

# 1ST SPACE SCIENCE & CNS SYMPOSIUM

**Venue: Hotel School, Ritson Campus,  
Durban University of Technology**

**Date: 25th October, 2021**



## CALL FOR CONTRIBUTIONS!

The South African Government is committed to transforming the economy into a Digital Economy in readiness for Industry 4.0. DUT Space Science (SS) program is a capacity-building initiative to train/develop expertise in satellite communications, navigation, and positioning, through graduate studies and research in SS and CNS (Communication, Navigation/e-Navigation, and Surveillance) for national economic development, with applications in various sectors of the economy such as telecommunication, power and energy, mining, marine navigation, and air-traffic. Activities include: Satellite & Space-based Engineering; Satellite E-solutions; Stratospheric Platform Systems for CNS: Airships and Aircraft; Intelligent Transport Systems and Augmentation of GNSS Solutions

## SUB-THEMES:

- Communications, Navigation and Surveillance Systems (CNS)
- Nanosatellite technology
- Innovative Small Satellite Technology and Applications
- Astrophysics and Cosmology
- Global navigation satellite system (GNSS) for positioning, navigation, and timing (PNT)
- Space Segment, Space Applications, and Industrialization of Space
- Unmanned Vehicles, Port Automation, Marine and Mining
- Extragalactic Astronomy, Large-scale structures, and clusters of galaxies
- ICT for Space and Geographic Information System (GIS)
- GNSS time Synchronization and Smart Grid
- GNSS application in Ground Mapping and Transportation
- Precision Agriculture and Machine Control
- Construction, Surveying, Defence and Aerial Photogrammetry
- Global positioning system (GPS) for satellite navigation, wireless internet.
- Relativistic Astrophysics, including the study of compact objects