

SPACE STAR'24

3rd Scientific Conference on SPACE
Science, Technology, Applications & Regulation
INAT-Tunis, November 13-15, 2024



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The third edition of SPACE STAR Conference will be organized at **INAT**, and it will focus on :
"The Role of Space Tools in Addressing the Challenges of Emerging Countries in Bridging SDG Gaps."
SPACESTAR'24 will provide a platform for interdisciplinary discussions, knowledge exchange, and collaboration, aiming to advance space usage in emerging countries and beyond.

The conference covers the following space related topics:

- Space Science and Exploration
- Space Technology and Engineering
- Space Applications and Utilization
- Space Policy, Law, and Governance

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GREEN-TEAM



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African Association for Geospatial Development



University Space Engineering Consortium TUNISIA
UNISEC



IEEE
Tunisia Section



IEEE
NANO
Tunisia Chapter



International
Telecommunication
Union



Arab Space Forum



Mapping of Carthage city. it was world's largest and prosperous cities with extensive fertile lands and major marine trade ways.

Wednesday, November 13, 2024
Space Applications and Earth Observation

8:00 to 8:30	Registration, INAT Conference Hall														
8:30 to 9:20	Opening Ceremony Official opening: Minister of Agriculture, Water Resources and Fisheries, Tunisia / President of IRESA / INAT General Director														
9:20 -9:50	Conference Session (1): Water resources under the eye of satellites Dr Mehrez ZRIBI, OMP Director, Observatoire de Midi-Pyrénées, France														
9:50 11:10	Oral Communication (1): Remote Sensing and Data Processing Chair : Prof Zohra LILI CHABAANE <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 15%;">EO-001</td> <td>Z. KASSOUK, F. MAGHREBI, V. SIMONEAUX, A. C. BELLAKANJI, V. LEDANTEC, Z. LILI CHABAANE - INAT-Green Team-Tunisia</td> <td>Application of high spatial and temporal resolution remote sensing data to map cropping practices in Merguellil plain (Sentinel-2/VENµS synergy)</td> </tr> <tr> <td>EO-002</td> <td>K NEILI, F TRABELSI, S JIWA, A AGHA KOUCHAK ESIM-Tunisia</td> <td>A Hybrid Approach to Groundwater Level Forecasting: Integrating Earth Observation and Machine Learning in the Medjerda Basin (Tunisia)</td> </tr> <tr> <td>EO-003</td> <td>M BARBOUCHI, E GHARBIA, W TOUKEBRI, H BOUSNINA, M ANNABI, H BAHRI, INAT-Tunisia</td> <td>Mapping and predicting land use change using remote sensing data: case study of Zaghouan</td> </tr> <tr> <td>EO-004</td> <td>S BEN MAHMOUD, C OLFA,C MASMOUDI, A BOUCHKARA, ENIG-Tunisia</td> <td>Classification of Time Series Sentinel-1 Images Using Convolutional Neural Networks</td> </tr> </table>			EO-001	Z. KASSOUK, F. MAGHREBI, V. SIMONEAUX, A. C. BELLAKANJI, V. LEDANTEC, Z. LILI CHABAANE - INAT-Green Team-Tunisia	Application of high spatial and temporal resolution remote sensing data to map cropping practices in Merguellil plain (Sentinel-2/VENµS synergy)	EO-002	K NEILI, F TRABELSI, S JIWA, A AGHA KOUCHAK ESIM-Tunisia	A Hybrid Approach to Groundwater Level Forecasting: Integrating Earth Observation and Machine Learning in the Medjerda Basin (Tunisia)	EO-003	M BARBOUCHI, E GHARBIA, W TOUKEBRI, H BOUSNINA, M ANNABI, H BAHRI, INAT-Tunisia	Mapping and predicting land use change using remote sensing data: case study of Zaghouan	EO-004	S BEN MAHMOUD, C OLFA,C MASMOUDI, A BOUCHKARA, ENIG-Tunisia	Classification of Time Series Sentinel-1 Images Using Convolutional Neural Networks
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11:30 to 12:50	Oral Communication (2): Earth Observation and Water Management Chair: Prof Mehdi BEN MIMOUN <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 15%;">EO-005</td> <td>A CHAHBI, M DRIDI, Z KASSOUK, Z LILI CHABAANE, INAT-Green Team- Tunisia</td> <td>Identification of flood-vulnerable areas in the Nabeul region by optical and radar remote sensing</td> </tr> <tr> <td>EO-006</td> <td>S. PILIA, G. FONTANELLI, F. BARONI, S. PALOSCIA, S. PETTINATO, G. RAMAT, E. SANTI, L. SANTURRI IFAC – CNR, Italy</td> <td>Synergy between optical and microwave satellite data to identify agricultural vegetation parameters and soil humidity in arid zones in Tuscany (Italy)</td> </tr> <tr> <td>EO-007</td> <td>M KHLIF, A CHAHBI BELLAKANJI, M J ESCORIHUELA, G S ALCALDE, Z LILI CHABAANE, INAT Green Team- Italy</td> <td>Early Estimation and Spatial Modeling of Cereal Yields and Water Productivity in Semi-Arid Region Using Machine Learning and Satellite-Based Drought Indices</td> </tr> <tr> <td>EO-008</td> <td>Y GACHAA, T ABDELLATIF, STD-MRC-Tunisia</td> <td>Water Loss Detection and Mapping System Using Deep Learning and Big Data</td> </tr> </table>			EO-005	A CHAHBI, M DRIDI, Z KASSOUK, Z LILI CHABAANE, INAT-Green Team- Tunisia	Identification of flood-vulnerable areas in the Nabeul region by optical and radar remote sensing	EO-006	S. PILIA, G. FONTANELLI, F. BARONI, S. PALOSCIA, S. PETTINATO, G. RAMAT, E. SANTI, L. SANTURRI IFAC – CNR, Italy	Synergy between optical and microwave satellite data to identify agricultural vegetation parameters and soil humidity in arid zones in Tuscany (Italy)	EO-007	M KHLIF, A CHAHBI BELLAKANJI, M J ESCORIHUELA, G S ALCALDE, Z LILI CHABAANE, INAT Green Team- Italy	Early Estimation and Spatial Modeling of Cereal Yields and Water Productivity in Semi-Arid Region Using Machine Learning and Satellite-Based Drought Indices	EO-008	Y GACHAA, T ABDELLATIF, STD-MRC-Tunisia	Water Loss Detection and Mapping System Using Deep Learning and Big Data
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12:50 to 14:15	Lunch														
14:15 to 14:35	Conference Session (2) : Cartographie des emblavures céréalières par télédétection en Tunisie centrale et mesures d'adaptation dans la gestion de l'eau en agriculture Prof Zohra Lili Chabaane, President IRESA														
14:35 to 15:00	Conference Session (3) : EO Based on the Thermal Infrared Anisotropy Measurements : The TRISHNA MISSION Jean Louis ROUJEAN, Directeur de Recherche CNRS, Toulouse, France														
15:00 to 16:20	Oral Communication (3): Remote Sensing, Mapping and Management Chair: Prof Olfa CHARFI MARRAKCHI <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 15%;">EO-009</td> <td>G GRAJA, T ABDELLATIF STD-MRC-Tunisia</td> <td>UAV-Satellite data integration for forestry</td> </tr> <tr> <td>EO-010</td> <td>W TALHAOUI, CNCT Tunisia</td> <td>Remote sensing for geological mapping and mineral resources inventory</td> </tr> <tr> <td>EO-011</td> <td>K MANSOUR, H ABDERRAHMEN CNCT Tunisia</td> <td>Big geospatial data for smart and sustainable cities</td> </tr> <tr> <td>EO-012</td> <td>A EZZINE, CNCT Tunisia</td> <td>Modélisation et cartographie du risque de l'érosion hydrique par l'application des techniques géospatiales</td> </tr> </table>			EO-009	G GRAJA, T ABDELLATIF STD-MRC-Tunisia	UAV-Satellite data integration for forestry	EO-010	W TALHAOUI, CNCT Tunisia	Remote sensing for geological mapping and mineral resources inventory	EO-011	K MANSOUR, H ABDERRAHMEN CNCT Tunisia	Big geospatial data for smart and sustainable cities	EO-012	A EZZINE, CNCT Tunisia	Modélisation et cartographie du risque de l'érosion hydrique par l'application des techniques géospatiales
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16:50 to 17:50	Oral Communication (4): Remote Sensing Infrastructure and Applications Chair: Dr Zeineb KASSOUK <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 15%;">EO-013</td> <td>H TRABELSI, CNCT Tunisia</td> <td>Estimation des propriétés des sols par l'utilisation de la télédétection et les données spectroscopiques</td> </tr> <tr> <td>EO-014</td> <td>H ISMAIL CNCT-Tunisia</td> <td>Infrastructure nationale d'information géographique (inig)</td> </tr> <tr> <td>EO-015</td> <td>T SAHLI CHAHED CNCT Tunisia</td> <td>Rôle de la recherche et la valorisation des résultats dans le développement des techniques de télédétection dans le domaine de la gestion, protection et aménagement du territoire</td> </tr> <tr> <td>EO-016</td> <td>M Ali BRIKI, K BEN HOUIDI, APAL Tunisia</td> <td>Satellite Observation of Coastal Changes in Tunisia: Addressing Sustainable Development Challenges and Marine Biodiversity Coastal</td> </tr> </table>			EO-013	H TRABELSI, CNCT Tunisia	Estimation des propriétés des sols par l'utilisation de la télédétection et les données spectroscopiques	EO-014	H ISMAIL CNCT-Tunisia	Infrastructure nationale d'information géographique (inig)	EO-015	T SAHLI CHAHED CNCT Tunisia	Rôle de la recherche et la valorisation des résultats dans le développement des techniques de télédétection dans le domaine de la gestion, protection et aménagement du territoire	EO-016	M Ali BRIKI, K BEN HOUIDI, APAL Tunisia	Satellite Observation of Coastal Changes in Tunisia: Addressing Sustainable Development Challenges and Marine Biodiversity Coastal
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Thursday, November 14, 2024 Space Science and Technology												
09:00 to 9:30	Conference Sessions (4): Leveraging the Opportunities of Satellite Navigation for the African Continental Agenda- A Priority sectors based approach, Dr Aicha ALOU, SatNav-Africa Joint Programme Office, Senegal											
9:30 to 10:30	Oral Communication (5): GNSS and Space Signal Instrumentation Chair: Prof. Mounir MANSOUR <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 15%;">ST-001</td><td>Alex WANDA, Herbert NGAYA, SATNAV-JPO, Senegal</td><td>Bridging gaps in the provision of high accuracy positioning services on the African Continent with Galileo High Accuracy Service (HAS)</td></tr> <tr> <td>ST-002</td><td>Noha FATHY, NSST Egypt</td><td>Satellite electricity transmission from space to earth</td></tr> <tr> <td>ST-003</td><td>Faten OUAJA, RZIGA, Kamel BESBES FSM-CRMN - Tunisia</td><td>Space quantum gravimetry</td></tr> </table>			ST-001	Alex WANDA, Herbert NGAYA, SATNAV-JPO, Senegal	Bridging gaps in the provision of high accuracy positioning services on the African Continent with Galileo High Accuracy Service (HAS)	ST-002	Noha FATHY, NSST Egypt	Satellite electricity transmission from space to earth	ST-003	Faten OUAJA, RZIGA, Kamel BESBES FSM-CRMN - Tunisia	Space quantum gravimetry
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10:30 to 10:50	Coffee Break											
10:50 -11:50	Oral Communication (6): Space Technology Nanosatellite Design and Testing Chair : Prof Kamel BESBES <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 15%;">ST-004</td><td>S LAHOUAR, M MANSOUR, K. BESBES, Uei-CRMN Tunisia</td><td>Low-cost thermal vacuum testing setup for CubeSats</td></tr> <tr> <td>ST-005</td><td>M MANSOUR, S LAHOUAR, K BESBES, Uei-CRMN Tunisia</td><td>Attitude Determination of a CubeSat Based on Multi-sensor Data Fusion</td></tr> <tr> <td>ST-006</td><td>N ZELFANI, S LAHOUAR, K BESBES, Uei-CRMN Tunisia</td><td>Patch antenna design for nanosatellite communication</td></tr> </table>			ST-004	S LAHOUAR, M MANSOUR, K. BESBES, Uei-CRMN Tunisia	Low-cost thermal vacuum testing setup for CubeSats	ST-005	M MANSOUR, S LAHOUAR, K BESBES, Uei-CRMN Tunisia	Attitude Determination of a CubeSat Based on Multi-sensor Data Fusion	ST-006	N ZELFANI, S LAHOUAR, K BESBES, Uei-CRMN Tunisia	Patch antenna design for nanosatellite communication
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12:00 to 12:40	Conference Session (5) New challenges on space exploration: Lunar Environment Monitoring Dr Mehdi BENNA , NASA & UNIVERSITY OF MARYLAND BALTIMORE, NASA, USA											
12:40 to 14:00	Lunch											
14:00 -14:30	Conference Session (6): State of the art on transforming Space communication Dr Walid MATHLOUTHI, Head of the Future Networks and Spectrum Management division, ITU, Switzerland											
14:40 to 15:40	Oral Communication (7): Space Engineering development Chair : Prof. Ahmed SIALA <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 15%;">ST-007</td><td>BENDJEDID R, SANOUSSI, T TCHANGOLE, O BENJELLOUN, EU Fez, Morocco</td><td>The Atom: A Solution For The Fight Against Climate Change</td></tr> <tr> <td>ST-008</td><td>S SNOUSSI, I TITOUHI, A HAMMAMI, I ALBOUCHI, CST Tunisia</td><td>TUN'Sat1, Educational and space promotion program</td></tr> <tr> <td>ST-009</td><td>S SNOUSSI, I TITOUHI, A HAMMAMI, I ALBOUCHI, CST-Tunisia</td><td>CST activities in the field of Space and Astronomy</td></tr> </table>			ST-007	BENDJEDID R, SANOUSSI, T TCHANGOLE, O BENJELLOUN, EU Fez, Morocco	The Atom: A Solution For The Fight Against Climate Change	ST-008	S SNOUSSI, I TITOUHI, A HAMMAMI, I ALBOUCHI, CST Tunisia	TUN'Sat1, Educational and space promotion program	ST-009	S SNOUSSI, I TITOUHI, A HAMMAMI, I ALBOUCHI, CST-Tunisia	CST activities in the field of Space and Astronomy
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17:30 to 18:00	Conference Session (7) : HERA asteroid mission for planetary defence program, Rania TOUKABRI, Satellite and launcher systems architect, ESA											

Friday, November 15, 2024 Space Regulations and Policies, Conference Co- Chair: Prof. Refaat CHAABOUNI	
ARTIFICIAL INTELLIGENCE AND SPACE	
09:00 to 9:20	Key Note 1 : AI to the Rescue: Enhancing Disaster Warnings with Tech Tools Dr Bilel JAMOUSSI, and Dr Monique Kuglitsch, ITU Switzerland
09:20 to 9:40	Key Note 2: Applications of Deep Learning in Smart Agriculture Dr Karem CHOKMANI, INRS University (Quebec City, Canada)
9:40 to 10:30	Panel 1: AI Factories program and Space applications <ul style="list-style-type: none"> • Dr Michel BOSCO, MAMIC, Belgium, Chair • Prof Ferdaous CHAABANE Sup Com, Tunisia • Prof Imed Riadh FARAH, NESM Director, Tunisia • Col. Haythem ISMAIL CNCT, Tunisia
10:30 – 11:00	Coffee Break
SPACE POLICY & CHALLENGES	
11:00 to 11:30	Key Note 3 : Space and Cooperation: A perfect match towards Sustainability Dr; Francesco LONGO, Head of the Earth Observation Office, Italian Space Agency
11:30 - 12: 30	Panel 2: A new frontier: Space policies, standards, markets and cooperation, organized by The AdWisers <ul style="list-style-type: none"> • Tomas MATRAIA – CEO of The AdWisers Strategic Advisory Group, Chair • Dr.Mondher KHANFIR, Tunisia African Business Council - Tunisia • Dr. Aicha ALOU, SATNAV Africa, Senegal • Catherine VIGNERON, Cen-Cenelec, Belgium • Stefano BELLA TERRA, European Union Commission • Dr Mehdi BENNA, PLANETARY SCIENTIST, NASA, USA
CNEEA, Celebrating 40 Years	
12:30 to 12:45	Key note 4: CNEEA and Space Activities in Tunisia, What'next Malek KOCHLEF, DG DCI MESRS
12:45 to 13:00	Closing Ceremony: Minister of Higher Education and Scientific Research CNEEA 40 anniversary ceremony
13:30	Closing Lunch

Scientific Committee Chairs

- Prof Kamel BESBES, CRMN Sousse Technopole
- Prof Zohra LILI CHABAANE, INAT-IRESA
- Prof Refaat CHAABOUNI, ENIT

Program and Organization Committee

- Dr. Samer LAHOUAR, CRMN Sousse Technopole
- Dr. Zeineb KSSOUK, INAT
- Prof. Mohamed Adel KALLALA, AN Menzel Bourguiba, ATIS
- Prof. Mourir MANSOUR, MA Foundouk Jedid
- Ing. Thouraya SAHLI CHAHED, CNCT-Tunis
- Ing. Wafa TALHAOUI, CNCT-Tunis
- Prof. Nesrine CHEHATA, AGEOS
- IEEE Student GRSS-INAT

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- Jawaher BOUKTHIR
- Aziz MANSOUR