

2026 11th International Conference on Power Electronics Systems and Applications



Important Dates

Submission Deadline	June 25, 2026
Notification Deadline	July 25, 2026
Registration Deadline	August 30, 2026

Special Session 3: Primary-Side Control Technologies for Wireless Power Transfer Systems

This Special Session focuses on recent advances and emerging trends in primary-side control for wireless power transfer (WPT) systems. With the rapid development of WPT technologies in applications such as consumer electronics, medical implants, electric vehicles, drones, and underwater systems, there is an increasing demand for control methods that can simultaneously achieve high efficiency, strong robustness, compact receiver design, and reliable operation. Recent industrial developments, including the evolution of the Qi2 standard, further emphasize the importance of achieving both compatibility and optimal charging performance in next-generation WPT systems.

Primary-side control has attracted significant attention as a promising solution to these challenges. By transferring most control functions to the transmitter side, primary-side control can simplify receiver circuits, reduce system cost and power consumption, eliminate extensive wireless communication requirements, and improve system robustness against electromagnetic interference. These advantages make it particularly suitable for applications where receiver size, reliability, and operational stability are critical.

The scope of this Special Session includes, but is not limited to, primary-side control strategies, communication-free control methods, efficiency optimization, receiver simplification, foreign object detection, dynamic wireless charging, high-power WPT systems, compact receiver applications, and emerging industrial and biomedical applications. The session aims to provide an interdisciplinary platform for researchers and engineers to exchange innovative ideas and discuss future directions in advanced WPT control technologies.



Chair: Junming Zeng

Nanyang Technological University, Singapore



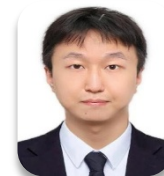
Co-Chair: Xiaosheng Wang

City University of Hong Kong, China



Co-Chair: Yuzhi Yang

City University of Hong Kong, China



Co-Chair: Kaiyuan Wang

Nanyang Technological University, Singapore

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.**



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: 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 3** 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-3.html>

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