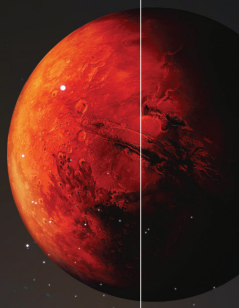
UAEU

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1976-2026 GOLDEN JUBILEE

NSSC 2026

المؤتمر الوطني لعلوم الفضاء

NATIONAL SPACE SCIENCES CONFERENCE



Agenda



DAY 1

08:15-09:00	Registration and Welcome Coffee	E1-Female Auditorium Lobby
09:00-09:20	Opening Ceremony: · Opening Remarks by Conference Chair – Prof. Ilias Fernini · Presentation – Dr. Nabil Albastaki Director - National Space Science & Technology Center	E1- Female Auditorium
09:20-10:00	Plenary Keynote Lecture 1 5 years around Mars: Science Results of the Hope Probe - Dr. Noora Rashed Al Saeed (UAE Space Agency)	E1- Female Auditorium
10:00-10:20	COFFEE BREAK	E1- Female Auditorium
	Morning Parallel Session	
	Track A **Astronomy & Astrophysics I** Location: E1 Female Side - 1055	**Track B** **Space Sciences & Technology I** Location: E1 Female Side - Auditorum
10:20-10:40	Multiple Population in Globular Clusters: A Challenge for Stellar Astrophysics - Emanuele Dondoglio (AUS)	Neutral Composition Contrasts Associated with Martian Crustal Magnetic Fields - Sergey Nikiforov (NYUAD)
10:45-11:05	Fundamental Properties of Nova V462 Lupi (AT2025nlr) - Mohammad Fadel Talafha (UoS / SSAH)	Case Study of Selected Dust Storms in the Martian Year 38 by the EXI Camera of the Emirates Mars Mission (EMM) - Claus Gebhardt (UAEU)
11:10-11:30	A Multi-Wavelength View of Star Formation in the Magellanic Clouds - Naslim Neelamkodan (UAEU)	Diurnal and inter-annual variations of dust storms based on EMM-EXI observational database - Bijay Kumar Guha (NSSTC – UAEU)
11:35-11:55	Impact of Massive Star Feedback in the Magellanic Clouds - Susmita Barman (UAEU)	Investigating the Martian Thermosphere–Ionosphere–Exosphere System: Observations Modelling and Atmospheric Coupling - Neha Gupta (NSSTC – UAEU)
12:00-12:20		Diurnal variation of the surface temperature of mars with the emirates mars mission: a comparison with mars climate database - Pallavi Krishna (NYUAD)
12:20-13:30	Lunch & Prayers + Posters	G025C
13:15-13:55	Panel Discussion: Beyond the Orbit: Unlocking the Value of Satellite Data	E1- Female Auditorium
	Afternoon Parallel Sessions	
	Track A **Astronomy & Astrophysics II** Location: E1 Female Side - 1055	**Track B** **Space Sciences & Technology II** Location: E1 Female Side - Auditorum

14:00-14:20	Multi-Scale Multi-wavelength Investigations of AGN Outflows - Aisha Al Yazeedi (NYUAD)	Science Overview of the Emirates Mission to the Asteroid Belt – Hoor Almazmi
14:25-14:45	Structural and dynamical properties of tidal dwarf galaxies in the tails and bridge of the Guitar galaxy Arp 105 - Jyoti Prakash (IUCAA)	Arab Satellite 813: From Regional Vision to Operational Capability - Sultan Al Zeidi (UAESA)
14:50-15:10	Super Cryogenic Dark Matter Experiment - Muad Ghaith (ZU)	Emirates Lunar Mission Hessa Almatroushi – (MBRSC)
15:15-15:35	New insights on the chemical evolution of nearby galaxies revealed by their stellar clusters – Randa Asad (AUS)	Luna Payload: From Design to In-Orbit Operations Amel Alhammadi (UoS / SSAH)
15:40-16:00	Topological Structure of dark matter Geometry-dependent collapse scalar radiation and gravitational-wave sourcing by closed axion-like-particle domain walls - Fedor V Kusmartsev (KU)	Design and Simulation of a Robotic Payload Deployment System for Lunar Rovers - Nafisa Zian Imam Shafi (UoS / SSAH)
16:00-16:30	COFFEE BREAK + Posters	E1- Female Auditorium Lobby
	Evening Parallel Sessions	
	Track A **Astronomy & Astrophysics III** Location: E1 Female Side - 1055	**Track B** **Space Sciences & Technology III** Location: E1 Female Side - Auditorum
16:30-16:50	Gravitational Waves from Intermediate-Mass Black Hole Binaries - Fazeel Mahmood Khan (NYUAD)	Automated Detection and Classification of Solar Radio Bursts Using Deep Learning - Aisha Alshamsi (UoS / SSAH)
16:55-17:15	TeV flaring blazars as candidate sources for high-energy Neutrinos - Mohanraj Senniappan (KU)	Data-Constrained Modelling of Solar Surface Magnetic Field Using Physics-Informed Neural Networks - Mohammad Fadel Talafha (UoS / SSAH)
17:20-17:40	After the Shock: Wind-Bubble Dynamics and Cosmic-Ray Evolution in the Fermi Bubbles - Haowen Si (KU)	The Impact of Solar Activity on Ionospheric Conditions During Solar Cycle 25 - Mohammad Rihan (UoS / SSAH)
17:45-18:05		Satellite-Based Monitoring of Surface Water Quality in the UAE Using NSSTC's S813 Hyperspectral and Sentinel-2 Data - Roua Aldalqamouni (UAEU)
18:10-18:30		Sharjah-Sat-2: Connecting Space Technology with Government Applications in Sharjah - Abdulrahman Sulaiman (UoS / SSAH)
19:30 – 21:00	NSSC Gala Dinner (Al Ain Rotana Hotel)	

DAY 2

08:15-09:00	Registration and Welcome Coffee	E1-Female Auditorium Lobby
09:00-09:45	Plenary Keynote Lecture 2 Gamma-Ray Bursts: Does the Afterglow Correlate with the Prompt Phase? - Prof. Nidhal Guessoum (American University of Sharjah)	E1-Female Auditorium
10:00-10:20	COFFEE BREAK	E1- Female Auditorium
	Morning Parallel Session	
10:20-11:45	**Track A** **Astronomy & Astrophysics IV** Location: E1 Female Side - 1053	**Track B** **Space Sciences & Technology IV** Location: E1 Female Side - Auditorum
10:20-10:45	The whole story of planets in star clusters: what is known and what is to be expected with the next generation telescopes - Francesco Maria Flammini Dotti (NYUAD)	A Low-Cost 6-U CubeSat System for Space Weather applications - Ilias Fernini (UAEU)
10:50-11:15	Molecular Data for Planetary and Exoplanetary Atmosphere Modelling - Nayla El-Kork (KU)	Electrostatic Solitary Waves in Planetary Magnetospheres: Basic Modeling & Overview of Recent Advancements - Ionnis Kourakis (KU)
11:20-11:45	End-to-End Processing of JWST NIRISS/SOSS Observations of WASP-96 b with the EUREKA Pipeline: A Transit Analysis - Fatima Alkhateri (UoS/SSAH)	Nonlinear Electrostatic Wavepackets in Dusty Plasmas in Saturn's Magnetosphere - Aysha Nihidha Pulakkal (KU)
11:50-12:10		Modulated Langmuir Wavepackets in Planetary Magnetospheric Plasmas: The role of multi-electron inertia - Ruba Murhaf (KU)
12:15-12:35		Identifying Potentially Hazardous Asteroids with GAIA DR3: A Comparison of Orbital Geometry and Machine Learning - Munya Al-Khalifa (UoS / SSAH)
12:20-13:30	Lunch & Prayers + Posters	G025C

	Afternoon Parallel Sessions	
13:30-15:55	**Track A** **Astronomy & Astrophysics V** Location: E1 Female Side - 1053	**Track B** **Space Sciences & Technology V** Location: E1 Female Side - Auditorum
13:30-13:50	Discrepancy between boron-to-carbon ratio and the spectra of primary cosmic rays - Ankit H. Yadav (KU)	Model-Agnostic Fusion of OpenStreetMap and Deep-Learning Road Segmentation - Bushra Alzadjali (Space42)
13:55-14:15	Large-scale Anisotropy of Ultra-high-energy cosmic rays from the Council of Giants -	Open-world Change Captioning for Remote Sensing Imagery - Akshay Dudhane (Space42)
14:20-14:40		Large Vision Models for Space Imaging: Advances and Applications - Omar Elharrouss (UAEU)
14:45-15:05		AI-Powered Ecosystems for NASA Space Mission Design & Astrodynamics Analytics – Aquib Moin (UAEU)
15:10-15:30		AI-Enabled Satellite Remote Sensing for Environmental Monitoring in the UAE - Tholkappiyan Ramachandran (UAEU)
15:35-15:55		Mapping Minerals in the UAE Hajar Mountains from Space: Adapting Deep Learning to Hyperspectral Imagery - Mohammad Musharraf Azmi (UAEU)
16:00-17:15	COFFEE BREAK + Posters	E1- Female Auditorium Lobby
	Closing Ceremony	
17:15-18:00	Closing Remarks - Prof. Ilias Fernini Group Photograph	

للتسـجيل، يرجـى زيـــارة الموقــع الإلكتروني
For Registration, please visit the website
conferences.uaeu.ac.ae/nssc2026