Special Session IV

Special Session Basic Information:

专栏题目 Session Title	中文：电力系统应对极端事件的韧性增强策略 英文：Resilience Enhancement Strategy of Power System against Extreme Events

专栏介绍和征稿主题
Introduction and topics

中文：在全球气候变化加剧与极端天气事件频发的双重挑战下，电力系统作为关键基础设施的韧性已成为学术界与工业界的核心关切。电力系统韧性指电网承受扰动、适应灾变与快速恢复的三重能力，以最小化极端事件对供电可靠性与社会关键服务的影响。然而，高比例可再生能源接入、信息物理深度耦合等新型电力系统特征，使得传统防灾体系面临多维重构需求。本专题分会旨在系统探讨应对极端事件时电力系统韧性提升的前沿理论与技术路径，推动极端事件下电力系统评估、适应、恢复多环节协同创新。

英文： In the face of an increasingly unpredictable climate and the rising frequency of extreme weather events, ensuring the resilience of power systems has become a paramount concern for utilities, governments, and researchers. Power system resilience refers to the ability of the grid to withstand, adapt to, and rapidly recover from disruptive events, minimizing the impact on electricity supply and maintaining critical services. This special session covers different comprehensive resilience enhancement strategies to address the challenges posed by extreme events.

Special Session Chair(s):

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Organizer's Brief Biography

中文：何川（IEEE 高级会员）分别于 2011 年、2014 年和 2018 年在四川大学电气工程专业获学士、硕士和博士学位。2015 年至 2017 年，以联合培养博士生身份赴美国纽约州克拉克森大学访问学习。现任四川大学电气工程学院副教授，主要研究方向为电力系统与综合能源系统运行与规划。
何教授已发表 SCI 论文 26 余篇，其中 1 篇入选 ESI 高被引论文，2023 年入选全球顶尖科学家榜单。主持国家自然科学基金项目 2 项，并担任中文 EI 期刊《电力系统保护与控制》和《电力自动化设备》青年编委。

英文： Chuan He (Senior Member, IEEE) received the B.S., M.S., and Ph.D. degrees in electrical engineering from Sichuan University, Chengdu, China, in 2011, 2014, and 2018, respectively. From 2015 to 2017, he was a Visiting Ph.D. Student with Clarkson University, Potsdam, NY, USA. He is currently an Associate Professor with the College of

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Professor He has published over 26 SCI papers with 1 ESI highly cited paper. He is selected as the world's top scientists in 2023 and 2024. He has hosted two projects of National Natural Science Foundation of China. Professor He is also on the young editorial board of Chinese EI journal Power System Protection and Control and Electric Power Automation Equipment.