2024 International Power
Electronics
and Motion Control Conference

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IPEMC 2024-ECCE Asia

Best Special Session Organizer Award	
Nie Hou *University of Alberta*	Advanced Modulation, Control and Topology of dc-dc Converters
Kui Wang *Tsinghua University*	Topologies, Control and Applications of Multilevel Converters
Weihua Zhou *Monash University*	Advanced Modeling, Analysis, and Control of Power-electronic-based Modern Power Systems
Ke Ma *Shanghai Jiao Tong University*	Reliability, Diagnosis, Prognosis and Testing of Power Electronics
Lefei Ge *Northwestern Polytechnical University*	Innovation in Motor Drive Systems for Electric Vehicles
Zhonggang Yin *Xi'an University of Technology,*	Advanced Control of AC Motor Drives
Huimin Wang *Southwest Jiaotong University*	Reliability Oriented Electrical Machine Systems: Topology, Monitoring, and Control
Cai Chen *Huazhong University of Science & Technology*	WBG Device Packaging, Modeling and Reliability
Heng Wu *Aalborg University*	Applications of Grid-Forming Inverter-Based Resources in Modern Power Systems

🏆	**Meng Huang** *Wuhan University*	Transient Support Technique For Grid-forming Converters

Best Paper Award-First Prize

🏆	**Renan Pillon Barcelos; Nikolina Djekanovic; Drazen Dujic** *École Polytechnique Fédérale de*	**ID-16** Static and Dynamic Voltage Balancing for an IGCT-Based Resonant DC Transformer
🏆	**Kaihui Tang; Yue Hui; Ke Chen; Jiande Wu; Xiangning He** *Zhejiang University*	**ID-155** Talkative Power Conversion Strategy Based on Direct Sequence Spread Spectrum with Gold Sequence
🏆	**Ziheng Xiao; Yu Jiang; Chang Wang; Yi Tang** *Nanyang Technological University*	**ID-220** A Streamlined and Intuitive AI-Powered Analysis and Design Tool for Resonant Converters

Best Paper Award-Second Prize

🏆	**Million Gerado Geda; Huigyeong Song; Ba Phu Do; Sewan Choi** *Seoul National University of*	**ID-510** Light Load Efficiency Enhancement Strategy for Single-Stage AC-DC by Using Adaptive Switching Frequency
🏆	**Hongyuan Zhao; Xinbo Ruan; Chaochao Shen** *Nanjing University of Aeronautics and Astronautics*	**ID-919** Research on Three-phase LLC Resonant Converter Suitable for Electro-propulsion Power Supply
🏆	**Yaogan Liang; Hiroki Yano; Haoxi Zhou; Katsuhiro Hata; Makoto Takamiya** *The University of Tokyo*	**ID-954** Bond Wire Lift-off Sensor Circuit for Power Devices Integrated in Gate Driver IC
🏆	**Nianzhou Liu; Mingqi Zhang; Jupeng Pang; Pengfei Xie; Changqing Qiu; Kui Wang; Yongdong Li**	**ID-1010** Analysis and Suppression of Voltage Overshoot in Symmetrical Hybrid Five-level Converter
🏆	**Cheng Ai; Yitong Li; Chunpeng Li; Yuexi Yang; Minsung Kim; Jinjun Liu** *Xi'an Jiaotong University*	**ID-156** Grid-Forming Capability Transfer and Active Power Flow Control in a VSC-HVDC System

Best Poster Award

🏆	**Mingyu Yang; Eric Stolt; Zhechi Ye; Juan Rivas-Davila** *Tsinghua University*	**ID-101** Piezoelectric Based Class-E Resonant Inverter for Driving Surface Dielectric Barrier Discharge Plasma
🏆	**Junming Cao; Jiayu Hu; Qianming Xu; Peng Guo;**	**ID-248**

🏆	**Yingzhe Jia; Shuangshuang Kong**	A Switching Frequency Optimization Method for High-Efficiency Single-Phase Inverters
🏆	**Wendi Guo; Zhongchao Sun; Yaqi Li; Siyu Jin; Søren Byg Vilsen; Daniel Ioan Stroe**	**ID-409** Battery health status estimation with partial-charge information using mixed-input LSTM
🏆	**Chaofan Deng; Zhenjiang Pang; Xi Jiang; Song Yuan; Zhaoheng Yan; Zhaowu Zhan; Lei Wen; Xiaowu Gong**	**ID-461** A semi-circular T-shaped anode AlGaN/GaN Schottky barrier diode temperature sensor
🏆	**Dong Xie; Qlingli Deng; Hongjian Lin; Chunxu Lin; Thomas Basler; Xinglai Ge**	**ID-754** Fault Diagnosis for the Cascaded H-Bridge Multilevel Converter Considering Fault Coupling Between Switches and Sensors
🏆	**Yinan Yao; Tianxiang Hu; Lumeng Xu; Yiyi Wang; Sichen Wang; Chushan Li; Zuozhu Liu** *Zhejiang University-University of*	**ID-874** PINN Based Data Driven Magnetics Loss Modeling
🏆	**Jun-Shin Park; Min-Gwan Gwon; Byoung-Gun Park; Ki-Chang Lee; Yeon-Ho Jeong; Ji-**	**ID-1024** Development of Dual Rotor Propulsion System for Contra-Rotating Propeller Drive
🏆	**Sicheng Wang; Yaohua Li; Yue Wu; Yongbin Jiang; Delin Zhao; Yi Tang** *Nanyang Technological University*	**ID-1180** An Improved Genetic Algorithm for Hybrid Magnetic Core Design in Electric Vehicle Wireless Charging Applications