

## SAUPEC 2025

**29 -30 January 2025, Hosted by the Tshwane University of Technology, South Africa**

### ANNOUNCEMENT AND CALL FOR PAPERS

It is with great pleasure that we announce the 33rd Southern African Universities Power Engineering Conference (SAUPEC 2025). This flagship Southern Africa regional conference will be hosted by the Department of Electrical Engineering, Tshwane University of Technology in conjunction with the South African Institute of Electrical Engineers (SAIEE) and IEEE South Africa Section. SAUPEC brings together experts from the industry, academics and students in engineering, computer science and information technology to present research papers, network, and expand the fraternity that has been built as part of the SAUPEC legacy.

### TECHNICAL TOPICS

We invite you to submit original research papers in any area of power engineering, including but not limited to:

#### Topics of Interest:

- Power System Analysis, Planning, Operation, and Control
- Industry 4.0 and Sustainable Energy Power System
- Data Science Applications to Power System
- Internet of Things (IoT) in Power System
- Smart Grids, Microgrids, Utility Applications and Virtual Power Plants
- Business Model for Smart Grids and Microgrids
- Power System Dynamics, Stability and Modeling
- Industrial Automation, Mechatronics and Robotics
- Advanced Metering Infrastructure and Control Center Applications
- Electrical Machines and Drives
- Power Electronics and Energy Conversion
- Emerging Technologies in Power Systems
- Transmission, Distribution and Reticulation Networks
- HVDC and High Voltage Engineering
- Protection, Relaying and System Automation
- Lightning Protection of Power and Transportation Systems
- Power System Security and Risk Analysis
- Cyber-physical Energy Systems and Cyber-security
- Power Assets and Risk Management
- Power Quality, Reliability and Condition Monitoring
- Load Modelling and Demand Side Management
- Energy Efficiency, Conservation and Savings
- Renewable Energy Sources, Energy Storage, Devices and Systems
- Electric Vehicles and Transportation Electrification
- Distributed and Embedded Generation
- Electromagnetic Compatibility (EMC) and Electromagnetic Interference (EMI)
- Power Systems Communication
- Energy Markets, Economics, Tariffs, Grid Codes and Policies
- Power Engineering Education

### WEBSITE

The conference website is at <https://www.saiee.org.za>

### PAPER FORMAT

Prospective authors are invited to submit high-quality papers in the above research fields. Papers, with maximum length of six pages, are to be prepared in accordance with the IEEE format available on the conference website. Authors must upload their papers to the Paper Submission website: EasyChair. Papers will go through a “double-blind review”, please note that no author(s) name(s) should appear on the paper submitted for review.

The paper template is available at

<https://www.ieee.org/conferences/publishing/templates.html>

The paper submission website: <https://easychair.org/conferences/?conf=saupec2025>

### REVIEW POLICY

Full papers will be assessed by at least two reviewers. Papers accepted by the review panel will be published in the conference proceedings. Papers not accepted by the review panel may be presented as posters but will not be included in the proceedings. The full review policy is available on the conference website. Papers will be submitted to IEEE to be uploaded on IEEE Xplore after IEEE has approved the conference.

### CONFERENCE PROGRAM

The full conference program will be made available on the conference website.

### ORGANISING COMMITTEE

General Chair : Dr Udochukwu Akuru  
 Program Chairs : Prof Jaco Jordaan and Dr Coneth Richards  
 Technical Chairs : Dr Peet Le Roux, Dr Agha Nnachi, Dr Aloys Akumu,  
 and Prof Olawale Popoola  
 Publication Chairs : Dr Bolanle Abe and Dr Mukwanga Siti  
 Publicity Chairs : Mr Louwrence Ngoma, Mr Tshwarelo Mathebula,  
 Dr Gideon Nnachi and Prof Josiah Munda

Conference secretariat: Mrs. Gerda Geyer ([geverg@saiee.org.za](mailto:geverg@saiee.org.za))

**VENUE:** RIVER MEADOW MANOR, IRENE, PRETORIA

### REGISTRATION

The registration fee includes the following:

- Conference proceedings in electronic format.
- Lunch and break refreshments.
- Gala dinner on 29 January 2025.
- The registration form will be made available on the conference website and available from the secretariat.

### IMPORTANT DATES

**01 June 2024** : 1<sup>st</sup> Call for papers  
**18 October 2024** : Paper submission closes  
**17 November 2024** : Notification of acceptance  
**01 December 2024** : Camera-ready papers due and registration opens  
**29-30 January 2025** : Main conference

