



2024 **2 - 5 December**
Brisbane
Australia

Important Dates

June 30, 2024

Digest submission

August 18, 2024

Notification of acceptance

September 29, 2024

Final paper submission



Call for Papers

Hosted by



The 9th IEEE Southern Power Electronics Conference, SPEC 2024, offers an ideal opportunity for researchers, engineers, academics and students from all over the world to bring the latest technological advances and applications in Power Electronics to the Southern Hemisphere, as well as to network and promote the discipline.

Cutting edge researchers in this field will present keynote speeches during a four day programme that also features tutorials and technical sessions on theory, analysis, design, testing and advances within the field of power electronics.

The conference venue, Queensland University of Technology, is situated in the vibrant city of Brisbane - the capital city of Queensland. Conference delegates can anticipate a beautiful 'clean & green' landscape and a social programme that includes exciting outdoor activities, scrumptious food and fine Australian hospitality. Scholarships are offered for students, and the papers presented at the conference will be included in the IEEEXplore Digital Library.



<https://spec-ieee.org/spec2024/>

SPEC 2024 | 2 – 5 December 2024 | Brisbane, Australia

SPEC 2024

THE 9th IEEE ANNUAL
SOUTHERN POWER
ELECTRONICS CONFERENCE

Topics of interest include but are not limited to:

- Wireless EV charging
- Alternative capacitive and ultrasonic wireless power transfer technologies
- Energy harvesting and wireless power network
- AC-DC converters
- DC-AC converters
- AC-AC converters
- DC-DC converters
- High power converters
- Multilevel converters
- Permanent magnet and reluctance machines: design, control and applications
- AC machines: design, control and applications
- Sensorless motor drives
- Smart, AC, DC and micro/nano grids
- Power electronics in HVDC, HVAC and FACTS
- Power quality issues, harmonic problems and solutions
- High density power converters
- Renewable energy sources: grid integration and stand-alone operation
- Energy storage systems
- Active and passive devices for power electronics
- Fault tolerant and diagnostic techniques and applications
- Power electronics in mechatronics and robotics
- Power electronics in transportation and mobility
- Power electronics in bio-medical applications
- Emerging topics in power electronics

Prospective authors are invited to submit a digest explaining the problem that will be addressed by the paper, author's contribution, how it is different from the closest existing literature, the major results that have been obtained and their significance. Please visit <https://spec-ieee.org/spec2024/>

General chair

Prof. Mahinda Vilathgamuwa

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