



2025 International Conference on Power Conversion and Control Engineering

2025 IEEE International Conference on Power Conversion and Control Engineering will be held in Guangzhou, China on November 14-16, 2025, which will be sponsored by Guangdong University of Technology, China. The conference will focus on the application and innovation of power conversion technologies and control engineering, including efficient energy conversion systems, smart grid technologies, and power systems. It will also emphasize the sustainable development of control engineering. With a diverse range of technical sessions, keynote speeches, and interactive discussions, PCCE 2025 aims to bring together experts and practitioners to explore the latest advancements in these fields, fostering collaboration and knowledge exchange to drive innovation in power conversion and control solutions for the future.

Topics

Submission can belong to the below field, but not limited:

Track 1: Power Conversion Systems and Design

- Power Electronics for Renewable Energy Systems
- Power Converter Design and Modeling
- Power Conversion Topologies and Circuit Design
- High-Efficiency Power Converters and Inverters
- Power Conversion for Industrial Applications

Track 2: Control Systems and Power Management

- Advanced Control Strategies for Power Systems
- Control of Power Converters and Inverters
- Power Flow Control and Optimization
- Smart Grid Control and Integration
- Automation and Control in Power Systems

Track 3: Power Electronics for Electric Vehicles

- Electric Vehicle Powertrain Technologies
- Battery Management and Charging Infrastructure
- Power Management for Electric and Hybrid Vehicles
- Vehicle-to-Grid (V2G) and Grid Integration
- Power Conversion Systems for EVs and Charging Stations

Track 4: Energy Storage and Power Conversion

- Energy Storage Systems and Power Electronics
- Battery Energy Storage and Management
- Supercapacitors and Flywheels for Energy Storage
- Power Conversion for Storage Systems
- Energy Harvesting Techniques and Applications

Track 5: Semiconductor Devices and Materials

- Wide Bandgap Semiconductors in Power Conversion
- Advanced Power Devices and Power Switching
- High-Frequency Power Electronics and Devices
- Power Electronics for High-Voltage Applications
- Emerging Materials for Power Electronics

Track 6: Power Electronics in Smart Grids

- Smart Grid Technologies and Power Conversion
- Power Distribution and Grid Management
- Power Quality and Grid Synchronization
- Microgrids and Distributed Energy Resources
- Energy Management Systems for Smart Grids

Track 7: Reliability, Fault Diagnosis, and Protection

- Fault Diagnosis and Prognostics in Power Systems
- Reliability Analysis and Fault-Tolerant Systems
- Protection and Safety in Power Conversion Systems
- Cybersecurity in Power Electronics and Control
- Predictive Maintenance in Power Systems

Track 8: Emerging Applications and Technologies

- Power Electronics for Electric Aircraft and Marine Systems
- Advanced Power Electronics for Data Centers
- High-Efficiency Power Conversion in Consumer Electronics
- Power Electronics for Robotics and Automation
- Quantum Computing and AI in Power System Control

Committee

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Renquan Lu, Vice President, Guangdong University of Technology, China

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Publication

All the papers will be strictly peer-reviewed after submission. Accepted papers will be published in the conference proceedings.

Paper Submission

Full paper submission is compulsory for publication. With presentation only purpose, please just submit an abstract.

Electronic submission system: <https://easychair.org/conferences/?conf=pcce2025>

Template Link(docx): <https://www.icpcce.org/file/IEEE%20Template.docx>

Template Link(Latex): <https://www.icpcce.org/file/IEEE-conference-proceeding-Latex.rar>

Register Link: <https://confsys.icconf.org/register/pcce2025>

Important Dates

Submission Deadline: July 15, 2025

Notification Date: August 10, 2025

Author Registration Deadline: August 25, 2025

Listener Registration Deadline: November 7, 2025

Contact us

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