



## 3<sup>rd</sup> International Conference on Applied Research and Engineering

(ICARAE2023)

17 – 19 November 2023

Organized by the Mechanical Engineering Department, FEDE

Cape Peninsula University of Technology

In partnership with

INSTITUTE OF AERONAUTICAL ENGINEERING

(Autonomous)

Dundigal – 500043, Hyderabad, Telangana, India



## ICARAE2023

### Conference Scope

The whole world is faced with problems which are mainly common. In some parts of the world, some of those problems were already solved and some are still in the process to be solved. This then suggests that there is a need for the platform where these solutions can be shared amongst researchers from different parts of the world. The International Conference on Applied Research and Engineering (ICARAE2023) is aimed at bringing researchers from different parts of the world to share their research findings that are relevant to different kinds of problems and also share new technologies being developed in various fields. The objective of this conference is to bring together the professional engineers, technologists, academics, researchers, and postgraduate students to share their research findings in various fields of Science (or Material Science) and Engineering. This conference will be held in **Lord Charles Hotel** in Cape Town, South Africa during 17-19 November 2023.

### Conference venue

The ICARAE2023 will be conducted in hybrid mode and this means that it will be **face-to-face** with an option to do attend virtually. The venue of the conference is [Lord Charles Hotel](#).

### Publishing Partners

The submission of all papers will be done through Trans Tech Publications system and EDPSciences system. All the accepted papers will be published by **Materials Science Forum, Key Engineering Materials, Solid State Phenomena, and E3S Web of Conferences**



## About Cape Peninsula University of Technology



The Cape Peninsula University of Technology is at the heart of technology education and innovation in Africa. An internationally acclaimed institution, it is the only university of technology in the Western Cape and is the largest university in the region with an enrolment of more than 30 000 students. The university has six faculties offering a wide range of accredited undergraduate and postgraduate courses in the fields of Applied Sciences, Business, Education and Social Sciences, Engineering, Informatics and Design as well as Health and Wellness Sciences.

If you need more information, please visit: [www.cput.ac.za](http://www.cput.ac.za)

## About Cape Town

Cape Town is one of the most beautiful cities in South Africa. There are so many areas that you can explore when visiting Cape Town. This includes:

- \* Table Mountain
- \* Whale watching
- \* Robben Island
- \* Beaches
- \* Cape Point, and so many areas.



## Conference Convener(s):



**Dr Velaphi Msomi**  
**Mechanical and Mechatronic Engineering**  
**Department**  
**Faculty of Engineering and the Built**  
**Environment**  
**Cape Peninsula University of Technology, South**  
**Africa**



**Dr Sipokazi Mabuwa**  
**Mechanical and Mechatronic Engineering**  
**Department**  
**Faculty of Engineering and the Built**  
**Environment**  
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Assistant Dean: Research, Faculty of Engineering and the Built Environment, Cape Peninsula University of Technology, South Africa

### Conference Coordinator(s)

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Managing Guest Editor of Proceedings,  
Mechanical Engineering Department,  
Cape Peninsula University of Technology, South Africa

Dr Sipokazi Mabuwa

Guest Editor of Proceedings,  
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