

2026 International Conference on Power, Electronics and Intelligent Systems

Conference Awards



2026 International Conference on Power, Electronics and Intelligent Systems (PEIS) will be held in Nanjing, China during November 6-8, 2026. Sponsored by Nanjing Institute of Technology, co-hosted by Jiangsu Society for Electrical Engineering, Jiangsu Renewable Energy Society, Shandong University of Technology and China University of Mining and Technology, patroned by Guangxi University, China, Universiti Teknologi Malaysia, Malaysia, Sunway University, Malaysia. This conference will convene global experts, scholars, and engineers to explore the integration of power electronics with AI and IT—a key driver in reshaping modern energy and industrial systems.

The forum aims to foster discussions on new theories and technologies, promote interdisciplinary collaboration, and accelerate the translation of innovations into practical solutions for building a clean, low-carbon, safe, and efficient energy future.

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Prof. Vladimir Terzija
Newcastle University, UK,
IEEE Fellow, Humboldt Fellow



Prof. Dean Sharafi
IEEE PES



Fushuan Wen
Zhejiang University, China
IEEE Fellow

Conference Proceedings



Submitted papers will be peer-reviewed by the Technical Program Committee based on relevance, quality, and originality. Accepted papers will be published in the IEEE conference proceedings, included in **IEEE Xplore**, and submitted for indexing in **Ei Compendex** and **Scopus** after the conference. At least one author of each accepted paper must register and present at the conference.

Call for Papers

Intelligent Energy Conversion & Storage Technologies

- Renewable Energy Systems
- Photovoltaic Power Generation
- Electrical Machines and Drives
- Electrical Batteries and BMS
- Energy Storage Technology
- Transmission and Distribution
- New Power Systems
- New Energy Power Generation System
- Motor System Modeling and Analysis
- Motor System Design and Optimization
- Power Quality

Smart Grid & Energy System Integration

- Grid Stability with High Renewables
- Grid Integration of Distributed Renewables
- Cooperative Optimization of Grids & Microgrids
- Virtual Power Plants & Market Trading
- Power System Cybersecurity
- Power System Resilience & Restoration
- Plug-and-Play for Distributed Energy
- Modeling of Integrated Energy Systems
- Long-Duration Storage & Grid Coupling
- Demand Response & Load Forecasting
- Power IoT & Edge Computing
- Energy & Transportation Coordination
- AI & Data Science for Energy Systems
- Transportation Electrification & V2X
- Cyber-Physical Security

High-efficiency Power Electronics and Intelligent Equipment

- GaN/SiC High-Frequency High-Density Converters
- High-Frequency Magnetic Integration
- Predictive & Intelligent Control for Converters
- AI-Driven Condition Monitoring & Prognostics
- Digital Twin for Power Electronics
- High-Efficiency DC Architectures for Data Centers
- Power Supplies & RF Systems for Communications
- HV Power Distribution for Aerospace & EVs
- Modular Multilevel Converters (MMC)
- Reconfigurable Intelligent Power Modules
- Soft-Switching & EMI Suppression

High Voltage Engineering & Grid Security

- Nanocomposite Dielectrics
- Insulation for HVDC/FACTS Equipment
- Fault Diagnosis for GIS & Transformers
- Lightning & Switching Overvoltage Protection
- Insulation in Hybrid AC/DC Grids
- PD Detection for HV Equipment
- Space Charge Effects & Measurement
- Intelligent Sensing for Power Equipment
- HV Testing & Simulation
- Electromagnetic Transients & High-Current Tech
- External Insulation & Pollution Flashover
- Cable & GIL Transmission
- HV Current Limiting & Breaking
- Grid Security & Restoration

Special Session I

Mechanisms of Insulation Degradation, Intelligent Sensing, and Fault Diagnosis for Power Equipment



Yuyao Hu
Shandong University of Technology,
China



Xinhan Qiao,
China University of Mining and Technology
China

Call for Tracks

We are now welcoming proposals for thematic tracks to be held as part of the 2026 International Conference on Power, Electronics and Intelligent Systems. Proposals should be submitted by September 30th, 2026 via the conference email: peis_conference@vip.163.com
For detailed information: <https://www.peis.org/track.html>

Submission

Submission Deadline: September 10th, 2026

Online Submission System: <https://easychair.org/my/conference?conf=peis2026>

Online Registration System: <https://www.zmeeting.org/register/peis2026>

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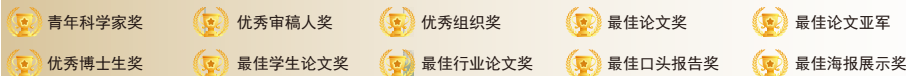
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会议奖项



2026年国际电力、电子与智能系统会议（PEIS）将于2026年11月6日至8日在中国南京举行。本次会议由南京工程学院主办，江苏省电气学会、江苏省可再生能源学会、山东理工大学和中国矿业大学协办，并得到中国广西大学、马来西亚理工大学和马来西亚双威大学的支持。会议将汇聚全球专家、学者和工程师，共同探讨电力电子与人工智能和信息技术融合——这是重塑现代能源和工业系统的关键驱动力。

本次会议旨在促进对新理论和新技术的探讨，推动跨学科合作，并加速将创新成果转化为切实可行的解决方案，以构建清洁、低碳、安全、高效的能源未来。

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主旨报告



Prof. Vladimir Terzija
Newcastle University, UK,
IEEE Fellow, Humboldt Fellow



Prof. Dean Sharafi
IEEE PES



文福拴
浙江大学
IEEE Fellow

会议论文集



IEEE

所有提交的论文将由技术程序委员会组织同行评审，依据主题相关性、质量与原创性等标准。会议录用文章将出版到IEEE会议论文集中，收录至IEEE Xplore，并于会后提交EI核心和Scopus检索。每篇录用论文至少须有一名作者注册并到会报告。

征稿主题

能源转换与储能技术

- 可再生能源系统
- 光伏发电
- 电机及驱动
- 蓄电池及电池管理系统
- 储能技术
- 输配电
- 新型电力系统
- 新能源发电系统
- 电机系统建模与分析
- 电机系统设计与优化
- 电能质量

智能电网与能源系统集成

- 高可再生能源并网稳定性
- 分布式可再生能源并网
- 电网与微电网协同优化
- 虚拟电厂与市场交易
- 电力系统网络安全
- 电力系统韧性及恢复
- 分布式能源即插即用
- 综合能源系统建模
- 长时储能与电网耦合
- 需求响应与负荷预测
- 电力物联网与边缘计算
- 能源与交通协调
- 面向能源系统的AI与数据科学
- 交通电气化与V2X
- 网络物理安全

高效电力电子与智能装备

- GaN/SiC 高频高密度变换器
- 高频磁集成
- 变换器的预测与智能控制
- 人工智能驱动的状态监测与预测
- 电力电子数字孪生
- 数据中心高效直流架构
- 通信电源与射频系统
- 航空航天与电动汽车高压配电
- 模块化多电平变换器（MMC）
- 可重构智能功率模块
- 软开关与电磁干扰抑制

高电压工程与电网安全

- 纳米复合电介质
- 高压直流/柔性交流输电系统设备绝缘
- 气体绝缘开关设备及变压器故障诊断
- 雷击及开关过电压保护
- 交直流混合电网绝缘
- 高压设备局部放电检测
- 空间电荷效应及测量
- 电力设备智能传感
- 高压测试与仿真
- 电磁瞬态及大电流技术
- 外部绝缘及污染闪络
- 电缆及气体绝缘层输电
- 高压限流及断路器
- 电网安全及恢复

专题I 电力装备绝缘劣化特性机理、智能感知与故障诊断



胡玉耀
山东理工大学电气与电子工程学院副院长



乔新涛
中国矿业大学

专题征集

我们现正征集2026年国际电力、电子与智能系统大会的主题分会场提案。提案请于2026年9月30日前通过会议邮箱peis_conference@vip.163.com提交（请务必先阅读相关规则和指南）。详情请访问：<https://www.peis.org/track.html>

论文提交

截止日期：2026年9月10日

提交链接：<https://easychair.org/my/conference?conf=peis2026>
注册链接：<https://www.zmeeting.org/register/peis2026>

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