CALL FOR PAPERS

PESA 2026

Singapore | November 13–15, 2026

2026 11th International Conference
on Power Electronics Systems and Applications

Important Dates

Submission Deadline	**October 5, 2026**
Notification Deadline	October 15, 2026
Registration Deadline	October 20, 2026

Special Session 7: Advanced Power Converters and Control Technologies for Renewable Energy and Energy Storage Systems

The increasing penetration of renewable energy resources and the rapid deployment of energy storage systems (ESSs) are creating new challenges and opportunities for power conversion technologies. Advanced power converters are essential for achieving high efficiency, superior power quality, reliable operation, and enhanced grid support capabilities in photovoltaic (PV), wind energy system, and ESSs. This special session focuses on emerging power converter topologies, advanced control strategies, and enabling technologies for next-generation renewable energy and energy storage applications. The session aims to provide a platform for researchers and practitioners to share the latest developments in converter design, modulation methods, control techniques, thermal management, reliability enhancement, and grid integration of power electronic systems.

1. Novel power converter topologies and architectures for renewable energy and energy storage systems;
2. High-efficiency, high-power-density, and high-reliability power conversion techniques;
3. Wide-bandgap (SiC/GaN)-based power converters and advanced integration technologies;
4. Advanced modulation, control, optimization, and grid-supportive operation techniques;
5. Thermal management, electromagnetic interference (EMI) mitigation, and packaging technologies;

Chair: Xiong Liu
Jinan University, China

Co-Chair: Xiaojun Deng
Nanyang Technological University, Singapore

Co-Chair: Xiaonan Zhu
Hunan University, China

Co-Chair: Yang Chen
Hunan University, China

Co-Chair: Meng Chen
University of Cambridge, UK

Publication

IEEE The accepted and presented papers will be published in the **PESA Conference Proceedings**. Conference content will be submitted for inclusion into **IEEE Xplore** and indexed by **Ei Compendex** and **Scopus**, etc.

- **PESA 2026 has been included in IEEE event list! (Read More)**
- **All past PESA proceedings are archived in IEEE Xplore and indexed by Ei Compendex and Scopus.**

IAS IEEE INDUSTRY APPLICATIONS SOCIETY Linking Research to Practice

SCI Journal

Up to 20% of the outstanding PESA 2026 papers will be selected and recommended for review and potential publication in IAS Transactions and IAS Magazines (JCR-Q2).

Publication History

Accepted and presented papers of **10-year PESA** have been successfully published and indexed by **EI Compendex & Scopus**.

PESA 2024: Hong Kong, China - ISBN: ISBN: 979-8-3503-6580-1
PESA 2022: Hong Kong, China - ISBN: 978-1-6654-8668-2
PESA 2020: Hong Kong, China - ISBN: 978-1-7281-8890-4
PESA 2017: Hong Kong, China - ISBN: 978-1-5386-1387-0
PESA 2015: Hong Kong, China - ISBN: 978-1-5090-0063-0
PESA 2013: Hong Kong, China - ISBN: 978-1-4799-3491-1
More info, please visit: https://www.icpesa.net/history.html

Submission Guidelines

Submission Link: https://www.easychair.org/my/conference?conf=pesa2026

Please select Special Session 7 after accessing the submission system.

Full Paper Template **Abstract Template**

Note:
~Full Paper (**No less than 4 pages normally, 10 pages maximum. 5-6 pages are recommended**, including all figures, tables, and references)
~Abstract (Within 300 words)
~Official language is **English** in paper/abstract writing and presenting
~Download the Full Paper/Abstract Template for proceedings and read **guidelines**.

Contact US

Conference Secretariat: Lynn S.L. Gong
Email: pesa_secretariat@bmail.org
Conference Website: www.icpesa.net
Special Session Page: https://www.icpesa.net/special-session-7.html

The above email address is PESA' s sole official contact. Should you receive any suspicious email purporting to be from PESA using an unofficial channel, please disregard it and notify us promptly.

Co-Sponsored by Nanyang Technological University Singapore · IEEE

Patrons SIT Singapore Institute of Technology · NUS National University of Singapore · SUTD Singapore University of Technology and Design · CPE Nanyang Technological University Center of Power Engineering

Media Partner 中国电工技术学会 China Electrotechnical Society

Bronze Sponsor 电灵科技 | VoltAura Tech · Xnergy Autonomous Power Technologies