



**SAUPEC/RobMech/PRASA 2020**  
**(IEEE accreditation approved)**  
**29 -31 January 2020, Hosted by University of Cape Town, South Africa**

#### ANNOUNCEMENT AND CALL FOR PAPERS

It is with great pleasure that we announce the SAUPEC/RobMech/PRASA 2020 incorporating the 28<sup>th</sup> Southern African Universities Power Engineering Conference, the 12<sup>th</sup> Robotics and Mechatronics Conference of South Africa and the 30<sup>th</sup> Annual Symposium of the Pattern Recognition Association of South Africa. This flagship Southern Africa regional conference will be hosted by the Department of Electrical Engineering of the University of Cape Town, in conjunction with the South African Institute of Electrical Engineers (SAIEE). SAUPEC, RobMech and PRASA brings together experts from the industry, academics and students in engineering, computer science, pattern recognition, robotics and mechatronics to present research papers, network, and expand the fraternity that has been built as part of the SAUPEC, RobMech, and PRASA legacies. The conference will incorporate the Eskom Tertiary Education Support Programme (TESP) report-back meeting.

#### TECHNICAL TOPICS

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

##### For the SAUPEC track:

- Power Generation
- Transmission, Distribution and Reticulation Networks
- Protection and System Automation
- Quality of Supply, Reliability and Condition Monitoring
- High Voltage Engineering
- Load Modelling and Demand Side Management
- Energy Management and Energy Efficiency
- Electrical Machines and Drives
- Power Electronics
- Renewable Energy
- Distributed and Embedded Generation
- Smart Grids and Microgrids
- Electromagnetic Compatibility (EMC) and Electromagnetic Interference (EMI)
- Energy Economics and Tariffs
- Power Engineering Education

##### For the RobMech Track:

- FMS Artificial Intelligence
- Knowledge Based Systems
- Information Technology Applied to Manufacturing
- Computer-Aided Engineering Education
- Sensors and Applications
- Robots and Automation
- Lean Manufacturing Logistics
- Modelling and Simulation Scheduling
- Rapid Prototyping
- Management of Technology
- Operations Management
- Education and Training using Robotics
- Agile Manufacturing
- Mechatronics
- Distributed Control Systems
- Energy
- Manufacturing Neural Networks
- Mobile robotics
- Mining robotics

##### For the PRASA Track:

- Classifiers and related topics
- Speech processing
- Natural language processing
- Computer vision and image processing
- Bioinformatics
- Signal processing
- Remote sensing
- Artificial intelligence
- Machine learning
- Computational analytics
- End-user applications and systems

#### WEBSITE

The conference website is at [www.prasa.org](http://www.prasa.org), or can be reached via [www.saiee.org.za](http://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.

#### 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 programme will be made available on the conference website.

#### ORGANISING COMMITTEE

Chairs: F. Nicolls (general), P. Barendse (technical), A. Patel (publication), A. Khan (publicity), A. Ferrein (tutorial).

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

#### VENUE

Breakwater Lodge, V&A Waterfront, Cape Town, South Africa.

#### REGISTRATION

The registration fee includes the following:

- Conference kit, including conference proceedings in electronic format.
- Tea/coffee & refreshments at registration sessions, mid-morning and mid-afternoon breaks.
- Buffet lunch, meet & greet function and conference gala Dinner.
- The registration form will be made available on the conference website and available from secretariat.

#### ACCOMMODATION

A list of alternative hotels and guest houses in the vicinity of the conference venue will be made available on the conference website.

#### IMPORTANT DATES

14 October 2019: Paper submission closes

9 December 2019: Notification of acceptance

15 December 2019: Camera-ready papers due and registration opens

29 January 2020: TESP report-back meeting

30-31 January 2020: Main conference

