

# Powering Up Your Career:

## Tutorials and Insights for Power Electronics Professionals

The 9th IEEE Southern Power Electronics Conference (SPEC 2024) will be held in Brisbane, Australia from 2nd to 5th December 2024 and invites you to participate in full-day and half-day tutorials on the 2nd of December 2024. These tutorials are designed to provide practical and educational insights, highlighting novel and emerging research that aligns with the conference's key themes.

### Registration Rates

(Does not include paper registration)

Registration Type	Early Bird rate (USD)	Late Registration (USD)
Tutorial Sessions only	\$ 75	\$ 75
One-day registration	\$300	\$350
PELS Member	\$ 1000	\$ 1,150
IEEE Member	\$ 1050	\$ 1,200

- Learn from Experts
- Update with technology
- Hands-On Knowledge
- Networking Opportunities

2nd December 0830 - 1230

Tutorial 1

High Density Power Converter Design & FCML Challenges

Robert Pilawa-Podgurski  
(UC Berkeley)

2nd December 0830 - 1230

Tutorial 2

Fundamentals of Inductive Power Transfer

Duleepa J. Thrimawithana  
(Univ. of Auckland)

2nd December 0830 - 1230

Tutorial 3

Recent Advances in Predictive Control for Energy Conversion Systems

Ralph Kennel (TUM),  
Zhenbin Zhang (Shandong Univ.),  
Ricardo Aguilera (UTS)

2nd December 0830 - 1230

Tutorial 4

Solid-State-Transformer based EV Ultra-fast Charging

Sanjib K. Panda & Jaydeep Saha (NUS)

Late Breaking Research Findings on Solid-State-Transformers

Johann W. Kolar  
(ETH Zurich)

Grid-Integration Technologies for Solar Photovoltaic Systems

Yongheng Yang,  
Yinxiao Zhu, Dehong Xu  
(Zhejiang Univ.)

Methods to Identify & Control Highly Non-Linear Three-Phase Machines

Andreas Liske,  
Alexander Oerder,  
Leonard Geier,  
Stephan Goehner (KIT)

Condition and Health Monitoring of Power Electronic Components

Huai Wang (Aalborg Univ.)

Tutorial 5

2nd December 1330 - 1730

Tutorial 6

2nd December 1330 - 1730

Tutorial 7

2nd December 1330 - 1730

Tutorial 8

2nd December 1330 - 1730

For more information visit: [spec-ieee.org](http://spec-ieee.org)

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MARRIOT HOTEL, BRISBANE, AUSTRALIA