

POSTER SESSION



DAY ONE: 20 AUGUST 2025

Space and Socio-economic Resilience

1. **Superpixel Median Filter for SAR Satellite Image Despeckling**
Wessel Bonnet – Researcher, Council for Scientific and Industrial Research (CSIR) / PhD Candidate, University of Pretoria
2. **Inspiring Future Earth Observation Practitioners – Afterschool Learning Clubs**
Ramoloi Jacob Maxalaba – Founder & Director, Mphotho Community Development Centre NPO
3. **The Potential of 5G Non-Terrestrial Networks (NTN) on the South African Space Economy Value Chain and Impact on GDP**
Benjamin Hlophe – Managing Director, Kutleng Dynamic Electronics Systems (Pty) Ltd
4. **Mapping Flood Occurrences Using Sentinel-1 SAR & Google Earth Engine**
Onesimo Madikizela – MSc Student, University of Fort Hare



DAY TWO: 21 AUGUST 2025

Space and Earth Intelligence

1. **Landslide Detection & Susceptibility Mapping Using Geospatial Foundation Models**
Zaheed Gaffoor – Research Scientist, IBM Research / PhD Candidate, University of the Western Cape
2. **Modelling Bush Encroachment Dynamics Using Intensity Analysis & Cellular Automata**
Ntuthuko Mncwabe – PhD Candidate, University of KwaZulu-Natal
3. **Modelling Non-Ramsar Wetland Transformation Over Time Using Landsat & Machine Learning**
Nolizwi Diko – MSc Student, University of Fort Hare
4. **Machine Learning-Based Environmental Monitoring Application Using Remote Sensing**
Sakhile Siyethemba Mkhize – Intern, SANSA Space Science / Cape Peninsula University of Technology



DAY 3: 22 AUGUST 2025

Space for Transformative Development

1. **Africa2Moon**
2. Dr Carla Mitchell – Founder, Foundation for Space Development Africa / SARAO
3. **Land Suitability Analysis for Optimizing Taro Production Based on Topo-Edaphic Variables in Smallholder Farming Systems**
Bheka Mlambo – MSc Candidate, University of KwaZulu-Natal
4. **Earth Observation for Sustainable Development: Modelling Soil Erosion Hazard through Change Detection Analysis**
Angela Khumalo – MSc Candidate, University of the Witwatersrand / National Department of Public Works & Infrastructure
5. **Space Apps**
René-Peter Masoen – Aerospace & Defence Professional, NASA International Space Apps / AMD