



CALL FOR
ABSTRACTS

5TH SPACE SCIENCE & CNS SYMPOSIUM

THEME:

Space Science Technologies For Sustainable
Development And Future Intelligent Systems

29 Oct
2026

DURBAN,
SOUTH AFRICA

REGISTER

The Durban University of Technology (DUT) Space Science and CNS Research Centre in collaboration with the Department of Science and Innovation (DSI) invites researchers, academics, industry professionals, government stakeholders, innovators, and postgraduate students to submit original research abstracts for presentation at the 5th Space Science & CNS Symposium under the theme:

“Space Science Technologies for Sustainable Development and Future Intelligent Systems”

This symposium provides a multidisciplinary platform for the exchange of innovative research, emerging technologies, and practical solutions that leverage space science and advanced intelligent systems to address global sustainability challenges. The event seeks to promote collaboration between academia, industry, government, and research institutions while fostering innovation that contributes to socio-economic development, environmental sustainability, and the digital transformation of society.

Space technologies continue to play a critical role in supporting sustainable development goals through Earth observation, communications, navigation, environmental monitoring, disaster management, smart infrastructure, and intelligent decision-making systems. The integration of Artificial Intelligence (AI), Machine Learning (ML), data analytics, autonomous systems, and next-generation communication technologies is creating unprecedented opportunities for advancing space-enabled solutions and shaping future intelligent societies.

Researchers are encouraged to present original work, ongoing research, case studies, technological innovations, and emerging concepts that contribute to the advancement of space science, sustainable development, and intelligent systems. This event is held in collaboration with key national partners, including the South African National Science Agency (SANSA), Air Traffic Navigation Services (ATNS), and the South African Space Technology Foundation. We warmly invite researchers and practitioners to contribute their latest research findings and innovations towards advancing space science, sustainable development, and future intelligent systems.

SUB-THEMES

Abstract submissions may include, but are not limited to, the following areas:

SPACE SCIENCE AND TECHNOLOGY	Satellite Communications and Navigation Systems
	Hybrid RF – Optical Communication Systems
	Small Satellites, CubeSats and Nanosatellite Technologies
	Space Missions, Exploration and Planetary Science
	Astrophysics, Astronomy and Cosmology
	Remote Sensing, Earth Observation and Geospatial Intelligence
	Radio Astronomy and Space Weather
	Space Situational Awareness and Space Surveillance
	Space Systems Engineering and Industrialisation
	Future Space Transportation and Propulsion Systems
SUSTAINABLE DEVELOPMENT APPLICATIONS	Space Technologies for Climate Change Monitoring
	Space Technologies for Food Security
	Environmental Sustainability and Natural Resource Management
	Disaster Risk Management and Early Warning Systems
	Smart Agriculture and Precision Farming
	Water Resource Monitoring and Management
	Sustainable Energy Systems and Smart Grids
	Urban Planning and Smart Cities
	Marine and Coastal Monitoring Applications
	Sustainable Transportation and Mobility Solutions
FUTURE INTELLIGENT SYSTEMS	Artificial Intelligence and Machine Learning for Space Applications
	Intelligent Autonomous Systems, Robotics and Mechatronics
	Digital Twins, Digital Engineering, and Smart Infrastructure
	Edge Computing and Intelligent Networks
	Internet of Things (IoT) and Space-Based Connectivity
	Cognitive Communication Systems
	Big Data Analytics and Decision Support Systems
	Cybersecurity for Space and Intelligent Systems
	Human-Centred AI and Intelligent Technologies
ADVANCED COMMUNICATION, NAVIGATION AND SENSING TECHNOLOGIES	Satellite – Terrestrial Integrated Communications
	Radio Propagation and Channel Modelling
	Global Navigation Satellite Systems (GNSS)
	Precision Positioning, Navigation and Timing (PNT)
	Next-Generation Wireless Communications (5G/6G)
	Integrated Terrestrial and Non-Terrestrial Networks (NTN)
	Sensor Networks and Intelligent Sensing Technologies
	Radar Systems and Remote Monitoring
	Intelligent Transportation and Mobility Networks
EMERGING AND CROSS- DISCIPLINARY RESEARCH	Quantum Technologies for Space Applications
	Digital Transformation and Industry 5.0
	Sustainable Innovation and Entrepreneurship
	Smart Manufacturing and Automation
	Advanced Materials for Space Systems
	Policy, Governance and Ethics in Space Technologies and AI
	Education and Capacity Building in Space Science and Technology
	Emerging Trends in Space Science, Sustainability, and Intelligent Systems

SUBMISSION

Authors are invited to submit original, unpublished research abstracts that are not under consideration elsewhere. Authors are required to adhere to the symposium abstract submission guidelines. All submitted abstracts will undergo a double-blind peer review conducted by at least two members of the Scientific Committee.

Registration is mandatory for all presenting authors.

REGISTER

IMPORTANT DATES

Opening of Abstract Submission : 03 September 2026
Abstract Submission Deadline : 24 September 2026
Abstract Acceptance Notification : 05 October 2026
Submission of PowerPoint/ Poster : 19 October 2026
Registration Deadline : 19 October 2026
Symposium Date : 29 October 2026

INQUIRIES

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