

Smart Large Scale Energy Storage State Monitoring

Topics:

The International Conference on Smart Grid and Sustainable Energy 2025 (SGSE 2025), jointly organized by Lanzhou Jiaotong University (LJTU) and Hercynian College, with authoritative technical support from the IEEE Power & Energy Society, is an annual event with significant academic influence in the field of smart grid and sustainable energy. The conference focuses on key technological breakthroughs and system innovation in the context of global energy transition, and builds a high-level international platform for interdisciplinary and inter-institutional academic exchanges and cooperation. The topics of the conference cover such cutting-edge directions as smart grid architecture optimization, renewable energy on-grid control, energy internet information physical system, distributed energy aggregation and regulation, power market mechanism design, etc. Meanwhile, the conference also discusses in-depth the cross-disciplinary issues such as energy policy driven by the goal of carbon neutrality, innovation of energy storage technology, and integration of multi-energy complementary system. The previous conferences have successfully promoted the deep integration of industry-academia-research through thematic reports, symposiums and technical exhibitions, published more than 100 EI/SCI retrieved papers, and contributed to more than 30 university-enterprise cooperation projects, among which the research results of self-healing control of distribution network based on digital twin, dynamic scheduling of wind-solar-storage joint system and other research results have been realized in industrialized applications. The special sub-forum set up by the conference attracted scholars from many top research institutions around the world. Some important results of the conference have provided theoretical support and practical paradigm for building a safe, efficient and low-carbon modern energy system, fully demonstrating its core value in leading the development of disciplines and promoting technological innovation.



Special Session Chair BIO

Prof. Shunli Wang is a Doctoral Supervisor, Executive Vice President of Smart Energy Storage Institute, Academic Dean of Electric Power College in Inner Mongolia University of Technology, Deputy General Manager of Daqingshan Laboratory in Inner Mongolia Electric Power Group. Visiting Professor of Xi 'an Jiaotong-Liverpool University, Academician of Russian Academy of Natural Sciences, IET Fellow, Academic Leader of National Electrical Safety & Quality Testing Center, Tianfu

Qingcheng Scientific and Technological Talent, High-level Overseas Talent, Tianfu A Talents, Academic & Technical Leader of Chinese Science and Technology City, and Top 2% Worldwide Scientist. undertaken 56 projects such as the National Natural Science Foundation and National Key Research & Development, with a Research Interest Score value of 13985, and 258 articles published on SCI-indexed famous journals with 52 articles in the First Area / TOP journals in Chinese Academy of Sciences, 36 high-cited / hot ones, 63 authorized invention patents and standards and 10 books. 9 awards have been achieved, including 3 international gold medals. 17 chairmanship of international conferences, and 5 editorial boards of international and domestic Chinese periodicals. The core technical achievements have reached the international advanced level and reported by People's Daily.