



2024 2nd Power Electronics and Power System Conference (PEPSC 2024)

Singapore | Nov. 6 - 9 | <https://pepsc.org/>

### **About PEPSC 2024**

2024 2nd Power Electronics and Power System Conference (PEPSC 2024) is co-organized by University of Electronic Science and Technology of China and Hong Kong Society of Mechanical Engineers(HKSME), technical sponsored by IEEE PES Singapore Chapter, supported by Center for Power Engineering (CPE), Nanyang Technological University, Shanghai Jiao Tong University, Hangzhou Dianzi University and Singapore Institute of Green Energy Ltd., media supported by Proceedings of the CSEE, Automation of Electric Power Systems, Power system Technology, High Voltage Engineering, Electric Power Information and Communication Technology, New Type Power Systems, CSEE Journal of Power and Energy Systems(CSEE JPES), High Voltage, Energy Internet, Power System Protection and Control, Electric Machines and Control, Electrical Power Engineering Technology, Power Generation Technology, CPSS Transactions on Power Electronics and Applications(CPSS TPEA), Journal of Power Supply, Nanfang Nengyuan Jianshe, Neimenggu Dianli Jianshe, Smart Power & Energy Security, Journal of Computational and Cognitive Engineering, Electric Power and Southern Power Grid Technology, which will be held at Nanyang Technological University in Singapore from Nov. 6 to 9, 2024. The theme of PEPSC 2024 is "Digital, Intelligent Power Conversion and New Power System".

## PEPSC 2024 Committees

### Honorary Chair



**Heng Nian**

Zhejiang University, China

### Conference Committee Chairs



**Keyou Wang**

Shanghai Jiao Tong University, China



**Lijun Hang**

Hangzhou Dianzi University, China



**Weihao Hu**

University of Electronic Science and  
Technology of China, China



**Yan Xu**

Nanyang Technological University,  
Singapore

## PEPSC 2024 Speakers



**Prof. Bikash Pal**

IEEE Fellow

Imperial College London, UK

**Keynote Lecture:** Optimal Voltage Ride-Through of IBR-Dominated Power Systems



**Prof. Haoyong Chen**

South China University of Technology, China

**Keynote Lecture:** TBA



**Prof. Weihao HU**

IET Fellow

University of Electronic Science and Technology of China, China

**Keynote Lecture:** Artificial Intelligence and its Application in New-Type Power Systems



**Prof. Rongwu Zhu**

Harbin Institute of Technology, China

**Keynote Lecture:** Talkative Power Conversion for Smart Power-Cyber Applications

## Publication & Indexing

1. All the accepted and presented papers will be submitted for inclusion into IEEE Xplore subject to meeting IEEE Xplore's scope and quality requirements. The publisher will submit articles to Engineering Village, Scopus, Web of Science and other databases for review and indexing after publication.

2. Selected papers (accepted and presented) with great extension will be recommended to publish in Special Issue of IET Electric Power Applications (Online ISSN:1751-8679): "Advances in Power System Dynamics, Stability, Control and Dispatch with Large-Scale Renewable Energy Penetrated" after conference. The publisher will submit articles to

SCIE, Scopus and other databases for review and indexing after publication.

PEPSC 2023 has been successfully indexed by Ei Compendex! ([Click](#))

*[\\*PEPSC 2024 is listed on the IEEE conference list. \(Click\)](#)*

## Special Sessions

- **Special Session I:** Flexibility modelling, planning and operation of large-scale renewable energy aggregated power systems  
Chair: Jia Liu, Hangzhou Dianzi University, China  
Vice Chair: Yikui Liu, Sichuan University, China  
Vice Chair: Wei Gan, Cardiff University, China
- **Special Session II:** Advanced Wireless Power Transfer Systems with High Robustness and Efficiency against Multi-Disturbance  
Chair: Cancan Rong, The China University of Mining and Technology, China  
Vice Chair: Yu Gu, Tianjin University, China
- **Special Session III:** Multi-energy virtual power plant considering electric carbon coordination  
Chair: Yang Gao, Shanghai Jiao Tong University, China  
Vice Chair: Qian Ai, Shanghai Jiao Tong University, China  
Vice Chair: Tianguang Lu, Shandong University, China
- **Special Session IV:** Design Optimization and Advanced Control of Power Electronics Converter Systems  
Chair: Ziheng Xiao, Nanyang Technological University, Singapore  
Vice Chair: Yu Zeng, Nanyang Technological University, Singapore  
Vice Chair: Qingxiang Liu, Nanyang Technological University, Singapore

## Call for Papers

Topics of interest for submission include, but are not limited to:

1. Power Electronics Topology and Control
2. Wind and solar storage power electronics
3. Power electronics for power transmission and distribution
4. Transportation electrification power electronics

***Chair: Kamyar Mehran, Queen Mary University of London, UK***

5. Data center power electronics

6. Power electronic devices
7. Control, modeling, simulation
8. System stability and reliability

***Chair: Jingsong Li, Dalian University of Technology***

9. Renewable energy conversion technology and new energy storage

***Chair: Subhasis Roy, University of Calcutta, India***

10. New power system

***Chair: Jia Liu, Hangzhou Dianzi University, China***

11. Smart grid and energy

***Chair: Bo Liu, Tianjin University, China***

12. Microgrids

More topics can be found at: <https://pepsc.org/cfp.html>

## **Paper Submission**

Authors are invited to submit papers through the conference [Submission System](#). Submissions must be original and should not have been published previously or be under consideration for publication while being evaluated for this conference. The manuscript should be formatted in accordance with the template as follow:

[Full Paper Template \(Microsoft Word\)](#) | [Full Paper Template \(LaTeX\)](#)

## **Important Dates**

Full paper submission deadline: **Sept. 25, 2024**

## **Conference Program Overview**

This is a tentative program for reference only, program is subject to final confirmation.

Nov. 6, 2024 - Registration and Conference kits collection

Nov. 7, 2024 - Opening Remark/Plenary Lecture/Panel Discussion/Special & Technical Session

Nov. 8, 2024 - Invited Speeches + Technical Sessions & Technical Tour

Nov. 9, 2024 - Panel Discussion/Industrial Forum/Industrial Visit (To be determined)

**Contact Info.**

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Conference Website: <https://pepsc.org>

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