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25 – 27 August 2027
Shanghai New International Expo Centre, China

PCIM Asia Shanghai – International Exhibition and Conference for Power Electronics, Intelligent Motion, Renewable Energy and Energy Management

Call for Paper 2027

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» Being able to identify the industry's development trends, this makes the conference even more important for industry players to focus on developing the right products and technologies to meet the demands of the future. «

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As the leading international exhibition and conference for power electronics, the PCIM Asia Shanghai Conference is the international meeting point for industry and academia. This combination is what makes this event unique.

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As a speaker at the PCIM Asia Shanghai Conference, you will draw the attention of more than 500 participants to your research topic. Do take the opportunity to present your publication in Shanghai and enter into direct exchange on your topic with representatives both from industry and academia!

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- Visibility by presenting your scientific work to more than 500 participants.
- Direct feedback on your topic from experts of industry and academia.
- Networking and making new valuable contacts in the power electronics community.
- Market overview at the highly relevant exhibition with all representatives from the industry.

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Deadlines to note

- Submission of abstract until **4 March 2027**
- Notification of acceptance in **May 2027**
- Submission of full paper before **20 June 2027**

* The presentation language is ENGLISH

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Academia	Industry
RMB 750 per paper	RMB 1,500 per paper

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Award Winners 2026

BEST PAPER AWARD WINNER

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Low-Voltage p-GaN Gate HEMTs on 200-mm GaN-on-Si Platform with Record-Low $R_{ON,SP}$ and $R_{ON} \times Q_G$ for Advanced AI Power Delivery

Yuhao Wang, Yu Shi, Yan Cheng, David Zhou, Xinying Huang, Yu Zhang, Changan Li, Zidong Cai, Haolin Hu, Wei Zeng, Xiaoping Wang, Yuxi Wan, Shenzhen Pinghu Laboratory, China
Yan Cheng, Zongjie Zhou, Yat Hon Ng, Kevin J. Chen, The Hong Kong University of Science and Technology, China

UNIVERSITY SCIENTIST AWARD

pcim ASIA SHENZHEN University Scientist Award

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- Non-Destructive Bond Wire Failure Detection in SiC Power Transistors Using Reflectometry Signals
  Valentyna Afanasenko, University of Stuttgart, Germany
- A Solid-State High-voltage High-frequency Pulse Power Supply with Adjustable Pulse Speed for Multi Load Types
  Xin Li, National Key Laboratory of Electromagnetic Energy, Naval University of Engineering, China
- A Three-Module Parallel Megahertz Inverter System with Wide Power Regulation Range
  Xinyi Yan, Harbin Institute of Technology, China
- A Dual-Symmetric S-Channel Composite Heatsink for High-Reliability PEBB Modules
  Jiahao Zheng, Zhejiang University, China
- A Robust PPO-based Control Scheme for 1 MHz DC-DC Converters with Multi-Domain Disturbance
  Chuanchuan Liang, Southeast University, China

YOUNG ENGINEER AWARD WINNER

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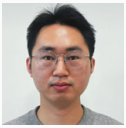

Lightweight Arc Fault Detection by Optimized Machine Learning with Multi-dimensional Features

Yanzeng Wen, ASTRI Science and Technology Research (Shenzhen) Company Limited, CN
Victor Cheung, Hong Kong Applied Science and Technology Research Institute, CN

EXCELLENT POSTER AWARD

pcim ASIA SHENZHEN Excellent Poster Award

This award is sponsored by: SwissSEM

- **Xin Yuan,** Zhuzhou CRRC Times Semiconductor Co., Ltd., China
  900V high junction temperature and high reliability SiC MOSFET for Automotive Drive Applications
- **Hao Zhang,** Infineon Technologies China Co. Ltd., China
  Influence and Analysis of Different Device Modeling and Optimization on Tvj Calculation of SiC MOSFET under Extreme Operating Conditions
- **Feng Li,** China National Electric Apparatus Institute Co., Ltd., China
  Effect of Humidity on the Reliability of Next-generation Chip Embedded PCB Packaging
- **Wenping Zhang,** Infineon, China
  Application of Gallium Nitride (GaN) Bidirectional Switches (BDS) in Single-Stage Cycloconverter for Micro PV and Storage Systems
- **Fan Zhang,** Shenzhen Power Bell Technology Co., Ltd, China
  A Power Converter Hardware-in-the-Loop System for Energy-Domain AI Evaluation
- **Yanzeng Wen,** ASTRI Technology Research (Shenzhen) Co., Ltd.,, China
  Magnetic self-alignment for high power wireless charging applications
- **Xinyue Li,** Tongji University, China
  Thrust Ripple Suppression of Symmetric Dual Three-Phase Linear Motor Based on Zero Vectors Optimization
- **Rui He,** Harbin Institute of Technology, China
  Research on Online Apparent Inductance Identification Method for PMSMs Based on dq-Axis Coupling Suppression
- **Xi Rao,** Tongji University, China
  Fault-Tolerant Model Predictive Current Control of Dual Three-Phase PMSM Based on Virtual Vectors

Conference topics

1. Advanced Power Semiconductors

1.1 High Power Semiconductors
1.2 MOSFETs, IGBTs, FREDs & Schottkys
1.3 Power Modules and Power Hybrids
1.4 SiC Devices
1.5 GaN Devices
1.6 Other Wide Bandgap Devices
1.7 Power Supply Control IC and Power Management ICs
1.8 Gate Driver and Device Protection
1.9 IPM and Power Electronic Building Blocks

2. Packaging and Reliability

2.1 Packaging and Interface Technologies
2.2 Advanced Cooling Systems
2.3 Thermal Management and Simulations
2.4 Power Electronic Components Reliability and Life Time Prediction
2.5 Power Embedding
2.6 High Power Density Designs
2.7 Design Automation and Methodology

3. Passive Components and Integration

3.1 Higher Frequency and Low Loss Materials & Techniques for Inductors and Capacitors
3.2 Planar Inductors and Transformers and Thin Film Magnetic Component
3.3 Filters and Passive Integration

4. AC/DC Converter

4.1 High Efficiency/High Density Power Converters/Inverters
4.2 Resonant and Quasi Resonant Topologies for Power Supplies
4.3 Stand-alone Power Supplies (Adapters) and on Board Supplies
4.4 New Topologies (Single Switch, Phase Shift, ZVS, ZCS, ZVZCS)

5. DC/DC Converter

5.1 DC/DC Converter Topologies for Enhanced Efficiency and Control
5.2 Synchronous Rectification
5.3 Smart Battery Management Concepts
5.4 Point of Load Converters
5.5 New Topologies for Distributed Power Supply Systems (Single or Multi- Stage Architecture, ZVS, ZCS, ZVZCS)

6. Digital Power Conversion

6.1 PMBus and other Digital Power Control Protocols
6.2 Digital Control for Power Converters
6.3 Advantages of Digital Power Conversion and Associated Challenges
6.4 System on a Chip (SOC)
6.5 Energy Harvesting

7. Motor Drive & Motion Control

7.1 Home Appliances
7.2 Small Power Motor "General Purpose Drive" with Highly Sophisticated Control Strategies and Low Cost Solutions
7.3 New Converter/Inverter Types for Single- and Three Phase Systems
7.4 Advanced Motor Concepts for Industrial Application and Traction Drives
7.5 New Control Architectures DSP, Microcontroller or FPGA
7.6 Advanced Sensor Concepts for Motor Drives
7.7 Intelligent Motion Control and Architecture

8. High Frequency Power Electronic Converters and Inverters

8.1 Thermal Design, Packaging and EMI Issues
8.2 Sensors Specific to Power Electronics (e.g. Voltage, Current, Power, Frequency, Phase, Temperature)
8.3 Techniques to Reduce Switching Losses to Improve Efficiency and Reduce Size and Weight
8.4 Wireless Power Transfer

9. Automotive Power Electronics and Electrified Transportation

9.1 Hybrid / Electric Vehicle
9.2 MOSFET, IGBT and SiC Modules in Motor Traction and Propulsion Applications
9.3 DC/DC Conversion in Transportation Systems
9.4 Bidirectional DC/DC Converters
9.5 Electronics for Powertrain and Power Management
9.6 Energy Storage and Management, including Battery Types, Super Capacitors and Fly Wheels
9.7 DC Circuit Breaker
9.8 Charging Station Technology

Conference topics

10. System Reliability

10.1 Reliability and Health Management of Power Electronic Components and Systems

10.2 Fail-safe and Fault-tolerant Applications

10.3 Redundancy Concepts in Power Electronics

10.4 Life Cycle Design and Cost Analysis

11. Power Quality Solutions

11.1 UPS Systems and Inverters

11.2 Active Power Filter (APF), DVR, SVG

11.3 Energy Storage System (Battery Technologies, Flywheel, Super (ultra) Capacitors)

11.4 Harmonics and Power Factor Correction

11.5 Electromagnetic Compatibility and Immunity

12. Smart Grid Power Electronics

12.1 Grid Inverter Control

12.2 Battery Charging and V2G

12.3 Energy Storage System and Control

12.4 Micro-Grid

12.5 Solid State Transformers

12.6 Medium Voltage Multilevel Converters

12.7 Modular Multilevel Converters

12.8 Novel Converter Topologies

12.9 Wind Energy Systems

12.10 Solar and Photovoltaic Energy Systems

12.11 Communication, Cyber Security and Artificial Intelligence

13. Power Electronics in Transmission Systems

13.1 FACTS

13.2 Converters for Offshore/Onshore HVDC Links

13.3 Power Generation, Transmission and Distribution

13.4 DC Grids

13.5 HVDC Systems

13.6 Digital Twin for Transmission Equipment

14. AI in Power and Energy Systems

14.1 Smart Grid Management using AI
14.2 AI in power Load Balancing
14.3 Intelligent Fault Detection and Diagnostics
14.4 Predictive Maintenance of Electrical Infrastructure

15. AI in Renewable Energy Systems

15.1 Intelligent control of battery energy storage systems

16. AI in Electrical Machines and Drives

16.1 Machine Learning for fault diagnosis in induction motors
16.2 Predictive maintenance of electrical machines

17. AI in Power Electronics

17.1 AI based control of DC-DC And AC-AC Converters
17.2 Intelligent inverter design for grid-tied applications
17.3 Fault detection in power electronic circuits using AI
17.4 Predictive thermal management in power modules
17.5 AI-optimized switching strategies to reduce harmonics

18. AI in power Quality Monitoring

18.1 AI for classification of power failure probability

19. AI in Electric Vehicle (EV) Power Systems

19.1 Smart charging infrastructure using AI
19.2 Battery State of Health (SoH) and State of Charge (SoC) prediction
19.3 AI-based powertrain optimization
19.4 Load management of EV charging in smart grids

Prominent Conference Speakers in 2026



* No specific order

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