has received Second Prize of the Jiangsu Provincial Science and Technology Award.

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Organizer's Brief Biography

中文：**李旭斌**，男，博士毕业于英国利物浦大学电气工程与电子系，大连理工大学助理教授，硕士生导师。主要研究方向包括环保型真空开关技术、开关电弧等离子体理论及其应用、真空触发开关技术及新能源发电材料等。主持智能电网 2030 重大科技专项子课题一项和大连理工大学引才项目，作为项目骨干参与国家自然科学基金重点/面上项目、国网总部科技项目等多项国家级和省部级科研课题。在 *High Voltage*、*IEEE Trans on Plasma Science, Measurement* 和 *中国电机工程学报* 等国内外重要学术期刊发表论文十余篇，并担任 *High Voltage* 期刊编委 (Associate Editor) 和多个学术期刊审稿人。

英文：**Xubin Li** received his Ph.D. degree in Electrical and Electronic Engineering from the University of Liverpool. He is currently an Assistant Professor and Master's supervisor at Dalian University of Technology. His research interests mainly focus on environmentally friendly vacuum switching technologies, switching arc plasma theory and its applications, pulse power switching technology, as well as materials for renewable energy generation. He is currently the Principal Investigator of a sub-project under the National Key R&D Program "Smart Grid 2030" and a talent recruitment project at Dalian University of Technology. He has also participated as a core member in several national and provincial research projects, including key and general programs of the National Natural Science Foundation of China and science and technology projects of the State Grid Corporation of China. Dr. Li has published more than ten papers in prestigious journals such as *High Voltage*, *IEEE Transactions on Plasma Science, Measurement*, and *Proceedings of the CSEE*. He currently serves as an Associate Editor for *High Voltage* and as a reviewer for multiple international academic journals.

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Organizer's Brief Biography

中文：**李晓龙**，男，副教授，沈阳工业大学高电压与电力系统研究所所长、电机系副主任，英国利物浦大学访问学者。主要从事高压电力设备研发、电力设备状态检测等研究工作。发表SCI/EI论文70余篇，授权发明专利25项，主持国家自然科学基金项目、全国重点实验室开放课题、国家电网公司总部项目等各类科技项目/课题20余项。现为IEEE PES（中国）直流电力系统技术委员会直流输变电设备技术分委会理事、中国电机工程学会高电压专委会青年学组委员、中国电工技术学会等离子体及应用专委会青年委员、机械工业教育协会高电压与绝缘技术学科教学委员会委员。获机械工业科技进步一等奖1项，辽宁省科技进步二等奖1项，瑞士日内瓦国际发明展银奖1项，德国纽伦堡国际发明展铜奖1项。

英文：**Xiaolong Li** received his Ph.D. degree from Tianjin University in 2017. He worked as a Research Fellow at The University of Liverpool from 2018 to 2019. He is currently an associate professor at the School of Electrical Engineering, Shenyang University of Technology. He is also the director of The Institute of High Voltage and Power System, Deputy Director of Department of Electrical Engineering at this university. His major research interests include gas discharge, switching technology, intelligent monitoring and fault diagnosis of electric power equipment. He is a young member of the CSEE High Voltage Technical Committee and the CES Plasma and Applications Technical Committee. He is also the member of DC Transmission and Transformation Equipment Subcommittee of DC Power System Committee (IEEE PES China).