

**THE 2ND INTERNATIONAL CONFERENCE ON
ARTIFICIAL INTELLIGENCE, ROBOTICS, AND
CYBERSECURITY FOR EMERGING TECHNOLOGIES**

2nd Edition

GENERAL CHAIRS



Azidine GUEZZAZ

EST Essaouira, Cadi Ayyad University
Marrakech, Morocco



Vinayakumar RAVI

Prince Mohammad Bin Fahd University,
Khobar, Saudi Arabia

CHAIRS

- Said BENKIRANE, EST Essaouira, Cadi Ayyad University Marrakech, Morocco.
- Mourade AZROUR, FST Errachidia, Moulay Ismail University of Meknes, Morocco.
- Mouaad MOHY-EDDINE, National School of Arts and Crafts, Hassan II University, Casablanca, Morocco.
- Mohamed EDDABBAH, Cadi Ayyad University Marrakech, Morocco.
- Mohamed EL YAMANI, FP Taza. Sidi Mohamed Ben Abdellah University, Morocco.
- Said JABBOUR, CRIL - CNRS, Artois University, Lens, France.
- Vasudha Vedula, University of Texas Permian Basin (UTPB), USA
- Niresh Jayarajan, PSG CT, Coimbatore, India
- Maryam DOUBBA, Cadi Ayyad University Marrakech, Morocco.



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<https://aircet25.sciencesconf.org>

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2nd Edition

KEYNOTE SPEAKERS



Prof. Kishor Kumar Reddy
Stanley College of Engineering &
Technology for Women



Prof. Imad Zeroual
Moulay Ismail University of
Meknes, Morocco



Prof. S. Neelakandan
R.M.K Engineering College,
Chennai, India



Prof. Leandros Maglaras
School of Computer Science and
Informatics, De Montfort University,
Leicester LE1 9BH, UK



Prof. Ezequiel López Rubio
Departamento de Lenguajes y Ciencias de la
Computación, Universidad de Málaga



Prof. Michael Onyema Edeh
Faculty of Allied health and Applied
Sciences, Coal City University, Nigeria



Dr. Malathy Jawahar
Senior Principal Scientist & Professor AcSIR, CSIR- Central Leather
Research Institute (CSIR-CLRI),
Ministry of Science & Technology, Govt. of India, Adyar, Chennai, India.



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AIRCET'25 Conference

Program Time Slots

Timing GMT+1	Thursday, October 30, 2025			
08:30-09:30	Registration			
09:30-10:00	Opening Ceremony			
10:00-10:30	Coffee Break			
10:30-11:30	Keynote Speaker 1			
11:45-12:30	AIRCET-S1-P(28-36-37-40-47-71)			
12:30-13:30	Keynote Speaker 2			
14:00	LUNCH			
15:00-16:00	Keynote Speaker 3			
16:00-16:30	Keynote Speaker 4			
16:00-16:30	Coffee Break			
16:30-18:00	AIRCET-S2-P (13-25-63-77)	AIRCET-S3-P(17-27-35-50-56)	AIRCET-S4-O(1-2-6-18-19-20-38-39-40)	AIRCET-S5-O(3-10-15-44-59-61-68-76-81)

Timing GMT+1	Friday, October 31, 2025			
09:00-10:00	Keynote Speaker 5			
10:00-11:00	Keynote Speaker 6			
11:00-11:30	Coffee Break			
11:30-13:00	AIRCET-S6-P(8-9-48-64)	AIRCET-S7-P(11-43-51-62-63)	AIRCET-S8-O(24-30-31-32-55-67-72-75-80)	AIRCET-S9-O(5-12-22-23-33-34-52-65)
13:00	LUNCH			
15:00	Keynote Speaker 7 / AIRCET-S10 O(4-21-53-54-58-60-66-74)			

Detailed Program

Thursday, October 30, 2025

Registration	08:30 – 09:30
Room: Registration Room	
Opening	09:30 - 10:00
Welcome of participants to the conference and Opening Ceremony	
▪ President of Cadi Ayyad University, Marrakech, Morocco ▪ Director of EST, Essaouira, Morocco ▪ President of the APEBI Morocco ▪ AIRCET'25 Conference Organizing Committee	
Room: AMPHI	
Coffee Break	10:00 - 10:30
Room: Meeting Foyer	
Keynote Speaker 1	10:30 - 11:30
Beyond Power and Creativity: Building Sustainable & Trustworthy Generative AI	
Dr. Imad Zeroual , FST Errachidia, Moulay Ismail University of Meknes, Morocco	
Session Chairs:	
Dr. Said Benkirane , EST Essaouira, Cadi Ayyad University Marrakech, Morocco	
Dr. Mourade Azrou , FST Errachidia, Moulay Ismail University of Meknes, Morocco	
Dr. Ahmed Jadir , FSJES Ain Chok, Hassan II University Casablanca, Morocco	
Room: AMPHI	
Technical Sessions	11:30 - 12:30

AIRCET-S1: AI Innovations in Healthcare

Session Chairs :

Dr. El Mahdi El Guarmah , ERA Marrakech, Morocco

Dr. Youssef Bourfia, EST Essaouira, Cadi Ayyad University, Morocco

Room: R1

ID 28: A One-Dimensional Simulation of Enhanced Salt Rejection and Selectivity in RO Membranes via Multifunctional Material Integration

El allaoui Achraf , El Ansari Loubna, Semmar Atae, Dachry Wafaa, Gziri Hassan and Medromi Hicham

ID 36: A Deep Supervision Attention-UNet for Precise Multimodal MRI Brain Tumor Segmentation

Sara Bouhafra, Hassan Elbahi

ID 37: Efficient Pap-Smear Classification via GA-DnCNN Denoising and SE-Gate-Guided VGG16-ViT

Salma OUSSAHI, Aziz DAROUICHI, and El Mahdi EL GUARMAH

ID 40: Non-Invasive Blood Pressure Estimation in Real-Time Using PPG, ANN and MIMIC-2 dataset

Hicham Loumissi, Adil Barra, Najat Messaoudi, Othmane Elbadlaoui, Sanbouli hamza, Bahloul Bensassi And Hicham Medromi

ID 47: A Bibliometric Analysis of AI-Driven Smart Wearable Textiles

Jaafar Ahadad, Hicham Behja, Hicham Medromi

ID 71: Agentic Artificial Intelligence for Adaptive Hemodialysis Monitoring and Control

Akkaoui Achraf , Zahidi Yassine, Elmoufid Mohamed , Dachry Wafaa, Gziri Hassan And Medromi Hicham

Keynote Speaker 2

12:30 - 13:30

Intelligent Species Identification in Leather using AI Powered Microscopic Analysis

Dr. Malathy Jawahar, Senior Principal Scientist& Professor AcSIR, CSIR- Central Leather Research Institute (CSIR-CLRI)

Session Chairs:

Dr. Vinayakumar Ravi, Prince Mohammad bin Fahd University Khobar, Saudi Arabia

Dr. Youssef Taouil, EST Essaouira, Cadi Ayyad Marrakech, Morocco.

Room: R1

Lunch

13:45 – 14 :45

Keynote Speaker 3	15:15 - 16:00
Cybersecurity in the Age AI Dr. Lendros, School of Computer Science and Informatics of De Montfort University Session Chairs: Dr. Mohamed Eddabbah, EST Essaouira, Cadi Ayyad Marrakech, Morocco Dr. Mouaad Mohy-Eddine, ENSAM Casablanca, Hassan II University, Morocco Room: AMPHI	
Keynote Speaker 4	16:00 - 16:30
Cybersecurity in Education Sector: Threats and Solutions Dr. Michael Onyema Edeh, Dean, Faculty of Allied health and Applied Sciences, Coal City University, Nigeria. Session Chairs: Dr. Aziz Darouichi, FST Marrakech Cadi Ayyad University, Morocco Dr. Imad Zeroual, FST Errachidia, Moulay Ismail University of Meknes, Morocco Room: AMPHI	
AIRCET-S2: AI for Cybersecurity Session Chairs : Dr. Mohamed CHINY, EST Essaouira, Cadi Ayyad Marrakech, Morocco Dr. Hassan El Bahi, ENCG Marrakech, Cadi Ayyad University Marrakech, Morocco Room: R1 ID 13: Generative Adversarial Networks for Intrusion Detection Enhancement: Key Advantages and Challenges Hajar Fares, Noura Aknin ID 25: Hybrid Deep Learning Model for Intrusion Detection in IoT Networks Using the CICIoT2023 Dataset Abdeslem Blali, Souhayla Dargaoui, Mourade Azrour, Azidine Guezzaz, Fatima Amounas, and Abdulatif Alabdulatif ID 63: Challenges and Innovations in Evaluating Large Language Models vs. Traditional Machine Learning Laila Boullous, Houda Bichri, Mustapha Hain, Adil Chergui, Issam Jadli ID 77: Feature-Efficient Mobile NetV4 Intrusion Detection for Cyber-Physical Systems K. Bella, S. Ennajar, A. Guezzaz, S. Benkirane, M. Azrour and M. Mohy-Eddine	

AIRCET-S3: AI for Sustainable and Renewable Energy

Session Chairs :

Dr. Mohamed EL YAMANI, FP Taza, Morocco

Dr. Jamal Mabrouki, FS Rabat, Mohamed V University Morocco

Room: R2

ID 17: Detecting urban expansion through time-series remote sensing and Random Forest in Tamesna and Tamansourt

Mohamed Abdedaïme, Bilal El Kanfoud, Fatima Zahra Moussaid, Ahlam Qafas, Azidine Guezzaz, Jamal Mabrouki

ID 27: CRS-ML: A Machine Learning and Remote Sensing Framework for Crop Classification (Online)

A. El Mejdî, J. Antari, M. Kasri, And A. Sadiq

ID 35: A Comparative Study of YOLO's Object Detection Models: Architecture, Performance, and Limitations

ID 50: PMSM Control Optimization using GA and PSO in RO pump for Desalination

Tabssissi Kaouthar, Semmar Atae, El Ansari Loubna, Rabbah Nabila, Medromi Hicham, Machkour Nadia

Meriem Ennaki, Soukaina El Miri, Mohammed Nasri, Mostafa Saadi

ID 56: Case of Study for Optimizing Hybrid and Electric Vehicles Chassis Design using Artificial Intelligence

Moussa Kalli Salissou, Yassine Zahidi, Mohamed El Moufid, Wafaa Dachry, Hassan Gziri, Hammadi Laghradat, Hicham Medromi

AIRCET-S4: AI Innovations in Healthcare

Session Chairs:

Dr. Othmane El Badlaoui, Suptech Higher School Essaouira, Morocco

Dr. Ilias Ouachtouk, ENSAM Casablanca, Hassan II University, Morocco

Room: Online

ID 1: Tiny ML and XAI in Healthcare: Advances, Use Cases and Challenges

Lina Abousalama, Sanae Mazouz

ID 2: The application of AI and IoT in the Implementation of -healthcare in smart city

Ali Ikkou, Lahoucine Ikkou, Bilal El Kanfoud, Mohamed Abdedaïme, Mohamed Benhlal

ID 6: Predicting Autism Spectrum Disorder using Machine Learning techniques: state of the art

Lamia Herrou, Souhaila Jabri, Sanae Mazouz

ID 18: Comparison of Machine Learning Models — SVM and LSTM — for Predicting the NIR Spectrum of Hematocrit in a Drop of Human Blood

Fatima Ezzahra El Kamounya, Hassan Oukhouya, Abdellah Madani, Khadija EL Kamouny

ID 19: Comparative Assessment of Algorithms for ECG Signal Denoising under Realistic Noise Conditions

Ameziane Hamza, Zahidi Yassine, Rabbah Nabila, El-Moufid Mohamed, Machkour Nadia, Medromi Hicham

ID 20: Comparative Analysis of Cleveland and Framingham Datasets for Heart Disease Prediction

Jabri Souhaila, Herrou Lamiae, Mazouz Sanae

ID 38: HIM-Net: Hybrid Inception-MobileViT with Inverted Residual Blocks for Diabetic Retinopathy Grading

Kawtar Naim, Aziz Darouichi

ID 39: Marine Predators Algorithm for Optimizer Configuration in Breast Ultrasound Image Segmentation

Fouzia El Abassi , Aziz Darouichi, and Aziz Ouaraab

ID 46: Stress forecasting Algorithm using HRV signals for improved glycemic management in populations with type 1 diabetes

Assia Saydtahiri, Azeddine Elmajidi, Anas Hatim and Mehdi Ait Bourkha

AIRCET-S5: AI Applications

Session Chairs:

Dr. **Youssef Farhaoui**, , FST Errachidia, Moulay Ismail University of Meknes, Morocco

Dr. **Mohamed Chakraoui**, FP Khouribga, Moulay Sultan University Beni Mellal, Morocco

Room: Online

ID 3: Synergistic Structures: A Novel Framework for Complex Network Analysis

El Ouatiq Meriem, Ait Abdelouahad Abdelkaher, Dahmouni Abdellatif

ID 10: ML, AI and IoT applications on judicial efficiency in smart city: Advantages and challenges

Bilal El Kanfoud, Ali Ikkou, Mohamed Abdedaïme, Mohamed Dakkon, Abdal-lah Abarda

ID 15: Ethical Concerns of AI Surveillance: A Comparative Study between Morocco and Developed Countries

El Yazid Radid, Sanaa El Filali, El Habib Benlahmar

ID 44: Overview of Intelligent Student Modeling Techniques in Adaptive Learning Systems: From Rule-Based to Deep Learning Approaches

Nisrine El Ayat, Mohammed Boutalline, Chaimae Ouazri

ID 59: Advancing Hate Speech Detection Using Transformer-Based Models: A Case Study with Hate BERT

M'hamed Hassane, Mourade Azrou, Abdelaziz Hessane, Azidine Guezzaz

ID 61: Organizational Communication Towards the Digitalization of Female Entrepreneurship in Morocco.

ID 68: Application of Advanced Digital Technologies in Intermodal and Multimodal Transport

Khalid Anbri, Mohamed El Moufid, Yassine Zahidi, Wafaa Dachry, Hassan Gziri, Hicham Medromi

Hanafi Moulay Driss, Kably Houda, Mohammed Elkouche and Fatima Zohra Alaoui Mahrez

ID 76: Blind Image Quality Assessment Using PathIntegral Local Binary Patterns Approach

Yassine Benhlal, Zineb Elmazouzi, Abdelkaher Ait Abdelouahad, Abdellatif Dahmouni

ID 81: A Survey of Fake News Detection Using Machine Learning, Deep Learning, and Large Language Models

Wesam Ahmed, Azidine Guezzaz, Rayan Shukri, Sultan Hassan

Friday, October 31, 2025

Keynote Speaker 5

09:15- 10:00

The Rise of Neural Rendering In Computer Graphics

Dr. Ezequiel López Rubio, University of Málaga, Spain.

Session Chairs:

Dr. El Mahdi El Guarmah , ERA Marrakech, Morocco

Dr. Said Jabbour, Artois University France

Room: AMPHI

Keynote Speaker 6

10:00 - 10:45

Smart Neurocognitive Knowledge and Data Intelligence

Dr. S. Neelakandan, R.M.K Engineering College, Chennai, India.

Session Chairs:

Dr. Mourade Azroul, FST Errachidia, Moulay Ismail University of Meknes, Morocco

Dr. Mohamed Eddabbah, EST Essaouira, Cadi Ayyad University Marrakech, Morocco

Dr. Said Benkirane, EST Essaouira, Cadi Ayyad University Marrakech Morocco

Room: AMPHI

Coffee Break

Room: Meeting Foyer

Technical Sessions

11 :00-12:00

AIRCET-S6: AI Innovations in Healthcare

Session Chairs :

Dr. Zahra Asebriy, EST Essaouira, Cadi Ayyad University Marrakech, Morocco

Dr. Hammadi Laghrifat, Suptech Higher School Essaouira, Morocco

Dr. Hasna Hissou, FS EL Jadida, Chouaib Doukkali University, Morocco

Room: R1

ID 8: Ethical Challenges of Artificial Intelligence in Healthcare Systems: Moving Towards a Responsible and Equitable Approach

Salma Sabrou, Azidine Guezzaz, Said Benkirane, Mourade Azroul

ID 9: Multi-Objective Intelligent Control and Fault Di-agnosis of a Medical Centrifuge using PSO, MLP, and CNN

Abdoulhaidou Moussa Moussa, Hicham Behja, Laghridat Hammadi, Nora BAAALLA, Hicham Medromi

ID 48: Evaluation of Machine Learning Models for Predicting Myocardial Infarction Complications

Afaf Elarfaoui, Mohamed Sadik, Zineb Choukairi, Othmane El Badlaoui, Hicham Medromi

ID 64: Graph Neural Networks in Prostate Cancer Diagnosis: A Thematic Review and Bibliometric Study

Hamza Sanbouli, Hicham Behja, Hicham Medromi

AIRCET-S7: AI Applications

Session Chairs :

Dr. **Maryam Douiba**, Cadi Ayyad University Marrakech. Morocco

Dr. **Idriss El mourabit**, EST Essaouira, Cadi Ayyad University Marrakech, Morocco

Room: R2

ID 11: Improved LRCN for Accurate Spatiotemporal Video Classification

Manal Benzyane, Mourade Azrour, and Said Agoujl

ID 43: The Adoption of artificial intelligence in Moroccan companies: Determining factors, challenges and impact on performance

Raja Hidane, Hind Bouzekraoui

ID 51: Small Language Models for STEM in Low-Connectivity Schools

Charaf Hamidi, Hasna Mahmoud, Mohamed Badiy, Hicham Tribak, and Salma Gaou

ID 62: Spatio-Temporal Anomaly Identification in NDVI Sequences from Satellite Imagery Using 3D Deep CNNs

Chahrazad Zargane, Azidine Guezzaz, Said Benkirane, and Mourade Azrour

ID 69: A Comparative Analysis of Deep Learning Models for Real-Time Traffic Light Detection and Classification in Autonomous Vehicles

Oumayma Lablali, Dounia AL Bourakadi, Hiba Ramadan, My Abdelouahed Sabri, Khalid Alaoui Zidani, Ali YAHYAOUY

AIRCET-S8: AI Innovations in Healthcare

Session Chairs:

Dr. **Charaf Eddine Ait Zaouiat**, Chouaib Doukkali University, Morocco

Dr. **Asma Sbai**, Faculty of Medicine and Pharmacy, Cadi Ayyad University Morocco

Room: Online

ID 24: A literature review on the Role of OWL Biomedical Ontologies in Health Information Systems

Zinnane Fatima, Fernane Mounsif, Madani Abdellah

ID 30: AI Driven Optimization of Medical Waste Management for Healthcare Systems

Tibibt Imane, Zahidi Yassine, El Moufid Mohamed, Gziri Hasan, Dachry Wafaa, and Medromi Hicham

ID 31: Breast Cancer Detection in Mammography via Deep Learning

Chaima Soubai, Insaf Bellamine, Abdelkader Ait Abdelouahad

ID 32: Digital technologies in hemodialysis therapy

Ikram El Jai, Mouad El Mouzoun El Idrissi , Yassine Baskoun , Ikram Debbarh , Wafaa Dachry, Hassan Gziri, Hicham Medromi

ID 55: A novel approach for automatic brain tumor segmentation using 3D U-Net with CBAM module

Khaoula Echine, Aziz Darouichi

ID 67: Enhancing Clinical Hemodialysis Management through Machine Learning and Internet of Medical Things

Ilyasse Boujraf, Yassine Zahidi, Mohamed El Moufid, Hassan Gziri, Wafaa Dachry, and Hicham Medromi

ID 72: Towards an Intelligent System for Prostate Evaluation: An AI-Based Perspective under Industry 4.0

Gouram Chaimaa, Behja Hicham, Medromi Hicham

ID 75: NaViT for Alzheimer's Disease Classification on ADNI Dataset

Mourad Hikki, Aziz Darouichi, Abdessamad Elboushaki

ID 80: Advances in Early Detection and Diagnosis of Chronic Kidney Disease: A Comprehensive Review

Wesam Ahmed, Azidine Guezzaz, Nasser Naim Qanabta

AIRCET-S9: AI for Cybersecurity

Session Chairs :

Dr. **Chaimae Hazman**, EMSI Marrakech

Dr. **Abdelaaziz Hessane**, FS Meknes, Moulay Ismail University Morocco

Dr. **Pooja M R**, Vidyavardhaka College of Engineering, MysuruKarnataka , India

Room: Online**ID 5: Recognizing human activity in cyber-physical systems through improved machine learning methods**

Zineb Lazrak, Anas Bouayad

ID 12: Improved Computational Diffie-Hellman-based Mechanism for Cyber-Physical Security

Souhayla Dargaoui, Abdeslem Blali, Mourade Azrou, Ahmad El Allaoui, Fatima Amounas, Azidine Guezzaz, and Abdulatif Alabdulatif

ID 22: A New Green Proof-of-Work Mining for Blockchain

Youssef Lamriji, Mohammed Kasri, Said Benkirane, Khalid El Makkaoui, Abderrahim Beni-Hssane, Ibrahim Ouahbi

ID 23: A Machine Learning Approach to Improving Behavior-Based Firewall Defense Systems

Younes Wadii, Fatima Ezzahra El Kamouny, Ahmed Bentajer, M. Ouriha

ID 33: Strengthening OT Cybersecurity in Smart Grids Through Artificial Intelligence: Review

Hind Lakhal, Mourad Zegrari, Ayoub Bahnasse

ID 34: Deep Learning for Reliable Threat Detection in Healthcare IoMT Systems

Hafida Assmi , Azidine Guezzaz, Said Jabbour, Said Benkirane, Ilham Lamzouri, and Mourade Azrou

ID 52: Detecting Insurance Fraud in Imbalanced Claims Data Using Classical Machine Learning Techniques

Adil Elmansori, Abderrahim El Mhouti, Abdelmounaim Bouhlali, Mohamed Fahim, Tarik Boudaa

ID 65: Resolving Class Imbalance in Credit-Card Fraud via GAN Synthetic Data and Kolmogorov–Arnold Networks

Mohamed Akouhar, Mohamed El Fatini, Abdallah Abarda, Mohamed Ouhssini, Elhafed Agherrabi

LUNCH

14 : 00

Technical Sessions

15:00 - 16:00

AIRCET-S10 : AI for sustainability

Session Chairs:

Dr. **Mohamed Khalifa Boutahir**, ENIAD Berkane, Mohamed I University Oujda, Morocco.

Dr. **Deepa Krishnan**, NMIMS University Mumbai, Maharashtra India

Dr. **Ali Yahyaoui**, FS Fes, Sidi Mohamed Ben Abdellah Morocco

Room: Online

Keynote Speaker 7

Deep Learning For Medical Image Applications

Dr. C Kishor Kumar Reddy, Stanley College of Engineering & Technology for Women

ID 4: Smart Healthcare Pillbox: Enhancing Medication Adherence through Artificial Intelligence, Cybersecurity, and Robotics

Khadija Mokhtari, Hanane EL Oualy, Bekkay Hajji and Madani Hamid

ID 21: Forest Fire Prediction: From Classical Models to Machine Learning

Chaimae Ouazri, Abderrahim El Mhouti, Mohamed Fahim , Nisrine El Ayat

ID 53: The Evolution of Emerging Technologies in Autonomous Vehicles: A Bibliometric and Systematic

Nabaha Achraf, Messaoudi Najat, Barra Adil, Bensassi Bahloul

ID54: Optimizing deep learning for plant disease classification using hyperband and Bayesian strategies

Noredine Hajraoui, Mourade Azrou, Yousef Farhaoui, Ahmad El Allaoui

ID 58: Blockchain, Tokenization and Smart Contracts for Renewable Energy Trading

Youssef Lamriji, Mohammed Kasri, Said Benkirane, Khalid El Makkaoui and Abderrahim Beni-Hssane

ID 60: The Transformative Influence of Artificial Intelligence on Moroccan Higher Education

Moulay Driss Hanafi, Houda Kably, Mohammed El kouche

ID 66: Gated Recurrent Unit for predicting a renewable energy system's generation

Ilham Idrissi Jouicha, Khalid Anbri, Ouafae Jbahi, Atae Semmar, Hassan Gziri, Wafaa Dachry, Hicham Medromi

ID 74: AI for Energy-Efficient Data Centers: A Bibliometric Review

Rajab Issam, Benhadou Siham, Medromi Hicham

Discussions and Closing

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