

Conference Agenda

Wednesday, August 26

Wednesday, August 26			
09:00 – 09:40	Conference Room 14B	Conference Opening & Award Ceremony Conference Director: Leo Lorenz, ECPE, DE	
09:40 – 10:20	Conference Room 14B	Keynote 1: Challenges and Innovations in Data Center Power Systems to Meet the AI Power Demand Speaker: Dehong Xu, Zhejiang University, CN	

Thursday, August 27

Thursday, August 27			
09:30 – 10:10	Conference Room 14B	Keynote 2: Semiconductor contribution to performance & efficiency of Automotive Traction Inverters Speaker: Mark Nils Muenzer, Infineon Technologies AG, DE Chair: Gourab Majumdar, Mitsubishi Electric Corporation, JP	
10:10 – 10:25	Coffee Break & Room Change		
10:25 – 12:15	Conference Room 14B Special Session 2: AI in Power Electronics Chair: Jianing Wang, Hefei University of Technology, CN	Conference Room 14A Oral Session 3: Advanced Power Semiconductor Devices Technology Chair: Norbert Pluschke, CN-iCuTech Semiconductor, HKSAR, CN Yi Tang, Starpower Semiconductor, CN	
12:15 – 13:30	Lunch Break		
13:30 – 15:00	Poster Dialogue Session 4 High Performance Power Conversion Chair: Lie Xu, Tsinghua University, CN	Poster Dialogue Session 5 Motor Drive & Motion Control Chair: Jinsong Kang, Tongji University, CN Gaosheng Song, Mitsubishi Electric & Electronics (Shanghai) Co., Ltd.	Poster Dialogue Session 6 Automotive Power Electronics and Electrified Transportation Chair: Guoqiang Zhang, Harbin Institute of Technology, CN Gang Yao, Shanghai Maritime University, CN
15:00 – 16:50	Conference Room 14B Oral Session 4: AI in Power Electronics Chair: Jinjun Liu, Xi'an Jiaotong University, CN Lifeng Chen, Infineon Technologies, CN	Conference Room 14A Oral Session 5: Packaging and Reliability for Power Semiconductors Chair: Naoto Fujishima, Fuji Electric, JP Xuhui Wen, Institute of Electrical Engineering, Chinese Academy of Sciences, CN	

Friday, August 28

Friday, August 28		
09:30-10:10	Conference Room 14B	Keynote 3: Enabling the Medium-Voltage Revolution: Innovations in 10kV SiC Power Packaging Platforms Speaker: Ziyang Gao, Hong Kong Microelectronics Research and Development Institute, HKSAR, CN Chair: Dong Li, Infineon Technologies Asia Pacific Pte Ltd, SG
10:10 – 10:25	Coffee Break & Room Change	
10:25 – 12:15	Conference Room 14B Oral Session 6: Motor Drives and Electrified Transportation Chair: Yongdong Li, Tsinghua University, CN Dapeng Zheng, Shenzhen Hopewind Electric, CN	Conference Room 14A Oral Session 7: Power Electronics for Smart Grid Chair: Meiqin Mao, Hefei University of Technology, CN Jianping Ying, Delta Electronics, CN
12:15 – 13:30	Lunch Break	
13:30 – 18:00	The PCIM Asia Shenzhen Tour *only by invitation, First in first served	



Conference

Wednesday, August 26, 2026 | Shenzhen World Exhibition and Convention Center, China | Conference Room 14



Morning Session

9:00 a.m.



Conference Room 14B

Conference Opening & Award Ceremony

Conference Director: Leo Lorenz, ECPE, DE



9:40 a.m.

Conference Room 14B

Keynote 1

Challenges and Innovations in Data Center Power Systems to Meet the AI Power Demand



Speaker:

Dehong Xu,
Zhejiang University, CN



Chairperson:

Leo Lorenz,
ECPE, DE

10:20 a.m.

Tea Break



10:35 a.m.

Conference Room 14B

Special Session1

Power Supply for AI Data Center



Chair's opening speech

Chairperson:

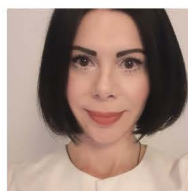
Yen-an Chen,
Zhejiang University, CN



10:45 a.m.

Challenges and Trends of Energy Efficiency Solutions for AI Data Center

Jinfa Zhang,
Delta Electronics, CN



11:10 a.m.

Powering the Future of AI: Next-Generation Data Center Architectures

Ilknur Colak,
Schneider Electric, DE



11:35 a.m.

Powering the AI Revolution: Power Supply Units for next Generation AI Data Centers

Diogo Varajao,
Infineon Technologies



12:00 p.m.

Topology and Magnetics for Vertical Power Delivery

Yen-an Chen,
Zhejiang University, CN

12:25 a.m.

Lunch Break & Room Change





Afternoon Session

Poster Dialogue Session

13:30 p.m-15:00 p.m | Hall 14 Poster Gallery

Poster Dialogue Session 1 Power Devices



Chairperson: Yijen Chan,
Cyntec Co., Ltd, TW, CN



Chairperson: Haihui Luo,
Zhuzhou CRRC Times Semiconductor,
CN



01
**A Simulation Investigation into HPD
Power Modules**
Lei Zhang, Chengdu Semi-Future Technology
Co., Ltd., CN



02
**900V high junction temperature
and high reliability SiC MOSFET for
Automotive Drive Applications**
Xin Yuan, Zhuzhou CRRC Times
Semiconductor Co., Ltd., CN



03
**High power density 1700V/1000A
RC IGBT module for Wind energy
application**
Hai Cai, Zhuzhou CRRC Times Semiconductor
Co., Ltd., CN



04
**A New 6 Inch IGCT Platform for up
to 8.5 kV with Outstanding Current
Capability**
Christian Winter, Hitachi Energy Ltd.
Semiconductors, CH



05
**Robustness Assessment of
Parallely Operated 4.5kV/1500A
IGBT Modules for HVDC
Applications**
Shota Saito, Mitsubishi Electric Corporation, JP



06
**Research on Current Sharing and
Optimization of Three-Chip Parallel
IGBT Modules During Switching
Process**
Rui Li, Chengdu Semi-Future Technology Co., Ltd.,
CN



07
**High-Temperature Design
Considerations for Silicon Based
Automotive Inverters with 750V
EDT HiT**
Nebojsa Levkovski, Infineon Technologies AG,
DE



08
**New-Generation 1400V U4 IGBT
Module for Higher Power Density
PV Inverter Applications**
Hanwen Deng, Zhuzhou CRRC Times
Semiconductor Co., Ltd., CN



09
**8th Generation LV100 IGBT Module
for High Power Central-type PCS**
Bo Hu, Mitsubishi Electric & Electronics
(Shanghai) Co., Ltd., CN



10
**Beyond 4PP: Non-Contact
Electrical Monitoring for Power
Module Materials**
Bo Chen, SURAGUS GmbH, CN



11
**New Generation Low Inductance
6500V/600A Full SiC Power Module
for Railway Traction Application**
Guangyuan Qin, Zhuzhou CRRC Times
Semiconductor Co., Ltd., CN



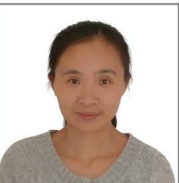
12
**Design Considerations of Active
Neutral Point Clamped Inverter for
Energy Storage System**
Andrew Yang, onsemi, CN



13
**Performance Benchmarking of Si
IGBT and SiC MOSFET in a 1200 V /
600 A Automotive EVD Power
Module**
Tommaso Stecconi, SwissSEM Technologies
AG, CH



14
**A Solid-State High-voltage High-
frequency Pulse Power Supply with
Adjustable Pulse Speed for Multi-
Type Loads**
Xin Li, Naval University of Engineering, CN



15
**Effects of Gate Stress on
Parameter Stability and Switching
Losses in SiC MOSFETs**
Wenqi Zhou, Bosch (China) Investment Ltd.,
CN



16
**Impact of Threshold Voltage Mismatch,
Layout Symmetry and External Gate
Resistance on Current Sharing in
Parallel SiC MOSFET in Half Bridges**
Nima Lotfi, Nexperia Germany GmbH, DE



17
**48 V GaN Motor Drive with
Diode-Less Operation and Short
30 ns Dead Time for 70A/100kHz
systems**
Filippo Scrimizzi, Nexperia B.V., IT



18
**Research on Packaging Structure of T-
Type Three-Level GaN/SiC Hybrid
Power Module**
Yuhui Kang, Institute of Electrical Engineering,
Chinese Academy of Sciences, CN



19
**Optimization of Gate Driver Current
Shaping to Enhance Switching
Performance of SiC-MOSFETs**
Lan Fang, Robert Bosch GmbH, CN

Poster Dialogue Session 2 Power Devices, Packaging and Reliability



Chairperson: Yong Kang,
Huazhong University of Science and
Technology, CN



Chairperson: Wei Jing,
Semikron Danfoss, CN



20
**Design Considerations for GDIC Slew-
Rate Control: Voltage Peak Suppression
and Temperature/Current-Driven
Threshold Variation**
Jaewon Choi, Infineon Korea, KR



21
**Development of a New Package
Supporting Both Through Hole and
Surface Mount Types for Fan
Applications**
Masafumi Jochi, Mitsubishi Electric Corporation,
JP



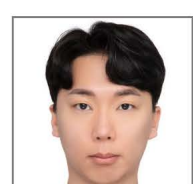
22
**New automotive grade 1200 V SiC
MOSFET-based Intelligent Power
Module for auxiliary motor drive
applications on BEV**
Soo Hyuk Han, Infineon Technologies Korea
Co., LLC, KR



23
**Compact DIIPM used in dual axes
servo system**
Siqing Lu, Mitsubishi Electric & Electronics
(Shanghai) Co., Ltd., CN



24
**Thermal correlation among junction,
NTC, and heatsink in 1200 V
automotive-grade CIPOS™ Maxi IPM
for automotive auxiliary motor drives**
Hyoungsub Jo, Infineon Technologies Korea,
KR



25
**Efficiency and Thermal
Performance Comparison of
SiC-MOSFET and Si-IGBT IPMs in
the SPM31**
Seonghyeon Kim, onsemi, KR



26
**System-Level Short-Circuit Failure
Mechanisms of IPMs in Practical
Motor-Drive Applications**
Yuquan Su, MiSilicon Semiconductor
Technologies Co., Ltd., CN



27
**Junction Temperature Evolution of
IGBTs under Power Cycling
conditions**
Juyoung Kim, onsemi, KR



28
**Non-Destructive Bond Wire Failure
Detection in SiC Power Transistors
Using Reflectometry Signals**
Valentyna Afanassenko, University of Stuttgart,
DE



29
**Advanced Thermal Management
Solutions for Enhanced Compact
3D Power SiP Technologies**
Po-An Lin, Advanced Semiconductor Engineering
Inc, CN



30
**Research on the Optimal
Combination of Plasma Cleaning for
Power Modules under Square Wave
Voltage**
Yuntian Gao, Xi'an Jiaotong University, CN



31
**Reliability and Manufacturing
Comparison of Flexible and
Straight Pin Interconnects for Pin-
Array Power Modules**
Sven Matthias, SwissSEM Technologies AG, CH



32
**Application of Laser Welding
Technology in Power Module**
Yi Chen, Advanced Semiconductor
Engineering, INC, CN



33
**Ceramic Packaging Technology for
250 ° C Medium High-Voltage Silicon
Carbide Power Electronic Devices**
Wenjie Wu, Xi'an Jiaotong University, CN



34
**Thermal Characterization and Design
Optimization of a Double Sided Cooled
SiC Power Module for Automotive
High Power Density Inverters**
Alex Widhalm, Infineon Technologies AG, DE



35
**Modeling Pressure Drop in Self-
Circulating Phase-Change Cooling
Systems for HVDC Converter Valves**
Bendong Ma, Institute of Electrical Engineering,
Chinese Academy of Sciences, University of
Chinese Academy of Sciences, CN



36
**Influence and Analysis of Different
Device Modeling and Optimization
on Tvj Calculation of SiC MOSFET
under Extreme Operating Conditions**
Hao Zhang, Infineon Technologies China Co.
Ltd., CN



37
**Effect of Humidity on the Reliability of
Next-generation Chip Embedded PCB
Packaging**
Feng Li, China National Electric Apparatus Institute
Co., Ltd., CN



38
**A Newly 6-in-1 SiC Power Module
Electro-Thermal-Reliability Co-
Analysis**
Feng Zhu, Beijing NEXIC Technology Co., Ltd,
CN



39
**Research and Development of a Low -
Inductance, High - Power - Density Power
Module Based on Transfer Molding
Encapsulation Technology**
Yuanjian Liu, ZHUZHOU CRRC TIMES
semiconductor CO.,LTD, CN



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**An Overview of High Heat Capacitor
Materials for eMobility Applications**
Adel Bastawros, SABIC, USA



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Afternoon Session

Poster Dialogue Session

13:30 p.m-15:00 p.m | Hall 14 Poster Gallery

Poster Dialogue Session 3 Smart Grid and AI



Chairperson: Miao Zhu, Shanghai Jiao Tong University, CN



Chairperson: Teng Liu, China Southern Power Grid Electric Power Research Institute, CN



41
Application of Easy3B Module with new 7th Fast IGBT in String and Industrial & Commercial Energy Storage Systems
Kai Zhao, Infineon, CN



42
A Zero-Vector-Based DC Chopper Control Strategy for Current-Source Converter Wind Turbines to Enhance LVRT Capability
Junye Chen, Rostock University, CN



43
Reactive Power Support of AC Motor Loads under Low Voltage Ride-Through
Xin Qi, University of Science and Technology Beijing, CN



44
A Review of Global V2G Research from an Energy Technology Economics Perspective
Yueran Ni, Shanghai University of Engineering Science, CN



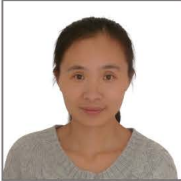
45
Application of Gallium Nitride (GaN) Bidirectional Switches (BDS) in Single-Stage Cycloconverter for Micro PV and Storage Systems
Wenping Zhang, Infineon, CN



46
A Power Converter Hardware-in-the-Loop System for Energy-Domain AI Evaluation
Fan Zhang, Shenzhen Power Bell Technology Co., Ltd., CN



47
TD3-Based Current Control for Grid-Tied Inverters: Markov-State Design and Per-Unit Normalization
Licong Wu, Harbin Institute of Technology, CN



49
Analysis of Over-Current Withstand Capability of Discrete SiC MOSFETs for Interrupting MOV Paths in Solid-State Circuit Breakers
Wenqi Zhou, Bosch (China) Investment Ltd., CN



49
Coordinated network protection in DC grid
Xin Li, ASTRI Technology Research (Shenzhen) Co., Ltd.,



50
A Solid-State Contactor for DC Electrical Power Systems
Yury Skorokhod, Transconverter, RU

Oral Session 15:00 p.m-16:50 p.m

Conference Room 14B

WBG Power Semiconductor Devices Chair's opening speech

15:00 p.m.



Chairperson: Bo Zhang, University of Electronic Science and Technology of China, CN



Chairperson: Masahiro Sasaki, Fuji Electric Co., Ltd., JP

Conference Room 14A

High Efficiency Power Converter Chair's opening speech

15:00 p.m.



Chairperson: Min Chen, Zhejiang University, CN



Chairperson: Teng Wu, Schneider Electric, CN



15:10 p.m.
Time-variant and Hysteresis Effects in the Thermal Characterization of Wide Band Gap Components
Gabor Farkas, Siemens DISW, HU



15:10 p.m.
TLVR-Enhanced Interleaved Class-D Power Amplifier for High-Bandwidth Motor Emulation
Wei Cao, Harbin Institute of Technology, CN



15:35 p.m.
All-SiC Power Modules Using 3rd-Gen Trench SiC MOSFETs with Expanded Current Ratings and SBD-Less Architecture
Song Chen, Fuji Electric (China) Co.,Ltd., CN



15:35 p.m.
Development of A 3-level ANPC 800kW-class Power Stack based on 1200V IGBT Module for Renewable Energy Application
Zhengfeng Li, Mitsubishi Electric Corporation, JP



16:00 p.m.
Overload Investigation of 3.3kV SiC-MOSFET Power Module for Medium-Power Applications
Bochen Liu, Hitachi, CN



16:00 p.m.
A Three-Module Parallel Megahertz Inverter System with Wide Power Regulation Range
Xinyi Yan, Harbin Institute of Technology, CN



16:25 p.m.
New 6.5 kV IGBT Press-Pack Module and FRD for Multi-GW VSC- HVDC Applications
Evgeny Tsyplakov, Hitachi Energy Ltd., CH



16:25 p.m.
A Wide Bandgap (WBG) Based Bidirectional LLC Converter for Energy Storage Systems (ESSs)
Wenping Zhang, Infineon, CN



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Morning Session

9:30 a.m. Conference Room 14B

Keynote 2

Semiconductor contribution to performance & efficiency of Automotive Traction Inverters



Speaker:
Mark Nils Muenzer,
Infineon Technologies AG, DE



Chairperson:
Gourab Majumdar,
Mitsubishi Electric Corporation, JP

10:10 a.m. Coffee Break & Room Change 

Special Session 2 10:25 a.m-12:15 p.m

Conference Room 14B

AI in Power Electronics

Chair's opening speech

10:25 a.m.



Chairperson:
Jianing Wang,
Hefei University of Technology, CN

Oral Session 10:25 a.m-12:15 p.m

Conference Room 14A

Advanced Power Semiconductor Devices Technology

Chair's opening speech

10:25 a.m



Chairperson: Norbert Pluschke,
CN-iCuTech, HKSAR, CN



Chairperson: Yi Tang,
Starpower Semiconductor, CN



10:35 a.m.
From Local Optimization to General Design Platform — An Intelligent Practices and Demo for Power Electronic Converters and Component Design
Jianing Wang, Hefei University of Technology, CN



11:00 a.m.
AI for Power Electronics Design: From Smart Algorithms to Intelligent Systems
Yu Chen, Huazhong University of Science and Technology, CN



11:25 a.m.
AI-Enabled Optimization of Modulation Techniques in Power Electronics
Weihao Hu, University of Electronic Science and Technology of China, CN



11:50 a.m.
Understanding, Not Just Search — Engineer-Experience-Driven Vertical Agents for Semiconductors
Ying Wu, Hangzhou Zhuomai Intelligent Technology Co., Ltd., CN



10:35 a.m.
Next-Generation 2300 V IGBT Chipset for Renewable Energy Applications
Nick Schneider, SwissSEM Technologies AG, CH



11:00 a.m.
Performance of a New Power MOSFET Technology Designed to Serve the Requirements of Motor Drive Applications
Owen Song, Infineon Technologies, CN



11:25 a.m.
Low-Voltage p-GaN Gate HEMTs on 200-mm GaN-on-Si Platform with Record-Low RON, SP and RON×QG for Advanced AI Power Delivery
Yuhao Wang, Shenzhen Pinghu Laboratory, CN



11:50 a.m.
Temperature Dependent Characterization of the Dynamic RDS,on of Medium Voltage GaN Power HEMTs
Maximilian Goller, Chemnitz University of Technology, DE

12:15 a.m. Lunch Break 



Conference

Thursday, August 27, 2026 | Shenzhen World Exhibition and Convention Center, China | Conference Room 14



Afternoon Session

Poster Dialogue Session

13:30 p.m-15:00 p.m | Hall 14 Poster Gallery

Poster Dialogue Session 4 High Performance Power Conversion



Chairperson: Lie Xu,
Tsinghua University, CN



51
Integrated Matrix Transformer with Loss Optimization for High-Efficiency & High-Power-Density Asymmetric Half-Bridge Resonant Converters
Xiaojun Liang, infineon, CN



53
Power Conversion Solutions for Next Generation 2000Vdc to 3000Vdc PV Inverter
Heng Wang, Infineon Integrated Circuit (Beijing) Co., Ltd., CN



55
Fast-Settling Dual-Loop 5 kV PSFB-CW HVDC Supply for Power Device Testing
Jing Tian, Institute of Electrical Engineering, Chinese Academy of Sciences; University of Chinese Academy of Sciences, CN



57
Reduced-Order Piecewise Time-Domain Analysis of Symmetric LCL-DAB for Soft-Switching Boundary Analysis and Operating-Point Design
Kaiyin Mo, Huazhong University of Science and Technology, CN



59
Design and Development of a Low-Ripple,Low-Power High-Voltage Power Module for Spaceborne Transition Radiation Detector
Yalin Liu, Aerospace Information Research Institute, Chinese Academy of Sciences, CN



61
A Control Method for Input Voltage Feedforward Using Secondary-Side PWM Waveforms in High Power Density Isolated DC-DC Brick Power Modules
Shilin Guo, HEFEI INSTITUTE OF TECHNOLOGY, CN



63
Metal Foreign Object Detection Method in Wireless Power Transfer Systems Based on circuit currents
Nikolay Kalugin, LLC Energet, RU



52
Control of a GaN-Based T-Type Three-Level Converter
Tianyu Zhao, Institute of Electrical Engineering, Chinese Academy of Sciences, CN



54
DPWM-Based Synergetic Control for Wide-Range Three-Phase Voltage DC-Link Converters
Yushuo Pei, Hebei University of Technology, CN



56
Current Balancing Control for Microsecond-Ranged Pulsed Current Generation in Laser Applications
Ziyi Xu, Hefei University of Technology, CN



58
Modeling and Optimal Control Strategy for LCC Resonant Converters Based on State Plane Analysis
Shuchen Yao, Huazhong University of Science and Technology, CN



60
Design of a Hybrid EMI Filter for High-Voltage High-Power Mo-tor Drive Systems
Kun Ai, Institute of Electrical Engineering, Chinese Academy of Sciences, CN



62
Magnetic self-alignment for high power wireless charging applications
Yanzeng Wen, ASTRI Technology Research (Shenzhen) Co., Ltd., CN

Poster Dialogue Session 5 Motor Drive & Motion Control



Chairperson: Jinsong Kang,
Tongji University, CN



Chairperson: Gaosheng Song,
Mitsubishi Electric & Electronics(Shanghai)Co., Ltd., CN



64
Fault-Tolerant Control for a Single Current Sensor Fault in Dual Three-Phase PMSM
Wenhao Lv, Harbin Institute of Technology, CN



66
Three-dimension Space Vector Pulse Width Modulation for Three-Phase Three-Level Series-End Winding Voltage Source Inverter
Zhixuan Luo, Tongji University, CN



68
Thrust Ripple Suppression of Symmetric Dual Three-Phase Linear Motors
Xinyue Li, TongJi University, CN



70
Speed-Dependent Electromagnetic – Thermal Analysis of LSLSM Mover
Lin Fan, Tongji University, CN



72
Deadbeat Direct Speed Control for IPMSM Based on Extended State Observer
Jinyang Cai, Harbin Institute of Technology, CN



74
MLP-PI Current Control Strategy for PMSM Considering Inverter Nonlinearity
Jinlong Li, infineon, CN



76
High Performance Sensorless Control of Permanent Magnet Synchronous Motor under Low Carrier Ratio
Kaixin Gao, Harbin Institute of Technology, CN



78
A Deadbeat Predictive Control Strategy Based on Parameter Tuning
Shan Wang, Harbin Institute of Technology, CN



65
A Low-parameter-sensitivity DPCC Algorithm Based On Reference Voltage Error Compensation
Jiaying Xu, North China University of Technology, CN



67
Polyimide-Based Isolator with Ultra-High Withstand Voltage for Motor Drivers
Yong Wang, CrossChip MicroSystems, Inc., CN



69
Research on Electromagnetic Transient Modeling Based on 12-Phase Synchronous Generator
Bowen Yu, TongJi University, CN



71
A Power Pulsations Control Design based on Digital Motor Control Processing Tehniques DSP
Nicușor Totor, CFR, RO



73
Research on Online Apparent Inductance Identification Method for PMSMs Based on dq-Axis Coupling Suppression
Rui He, Harbin Institute of Technology, CN



75
Modeling of Permanent Magnet Synchronous Motors Based on Physics-Informed Neural Network
Liangrong Sun, Tongji University, CN



77
Parameter Adaptive Deadbeat Control for Permanent Magnet Linear Synchronous Motors
Zhiyu Zhang, Harbin Institute of Technology, CN



79
Fixed-Time Consensus-Based Cooperative Speed Control for Multi-PMSM Systems with Optimal Current Regulation
Zhexi Xu, Harbin Institute of Technology, CN



Conference

Thursday, August 27, 2026 | Shenzhen World Exhibition and Convention Center, China | Conference Room 14



Afternoon Session

Poster Dialogue Session

13:30 p.m-15:00 p.m | Hall 14 Poster Gallery

Poster Dialogue Session 6 Automotive Power Electronics and Electrified Transportation

	Chairperson: Guoqiang Zhang, Harbin Institute of Technology, CN		Chairperson: Gang Yao, Shanghai Maritime University, CN
	80 A Four-Stage Model Predictive Current Control for PMSM Based on Voltage Vector Action Mode Reconstruction Weihe Jing, North China University of Technology, CN		81 Model Predictive Pulse Shifting Control Method for Permanent Magnet Synchronous Motor Based on SHEPWM Xilin Jin, North China University of Technology, CN
	82 Model Predictive Current Control of PMSM Based on Bayesian Recursive Least Squares Bing Song, North China University of Technology, CN		83 Novel observer for permanent magnet synchronous motor drive systems Ge Gao, North China University of Technology, CN
	84 Fault-Tolerant Model Predictive Current Control of Dual Three-Phase PMSM Based on Virtual Vectors Xi Rao, Tongji University, CN		85 The Information Network Arhitecture and Intelligent Motor Processing Nicușor Totor, totor pfa, RO
	86 Deadbeat Current Harmonic Suppression Optimization Strategy Based on Rotating Coordinate Frame Shan Wang, Harbin Institute of Technology, CN		87 New Generation Automotive-Grade 1500V SiC MOSFET devices for Applications with 950V bus voltage Wei Liu, Zhuzhou CRRC Times semiconductor Co., LTD., CN
	88 Enhancing Short-Circuit Evaluation of Automotive SiC MOSFET Power Modules: An Advanced Industry Approach Jiani He, Bosch (China) Investment Ltd., CN		89 Advanced Isolated Gate Driver IC for High-Power-Density SiC/Si Power Modules in xEV Applications Habu Yo, MITSUBISHI ELECTRIC CORPORATION, JP
	90 Optimized Multi-Degree-of-Freedom Modulation for a 6.6 kW Integrated OBC – LDC Charger for Electric Vehicles Chenli Zhou, Southwest Jiaotong University, CN		91 A Low-Loss Modulation Strategy for Dual Active Resonant Converters Hongze Bu, China Electronic Product Reliability and Environmental Test Institute, CN
	92 Heterogeneous Test Bench Concept for Grid-Constrained Fast DC Charging Nikolay Volskiy, Charge Evolution, RU		

Oral Session 15:00 p.m-16:50 p.m

Conference Room 14B

AI in Power Electronics

Chair's opening speech

15:00 p.m.

	Chairperson: Jinjun Liu, Xi'an Jiaotong University, CN
	Chairperson: Lifeng Chen, Infineon Technologies, CN

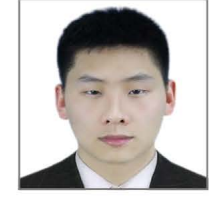
Conference Room 14A

Packaging and Reliability for Power Semiconductors

Chair's opening speech

15:00 p.m.

	Chairperson: Naoto Fujishima, Fuji Electric, JP
	Chairperson: Xuhui Wen, Institute of Electrical Engineering, Chinese Academy of Sciences, CN

	15:10 p.m. Topology-Aware Attention-Enhanced Heterogeneous Graph Convolution for MMC Fault Diagnosis Zhangtiancheng Wen, Shanghai Maritime University, CN		15:10 p.m. New Pressure Technology for SiC Power Modules Norbert Pluschke, CN-iCuTech Semiconductor Co.Ltd HongKong, HKSAR, CN
	15:35 p.m. A Novel Reinforcement Learning-based Controller for DC-DC Buck Converter Chaohong Zhang, Southeast University, CN		15:35 p.m. Application of Sintering Technology in SiC Modules Shaolun Yang, Advanced Semiconductor Engineering, Inc. (ASE), CN
	16:00 p.m. A Robust PPO-based Control Scheme for 1 MHz DC-DC Converters with Multi-Domain Disturbance Resilience Chuanchuan Liang, Southeast University, CN		16:00 p.m. Power cycling and thermal shock reliability of novel copper preforms Sri Krishna Bhogaraju, CuNex GmbH, DE
	16:25 p.m. Lightweight Arc Fault Detection by Optimized Machine Learning with Multi-dimensional Features Yue Liu, ASTRI Technology Research (Shenzhen) Co., Ltd.,		16:25 p.m. A Dual-Symmetric S-Channel Composite Heatsink for High-Reliability PEBB Modules Jiahao Zheng, Zhejiang University, CN



Conference

Friday, August 28, 2026 | Shenzhen World Exhibition and Convention Center, China | Conference Room 14



Morning Session

9:30 a.m. Conference Room 14B

Keynote 3

Enabling the Medium-Voltage Revolution: Innovations in 10kV SiC Power Packaging Platforms



Speaker:
Ziyang Gao,
Hong Kong Microelectronics Research and Development Institute, HKSAR, CN



Chairperson:
Dong Li,
Infineon Technologies Asia Pacific Pte Ltd, SG

10:10 a.m. Coffee Break & Room Change

Oral Session 10:25 a.m-12:15 p.m

Conference Room 14B

Motor Drives and Electrified Transportation

Chair's opening speech

10:25 a.m.



Chairperson: Yongdong Li,
Tsinghua University, CN



Chairperson: Dapeng Zheng,
Shenzhen Hopewind Electric, CN

Conference Room 14A

Power Electronics for Smart Grid

Chair's opening speech

10:25 a.m.



Chairperson: Meiqin Mao,
Hefei University of Technology, CN



Chairperson: Jianping Ying,
Delta Electronics, CN



10:35 a.m.
DCVO-ESO Fusion for High-Precision Position Estimation in Sensorless PMSM Drives
Linna Ji, Harbin Institute of Technology, CN



11:00 a.m.
Analysis of Two In-Phase Current Sensing Implementations for Humanoid Robotic Motor Control
Alan Lun Wai-Keung, Infineon Technologies Hong Kong Ltd., HKSAR, CN



11:25 a.m.
A Novel CMV and ZSC Simultaneous Suppression Method for Open-Winding PMSM with Common DC Bus Based on DPCC
Bowen Wang, North China University of Technology, CN



11:50 a.m.
SiC Power Module for xEV with High Power-Density, Low Stray-Inductance, and Optimized Chip Paralleling Design
Yuhang Yang, Hangzhou Silan Microelectronics Co., Ltd. CN



10:35 a.m.
Proper Design of Energy-Supporting for Sustainable Li-ion Battery Performance in Electric Vehicles
Christos Mademlis, ARISTOTLE UNIVERSITY OF THESSALONIKI, GR



11:00 a.m.
Simplified Modeling and Analysis of Multi-Phase COT Buck Converter with Overlapping Operation based on Pade Approximation
Na Yan, Institute of Microelectronics of the Chinese Academy of Sciences, CN



11:25 a.m.
Power Path Reconfiguration of a Three-Port Converter for Short-Term Overload
Peng Yang, Huazhong University of Science and Technology, CN



11:50 a.m.
Coordinated and Market-Oriented Virtual Power Plants for Enhancing Building Energy Performance
Christos Mademlis, ARISTOTLE UNIVERSITY OF THESSALONIKI, GR

12:15 p.m. Lunch Break

13:30 p.m. The PCIM Asia Shenzhen Tour