Special Session XIV

Special Session Basic Information:

专栏题目 Session Title	中文：新能源装备先进状态感知技术 英文：Advanced State Sensing Technology of Electrical Equipment for Renewable Energy

专栏介绍和征稿主题
Introduction and topics

中文：

电工装备(如电机、变压器、并网变流器、高压断路器等)的先进状态感知技术，在确保可再生能源安全与可靠并网运行方面发挥着越来越重要的作用。对电工装备可能出现的故障进行准确预测和在线控制，将有助于在“双碳”背景下实现“碳中和”。

英文：

The advanced state sensing technology of electrical equipment, including motors, transformers, grid-connected converters, high-voltage circuit breaker, etc., plays an increasingly important role in ensuring the safe and reliable grid-connected operation of renewable energy. Accurate prediction and online control of possible faults of electrical equipment will contribute to the realization of "Carbon Neutral" under the "Dual Carbon" background.

Special Session Chair(s):

姓名 Name	李劲松 Jingsong Li
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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 Energiae 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.