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VDE VERLAG

International Exhibition and Conference for Power Electronics, Intelligent Motion, Renewable Energy and Energy Management

10 – 12 May 2022, Nuremberg

Organizer: Mesago Messe Frankfurt GmbH • *pcim-europe.com*

Keynote

K01 ***»Hydrogen – Key Element to Achieve Net Zero CO2«***
Jürgen Rechberger, Vice President Hydrogen & Fuel Cell, AVL List, A

K02 ***»Power Electronics for a Future Sustainable Society«***
Ichiro Omura, Professor, Kyushu Institute of Technology, J

K03 ***»From State of the Art to Future Development Trends of Power Supply«***
Peter Wallmeier, Senior Director, Delta Energy Systems, D

Special Session: Advanced GaN Power Electronics

001 ***New Technologies for Efficient and Integrated GaN Power Devices***
Luca Nela, Nirmana Perera, Remco van Erp, Taifang Wang, Elison Matioli, EPFL, CH

002 ***GaN Power Electronics: From Device to System***
Alex Huang, University of Texas at Austin, USA

003 ***Practical Challenges in the Design of High Density GaN-Based Power Converters***
Robert Pilawa-Podgurski, University of California, Berkeley, USA

004 ***Next Generation GaN-Based Architectures: From 240W USB-C Adapters to 11kW EV On-Board Chargers with Ultra-High Power Density and Wide Output Voltage Range***
Matthias Kasper, Jon Azurza Anderson, Gerald Deboy, Infineon Technologies, A; Michael Haider, Power Electronic Systems Laboratory, CH

pcim Europe
Best Paper Award

Special Session: Cognitive Power Electronics

005 ***The Interplay between Silicon Capability and System Architecture for Cognitive Power Systems***
Nicolas Lehment, Florian Kälber, Frieder Jespers, NXP Semiconductors, D

006 ***Cognitive Power Electronics 4.0 – An Enabler for Smart Systems***
Martin Schellenberger, Bernd Eckardt, Vincent Lorentz, Fraunhofer Institute IISB, D

Special Session: Advanced Measurement Technology in Power Electronics

DC-DC Converters

Battery Chargers

Packaging Technologies

High Voltage Si Devices

SiC Devices in Transportation

Advanced IGBTs

Converter Control

Behavior and Reliability of SiC Devices

Renewable Energy Systems and Optimization

Advanced Gate Drivers

Passive Components

Measurement Techniques and EMC

Power Module Technology

Sintering Technologies

System Reliability

GaN Switches in Mission Critical Applications

Low Power Converters using WBG Materials

SiC Devices

Reliability

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Young Engineer Award

Converter Design

Motors and Electric Drives

Thermal Management

Design and Optimization

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Best Paper Award

Wireless Power Transfer

SiC Modules, Characteristics and Applications

Power Module Reliability

Thermal Design

Advanced Si Devices

GaN Devices

Packaging I

SiC Devices

Measurement Methods

Advanced Packaging and Reliability

Design Tools

Power Converters: Design and Control Method Optimization

Control Methods

Power Converters

Power Supplies

Passive Components

Motor and Inductors

Intelligent Gate Drives

Charging

Transformers and Passive Components

Renewable Energies

Multilevel Converter

Energy Storage and Grids

E-Mobility and other Transportations

Packaging II