



كلية العلوم
السملالية - مراكش
FACULTÉ DES SCIENCES
SEMLALIA - MARRAKECH



المدرسة الوطنية للعلوم
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ÉCOLE MAROCAINE DES
SCIENCES DE L'INGÉNIEUR
Membre de
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Ecole Reconnue par l'Etat

The 2nd International Conference on Global Aeronautical Engineering and Satellite Technology (GAST'26)

Marrakesh, APRIL 22-24, 2026

PROGRAM



Conference location: Semlalia Faculty of Sciences of Marrakech (FSSM),
Prince Moulay Abdellah Avenue, Marrakech, Morocco

To join us



IEEE Aerospace and
Electronic Systems Society



Antennas and Propagation Society



IEEE MICROWAVE THEORY &
TECHNOLOGY SOCIETY



Laboratory of Compute
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مختبر المعلومات والأنظمة الذكية



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MAIN PROGRAM OF GAST'26 CONFERENCE

Wednesday, April 22, 2026

8h00 – 9h15	Welcome and Registration of participants		
9h15 – 9h45	Opening Ceremony of GAST'26 Conference, Official Speeches		
09h45 – 10h30	Keynote speaker 1 : Prof. Adriano Camps, Polytechnic University of Catalonia Barcelona, Spain Title : 2007–2025 — CubeSat Missions Developed and Contributed to by UPC's NanoSatLab: From 3Cat-2 to 6GStarLab, and Beyond Chairs : Prof. A. ZEROUAL and Prof. A. OULAD SAID		
10h30 – 11h00	Coffee break		
11h00 – 12h30	Session 1: Invited Session (Room 1) Advanced Satellite & CubeSat Systems Chairs : Pr Z. Guennoun, Pr A. Addaim, Pr A. Oulad Said, Pr Amina Daghour		
12h30- 14h00	Lunch break		
14h00 – 14h45	Keynote speaker 2 : Prof ZOUHAIR GUENNOUN Director of UCRST/UMVR Mohammed V University Rabat, Morocco Title : The University Center for Research in Space Technologies - A Success Story Chairs : Prof. A. OULAD SAID and Prof. S. IBNYAICH		
14h45 - 15h30	Keynote speaker 3 : Prof. Warren du Plessis, University of Pretoria, South Africa Title : EW in Academia – Logical Fallacy or Self-evident? Chairs : Prof. S. IBNYAICH and Prof. H.BELAHRACH		
15h30- 17h00	Session 2: CubeSat & Nanosatellite Systems 1 (Room 1)	Session 3: AI in Education, VR & EdTech 1 (Room 2)	Session 4: Antenna Design & RF for Space/Mobile Networks 1 (Room 3)
17h00 – 17h30	Coffee break		
17h30 - 19h00	Session 5: Smart Grids, Power & Energy Systems (Room 1)	Session 6: Online Session 1 (Room 2)	Session 7: Cybersecurity, Privacy & DevSecOps (Room 3)



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Thursday, April 23, 2026

9h00 – 09h45	Keynote speaker 4 (online): Prof. Marina Ruggieri, University of Roma, Italy Title: System Architectures, AI and Cybersecurity in a Sustainable Space Chairs : Prof. S. CHABAA and Prof. A. OULAD SAID		
09h45 – 10h30	Keynote speaker 5 : Dr Abbes KAILIL, XAR AEROSPACE and XAR AEROSYSTEMS, Morocco Title : Autonomous industrial drone systems with embedded AI Chairs : Prof. A. REHA and Prof. A. EL KARI		
10h30 – 11h00	Coffee break		
11h00 - 12h30	Session 8 : IA and Computing 1 (Room 1)	Session 9: AI and Computing 2 (Room 2)	Session 10: Antenna Design & RF for Space/Mobile Networks 2 (Room 3)
12h30 - 14h00	Lunch break		
14h00 – 15h30	Session 11: Telecommunications and Electrical Engineering (Room 1)	Session 12 : Online Session 2 (Room 2)	Session 13: Antenna Design & RF for Space/Mobile Networks 3 (Room 3)
15h30 – 16h00	Coffee break		
16h00 – 17h00	Session 14: AI in Education, VR & EdTech 2 (Room 1)	Session 15: Finance, ERP & E- Government (Room 2)	
20h00 - 22h00	GALA DINNER (with additional fees)		

Friday, April 24, 2026

9h00 – 10h30	Session 16 : Deep Learning for Smart Infrastructure and Edge Intelligence (Room 1)	Session 17: AI and Computing 3 (Room 2)	
10h30 – 11h00	Coffee break		
11h00 - 12h00	Round Table and Closing Ceremony		

DETAILED PROGRAM GAST-2026

Global Aeronautical Engineering and Satellite Technology (GAST'26)

Session 1: Invited Session — Advanced Satellite & CubeSat Systems

Chairs : Pr Ahmed Oulad Said, Pr Zouhair Guennoun, Pr Adnane Addaim, Pr Amina Daghour

Wednesday, April 22, 2026 11h00 – 12h30 (Room 1)

ID	Title	Authors
0095	Context-Augmented NLP for Predicting Nanosatellite EPS Output Activation from Telecommand Scripts	Khalil Jabbahi , Slimane Bah and Zouhair Guennoun
2014	Overhang-Constrained Bezier Strut Optimization for Body-Centered Cubic Lattice Structures in Additive Manufacturing	Ali El Mechhour , Othmane Nouredine, Younes Moubachir and Zouhair Guennoun
3637	Design and Experimental Validation of an Embedded Firmware Architecture for an SDR CubeSat Payload	Leila Nahiri , Adnane Addaim and Zouhair Guennoun
6128	Data Driven Framework for Anomaly Detection and Inter Subsystem Correlation in CubeSat Telemetry	Mustapha Ahricha , Slimane Bah and Zouhair Guennoun
9146	Review of Mechanical Design and Dynamic Qualification Practices for 3U CubeSats	Hiba Bootia El Oumami , Othmane Nouredine, Younes Moubachir, Zouhair Guennoun, Jamila Hassar and Zakaria Moudden

Session 2: CubeSat & Nanosatellite Systems 1

Chairs : Pr Zouhair Guennoun, Pr Adnane Addaim, Pr Mohamed Alae Chanoui, Pr Othmane Nouredine (Room1)

Wednesday, April 22, 2026 15h30 – 17h00 (Room 1)

ID	Title	Authors
0075	Decentralized and Cost-Effective Thermal Vacuum Testing for CubeSat and Small Satellite Subsystems: The ALQUBE Solution	James Benouda , Yassine El Qamch, Naoufal Souitat and Nabil Souhair
6475	Comparative Study of Antennas for 1U CubeSats in the S-Band: Favoring the Microstrip Patch Antenna	Essoumati Sara , Ouladsaid Ahmed and Gharnati Fatima
2582	AIRS: Autonomous On-Orbit Intrusion Response for CubeSats Using Deep Reinforcement Learning	Taha Ait Baissi and Abdelali El Gourari
3293	Weather Condition Classification for Safe Drone Flight Using Convolutional Neural Networks	Marwa Bouilly, Majdouline Sabri and Fatimazahra Jakjoud and Aya Eddaniaoui

Session 3: AI in Education, VR & EdTech 1

Chairs : Pr Samira CHABAA, Pr Warren du Plessis

Wednesday, April 22, 2026 15h30 – 17h00 (Room 2)

ID	Title	Authors
3558	Optimizing the Integration of Large Language Models in 3D Educational Avatars: A Comparative Analysis of Latency Reduction, Speech Synthesis, and System Orchestration Strategies	Dounya Aboussakine , Aicha Tahiri and Abdelali El Gourari
5925	Design and Evaluation of a Modern License-Managed Learning Platform: A Full-Stack Web Development Case Study	Abdelali El Gourari, Yassine Ed-Daadoua, Oumaima El Kahlaoui , Mustapha Ezzini, Mustapha Raoufi and Mohammed Skouri
7820	Multimodal RAG and Fine-Tuned LLMs for Enhanced Understanding of Electrical Concepts	Abir Zennir , Abdelali El Gourari, Mustapha Raoufi and Mohammed Skouri
9274	Architecture of a Conversational Virtual Teacher: Comparative Analysis of AI Components for Immersive Education	Aicha Tahiri , Dounya Aboussakine and Abdelali El Gourari

Session 4: Antenna Design & RF for Space/Mobile Networks 1

Chairs : Pr Samira Ibnyaich, Pr Redouane Er-rebyiy,

Wednesday, April 22, 2026 15h30 – 17h00 (Room 3)

ID	Title	Authors
0118	Bio-Inspired Optimization of a Dual-Band Fractal Antenna for 5G Sub-6 GHz and Satellite Communications	Ibtissam Bahlaouane , Asma Oirgari, Abdelfettah Belhabib, Saida Ibnyaich and Abdelouhab Zeroual
6359	Comparative Performance Analysis of Terahertz Antennas with Different Substrate Materials based on Graphene Patch Antenna	Rida Biqaa , Asma Khabba, Ibtissam Bahlaouane, Saida Ibnyaich, Hassan Belahrach and Abdelouhab Zeroual
0994	Time-Domain Numerical Modeling of Pulse Propagation in Two-Dimensional Graphene with Anisotropic Conductivity	Mohamed Moumou , Khalid Mounirh, Soufiane El Adraoui, Mohammed Kanjaa and Mohsine Khalladi
9978	The optimized Circularly Polarized Antenna for V2X applications	Abdelilah Ait Lahcen , Omar Ourahou, Samira Chabaa, Saida Ibnyaich and Abdelouhab Zeroual
9101	Numerical Modeling and Simulation of Monolayer Graphene in the Mid-Infrared Regime	Mohamed Moumou , Khalid Mounirh, Soufiane El Adraoui, Mohammed Kanjaa and Mohsine Khalladi

Session 5: Smart Grids, Power & Energy Systems 1

Chairs : Pr Raja Mouachi, Pr Mohammed Ali Jallal, Pr Zakaria Boulghasoul

Wednesday, April 22, 2026 17h30 – 19h00 (Room 1)

ID	Title	Authors
2125	Robust T--S Fuzzy H_{∞} Control for Maximum Power Point Tracking in Uncertain Photovoltaic Systems	Rabii Azdoud, Abdelmounaim Khallouq, Ali Margal, Soukaina El Daoudi, Fatima Zahra Loudifa, Abderrazzak El Abdallaoui and Asma Karama
3724	Hybrid PI-ANN control for DC bus voltage regulation in isolated power systems	Belkasem Imodane , Abdellah El Idrissi, Mohamed Benydir, Ajaamoum Mohamed and Bouachrine Brahim
5839	A Robust Deterministic Switched Hybrid GWO-P&O MPPT Algorithm for PV Systems under Partial Shading and Low Irradiance	Fatima zahra Loudifa , Soukaina El Daoudi, Ali Margal, Abderrazzak El Abdallaoui, Rabii Azdoud and Asma Karama
9887	Model Predictive Control-Based Smoothing of Power in Intelligent LED Lighting System	Mohammed Amine Jouahri , Zakaria Boulghasoul and Abdelouahed Tajer

Session 6: ONLINE SESSION 1

Chairs : Pr Naoual Mouhni, Pr Fatima Ezzahra Jakjoud

Wednesday, April 22, 2026 17h30 – 19h00 (Room 2)

ID	Title	Authors
6979	Deep Convolutional Neural Networks and Optimization Techniques for Date Palm Disease Detection	Toutou Soutane , Mohamed Lachgar, Mohamedou Cheikh Tourad and Nanne Mohamedade Farouk
2447	Efficient Road Surface Degradation Detection Using YOLO: A Comparison Between YOLOv8s and YOLOv11s	Roa El Dhimni , Walid Assila, Mohamed Lachgar, Hamid Hrimech and Zouhir Labyairi
5640	Deep Learning Parameter Optimization Through Hyperparameter Space for Drone Detection Using RF Scanner Power Spectrum	Massala Mboyi Gilles Yowel
9229	Smart Supply Chains: Predicting Disruptions in the Automotive Industry with Machine Learning Algorithms	Mustapha Jebor, Mahmoud Mistarihi , Ikhlef Jebbor and Hanaa Hachmi
4348	An Empirical Performance Study of Java REST Frameworks: Jersey, Spring MVC, and Spring Data REST	Osama Mansouri , Sohaib Laarichi, Mohamed Lachgar and Driss Essabbar
<u>2380</u>	Design of an Open Access Online Web Application for Determining the Position and Velocity of Satellites in Low Earth Orbits Considering Earth's Oblateness	Jorge Soliz, Diego Medina and Luciana Luna
5908	Multimodal Predictive Maintenance Using CNN and LSTM with Thermal Imaging	Amine Hridim , Raja Mouachi and Mohamed Chakraoui
6753	RF Setup to test a nanosatellite transceiver	Kouassi Kouassi , Boris Segret and Chiara Pasquariello

Session 7: Cybersecurity, Privacy, IA & DevSecOps

Chairs : Pr Ahmed El Kiram, Pr Abdeljalil El kari

Wednesday, April 22, 2026 17h30 – 19h00 (Room 3)

ID	Title	Authors
2894	DocQA-MS: A Privacy-Preserving Microservices Architecture for Medical Document Question-Answering Using Local RAG	Oumayma Ouedrhiri , Hiba Tabbaa, Achraf El Houfi, Saad Karzouz, Yassir Lambrass, Anas El Malyari and Mohamed Lachgar
6140	SafeOps-LogMiner: Real-Time CI/CD Security Vulnerability Detection Using Hierarchical Machine Learning	Hiba Tabbaa , Oumayma Ouedrhiri, Abdelilah Dahou, Walid Ahkouk, Mohamed Lachgar, Hind Elghaoussal and Asmaa El Meziane
7453	FLAML-AutoML for Efficient Network Intrusion Detection on UNSW-NB15	Hanan Moufid , Mohamed El Ghazouani and Ahmed El Kiram
7970	Observer-Based Detection and Mitigation of False Data Injection Attacks in Smart Grids Using Discrete Event Systems	Meriam Ghajdami , Mohammed Msaaf and Rafik Channa
3023	WildfireGuard AI: A Hybrid Multi-Modal Framework for Real-Time Wildfire Detection using Deep Learning and Satellite Telemetry	Oumayma Ouedrhiri , Achraf El Houfi, Saad Karzouz, Yassir Lambrass and Anas El Malyari
3058	Real-World Tomato Leaf Disease Detection: A Comparative Study of YOLOv5-- YOLOv12	Hiba Tabbaa , Oumayma Ouedrhiri, Mohamed Lachgar, Hamza Ettakaddoumi, Marouane Morfi, Ouiam Kamili, Oumaima Essaoud,

Session 8: AI and Computing 1

Chairs : Pr Samira Chabaa, Pr Younes Oulad Syad

Thursday, April 23, 2026 11h00 - 12h30 (Room 1)

ID	Title	Authors
5444	A Convolutional Neural Network Approach for Multi-Label Ocular Disease Classification Using the ODIR-5K Dataset	Noutaila Benzala and Mohamed Chakraoui
7178	A Cross-Language Performance and Usability Comparison of JSON, XML and Protocol Buffers in Java, JavaScript and Python	Khaoula Ait Bel Mehdi , Nisrine Lachguer, Mohamed Lachgar and Driss Essabbar
7595	Deep Learning for Remaining Useful Life Estimation of Turbofan Aircraft Engines	Aicha El Horre , Abdelali El Gourari and Abdelati Reha
9034	Evaluating the Performance of Simple and Hybrid Recurrent Deep Learning Models for Weather Forecasting: A Case Study of Marrakesh City, Morocco	Oussama Habib Allah , Abdeljalil El Kari and Elmostafa Elwarraki

Session 9: IA and Computing 2

Chairs : Pr Mohammed Chakraoui, Pr Nourane Laaffat

Thursday, April 23, 2026 11h00 - 12h30 (Room 2)

ID	Title	Authors
7577	Real-Time Greenfly Detection: A Comparative Study of YOLO (v8–v11) and RT-DETR	Tibari Imane , Mohamed Lachgar, Omar Achbarou, Abdelhak Kaddari and Hamid Hrimech
1427	Hybrid Retrieval Augmented Generation: Reliable and Accurate Question Answering	Yasser Dalali , Amine Zeguendry and Anass Aaroui
0219	Nano-MCP: V8 Isolates as a Lightweight Alternative to Containers for AI Agent Tool Execution	Badr Eddine Goumih and Khalid El Baamrani

Session 10: Antenna Design & RF for Space/Mobile Networks 2

Chairs : Pr Ahmed Oulad Said, Pr Zakaria El ouadi, Jamal AMADID

Thursday, April 23, 2026 11h00 - 12h30 (Room 3)

ID	Title	Authors
5409	Wearable Flexible Triangular Microstrip Antenna for Sub-6 GHz 5G Applications	Asma Oirgari , Ibtissam Bahlaouane, Saida Ibnyaich, Samira Chabaa and Abdelouhab Zeroual
5488	Ultra-Wideband Graphene THz Antenna for the Biomedical Applications: Substrate Thickness Optimization	Rida Biqaa , Asma Khabba, Ibtissam Bahlaouane, Asma Oirgari, Saida Ibnyaich, Hassan Belahrach and Abdelouhab Zeroual
0892	Design and Optimization of a Compact Hexagonal Antenna with Asymmetric E-Shaped Slot for Wireless and Satellite Application using ACOR	Ibtissam Bahlaouane , Asma Oirgari, Rida Biqaa, Abdelfettah, Belhabib, Saida Ibnyaich and Abdelouhab Zeroual

Session 11: Telecommunications and Electrical Engineering

Chairs : Pr Raja Assali, Pr Saida Ibnyaich

Thursday, April 23, 2026 14h00 – 15h30 (Room 1)

ID	Title	Authors
1621	DNN-Based Prediction of Propagation Delay: Analyzing Crosstalk and Length Effects	Mouaad Ait Errais , Khaoula Ait Belaid, Hassan Belahrach and Abdelouhab Zeroual
3027	Fast Meta-Adapted Graph Neural Channel Estimation for Cell-Free Massive MIMO in High-Mobility Scenarios	Safia Bounaqaia and Mohamed Boulouird
3191	A Compact 4-Port MIMO Triangular Patch Antenna for modern communication standards	Hind Abbaoui , Salah Eddine El Aoud and Hassan Belahrach
6924	State of Charge Estimation of a Lithium-Ion Battery Based on Open-Circuit Voltage with a DP Model	Ali Margal , Soukaina El Daoudi, Abderrazzak El Abdallaoui, Rabii Azdoud, Fatima Zahra Loudifa, Abdelmounaim Khallouq and Asma Karama
5436	Joint User Grouping and Power Allocation in RIS-Aided MISO-NOMA System under Rician Fading Channel	Karima Ait Bouslam , Jamal Amadid, Fatimzahra Bennioui, Radouane Iqdour and Abdelouhab Zeroual

Session 12: ONLINE SESSION 2**Chairs : Pr Naoual Mouhni, Pr Lamiae Jadoual, Pr Driss Essabbar****Thursday, April 23, 2026 14h00 – 15h30 (Room 2)**

ID	Title	Authors
0164	SatKit: A CubeSat Education Development Kit for Space Education at HCT-UAE	Mohd Sharizal Bin Alias , Mohammad Khalid Hamad Saleh Alnuaimi, Abdulla Matar Murad Abdulrahman Ali and Rashid Ahmad Ibrahim Saif Bin Kalban
8881	Integrated Optimization of Aerospace Propulsion Systems and Power Supply Architectures for Orbital and Atmospheric Applications	Abdelkrim Moufakkir , Hassan Belahrach and Ahmed Oulad-Said
7055	UWB-Vivaldi Antenna for High-Resolution Microwave Imaging Application.	Chaymae Chahboun , Fatimazahrae El Arroud, Safia Jaouad, Mariem Aznabet and Otman Mrabet
5128	From Aeronautical Information Management to Aeronautical Knowledge Management The mediating role of Information Technology in the relationship between Knowledge Management and Employee Performance. Case Moroccan Air Navigation Service Provider	Youness Belkhoumani and Abdelati Hakmaoui
2932	AI-Driven Professor Avatars: A Hybrid Framework for Scalable Higher Education	Mohamed Idrissi , Abdelali El Gourari, Mustapha Raoufi and Mohammed Skouri
<u>0717</u>	Circular Dielectric Resonator MIMO Antenna with Linear-to-Circular Polarization Conversion, Enhanced Bandwidth, and Reduced Mutual Coupling	Safia Jaouad, Chaymae Chahboun, Mohsine Khalladi, Otman El Mrabet and Mariem Aznabet
3927	dStation-chain: A Decentralized Solution for Ground Stations as a Service	Jose Edilson Silva Filho , Jose Danilo Da Silva Coutinho Filho, César Marcon, Jarbas Aryel Nunes da Silveira, Walter A. dos Santos, Laurent Vercouter and Alexandre Coelho
<u>5404</u>	Indigenous Design and Manufacture of 16U CubeSat with Micro Propulsion System and Broadband IR Spectrometer Payload.	Prithivirajan R
9928	Triangular fractal antenna for biomedical applications	Amal Aarab , Abdelouhab Zeroual, Abdelati Reha, Saida Ibnyaich and Omaima Benkhadda

Session 13: Antenna Design & RF for Space/Mobile Networks 3

Chairs : Pr Mohamed Saih, Pr Oumaima Benkhadda, Pr Abdelati REHA

Thursday, April 23, 2026 14h00 – 15h30 (Room 3)

ID	Title	Authors
7953	Compact Wideband L-Slot Rectangular Patch Antenna with Partial Ground for Satellite Communications	Fatim-Zahra Bennioui , Karima Ait Bouslam, Asma Khabba, Layla Wakrim, Saida Ibnyaich and Abdelouhab Zeroual
8032	Design and optimization of a miniaturized transparent antenna with genetic algorithm for sub-6 GHz 5G	Omar Ourahou , Fatima Ez-Zaki, Abdelilah Ait Lahcen, Layla Wakrim, Hassan Belahrach and Abdelilah Ghammaz
8199	Miniaturized Fractal Antenna Design inspired by Minkowsky Fractal for 5G NR Millimeter Wave Application	Sanae Attioui , Saida Ibnyaich and Abdelouhab Zeroual
6535	Compact Frequency-Reconfigurable Ultra-Wideband Patch Antenna for Sub-6 GHz 5G, Emerging 6G, and Multistandard Wireless Systems	Salah Eddine El Aoud , Hind Abbaoui, Nasima El Assri, Saida Ibnyaich and Abdelouhab Zeroual

Session 14: AI in Education, VR & EdTech 2

Chairs : Pr Samira Chabaa, Pr Sara Haddou Bouazza

Thursday, April 23, 2026 16h00 – 17h00 (Room 1)

ID	Title	Authors
0078	Immersive 3D Virtual Laboratory with an AI-Powered Pedagogical Avatar for Remote Practical Learning	Abdelali El Gourari , Nada Barir, Nawal Aouam, Mustapha Ezzini, Mustapha Raoufi and Mohammed Skouri
2034	A Modular E-Learning Platform with Granular License Management: Architecture, Implementation, and Multi-Role User Evaluation	Abdelali El Gourari, Widad Laassibi, Yasmine Es Semmami , Mustapha Ezzini, Mustapha Raoufi and Mohammed Skouri
3298	Augmenting Educators: A Human-AI Collaborative Framework for Remote Practical Learning	Abdelali El Gourari , Mustapha Ezzini, Mustapha Raoufi and Mohammed Skouri

Session 15: Finance, ERP & E-Government**Chairs : Pr Lhoussein Choukar, Pr Rida Belhouaoui****Thursday, April 23, 2026 16h00 – 17h00 (Room 2)**

ID	Title	Authors
3810	FinTech Integration in Banking ERP Systems : A Literature Review of Challenges and Strategic Responses in Morocco	Yasmina Chhibane , Driss Essabbar and Ishaq Asly
6426	DeepSeek-R1 vs. ChatGPT A New Challenge in AI Competition and Global Tech Dynamics	Ishaq Asly and Driss Essabbar
7763	Tokenisation of Financial Assets: Wealth Management Challenges and Prospects in Morocco	Boumadiane Kenza , Driss Essabbar and Ishaq Asly

Session 16: Deep Learning for Smart Infrastructure and Edge Intelligence**Chairs : Pr Abdelouahed Tajer, Pr Fatima Ezzahra Jakjoud, Lahcen****SELLAK****Friday, April 24, 2026 9h00 – 10h30 (Room 1)**

ID	Title	Authors
1864	Enhancing Building Dynamic Thermal Performance and Grid Stability via Model-Based Control	Mohammed Ennejjar , Mustapha Ezzini, Mohammed Ali Jallal, Samira Chabaa, Saida Ibnyaich and Abdelouhab Zeroual
2074	SE-LightCNN: A Lightweight Attention-Enhanced CNN for Bell Pepper Disease Classification	Asma Ait Ba , Samira Chabaa, Azzedine Dliou, Mohamed Zarboubi and Abdelouhab Zeroual
2105	Embedded Artificial Neural Networks for High-Precision Fault Location in Distribution Networks with High DG Penetration	Saad Sarih , Samira Chabaa, Zakaria Boulghasoul and Mostapha Lemkharbech
2944	Decentralized Edge embedded intelligence for Cooperative Drone Swarms using STM32 microcontroller and Zephyr RTOS	Jakjoud Fatimazahra , Aamali Kaoutar and Jakjoud Widad
6037	Towards Robust Urban Obstacle Perception for Visually Impaired Navigation: A Dataset and Baseline Study	Maryam Koraichi , Samira Chabaa, El Mehdi Cherrat, Abdelouhab Zeroual and Mohamed Zarboubi

Session 17: AI and Computing 3**Chairs : Pr Essaid El Bachari, Pr My Driss Laanaoui****Friday, April 24, 2026 9h00 – 10h30 (Room 2)**

ID	Title	Authors
8952	Comparative Study of Deep Learning Architectures for Facial Emotion Recognition	Majdouline Sabri , Youssef Ait Rais, Yassine Elouarnazi, Saad Anam and Fouzia El Abassi
0453	Hybrid Preprocessing and Deep Learning for Real-Time Aerial Accident Detection Using Unmanned Aerial Vehicles	Rajae Ziki , Amine Zeguendry and Majdoulin Sabri
8699	Toward AI-Augmented Project Management for Aeronautical and Satellite Systems	Souad Tissir and Hicham Sarir
1479	High-Resolution Estimation of Actual Evapotranspiration for Agricultural Drought Monitoring in Semi-Arid Wheat Fields in Morocco Using Machine Learning and Remote Sensing Data	Youness Ablila, Zaineb Bouswir, Maria José Escorihuela, Abdelhakim Amazirh, El Houssaine Bouras, Saïd Khabba, Jamal Ezzahar and Salah Er-Raki
7619	Downscaling MODIS Land Surface Temperature Over Semi-Arid Wheat Fields Using Multi-Scenario Optical and SAR Indicators	Zaineb Bouswir, Salah Er-Raki, Abdelhakim Amazirh, Saïd Khabba, Jamal Ezzahar, Ablila Youness and Abdelghani Chehbouni

KEYNOTE SPEAKERS



Keynote speaker 1 : Pr Adriano Camps, Polytechnic - University of Catalonia
Barcelona, Spain
Title : 2007–2025 — CubeSat Missions Developed and Contributed to by UPC's
NanoSatLab: From 3Cat-2 to 6GStarLab, and Beyond



Keynote speaker 2 : Pr Zouhair GUENNOUN Director of UCRST/UMVR Mohammed
V University Rabat, Morocco
Title : The University Center for Research in Space Technologies - A Success Story



Keynote speaker 3 : Pr Warren du Plessis, University of Pretoria, South Africa
Title : EW in Academia – Logical Fallacy or Self-evident?



Keynote speaker 4 : Prof. Marina Ruggieri, University of Roma, Italy
Title: System Architectures, AI and Cybersecurity in a Sustainable Space



Keynote speaker 5 : Dr Abbes KAILIL, XAR AEROSPACE and XAR AEROSYSTEMS,
Morocco
Title : Autonomous industrial drone systems with embedded AI

GENERAL CO-CHAIRS



Pr Abdelouhab ZEROUAL, Cadi Ayyad University, Marrakech, Morocco



Pr Ahmed OULAD SAID, Royal Moroccan Air Force Academy, Marrakech, Morocco