

People's Democratic Republic of Algeria
Minister of Higher Education and Scientific Research
University KASDI Merbah – Ouargla
Faculty of New Technologies of Information and
Communication





The 1 st National Conference on Artificial Intelligence and Digital Transition (CAIDT'2025)

April 29, 2025 Ouargla, Algeria

SPONSORED BY:











GAIDT'2025

8:00AM - 8:30AM

REGISTRATION

8:30AM - 9:00AM

OPENING SESSION

9:00AM - 10:50AM

PLENARY SESSIONS

10:50AM - 12:00AM

COFFEE BREAK + POSTER SESSION

1:30PM - 17:35PM

ORAL + ONLINE SESSION

18:00PM - 18:30PM

CLOSING CERAMONY AND CERTIFICATE AWARDING

PLENARY SESSIONS



AUDITORIUM HALL, UNIVERSITY RECTORATE

Plenary session 1	09.00-09.30	Title: National Strategy on Digital Transition M. Sofiane Bouzid, Representative of the High Commission for Digitalization
Plenary session 2	09.30-10.10	Title: Embedded AI for critical robotics: Origins and perspectives Pr. Riad Challali, Nanjing university of science and technology, China
Plenary Session 3	10.10-10.50	Title: Vers l'industrie 4.0 : de la recherche à la robotique industrielle appliquée Pr. Bazid Khelifa, Italian Institute of Technology, Italy

10:50 AM

COFFEE BREAK





FOR PARTICIPANTS IN THE CONFERENCE
WHO ARE AFFILIATED WITH THE UNIVERSITY
OF OUARGLA, THEIR PARTICIPATION MUST
MANDATORILY BE IN PERSON.
AS FOR PARTICIPANTS FROM OUTSIDE THE
UNIVERSITY OF OUARGLA, THEY HAVE THE
OPTION TO CHOOSE BETWEEN
PARTICIPATING IN PERSON OR ONLINE."

POSTER SESSION

TIME: 10:50 AM - 12:00 AM

SISSION CHAIRS : DR. BOUZIDI MANSOUR + DR. BENDAOUD MOHEMDD LAMINE -Dr. toiimi chahra7fd



AUDITORIUM HALL, UNIVERSITY RECTORATE

Pattern Recognition and Diagnosis of Open Circuit Faults with Inverter Reconfiguration in DTC- SVM of Induction Motor Drive Using Fuzzy Logic	Younes Tamissa ; Farid Kadri	
Detection and Diagnosis of Open Circuit Faults in DTC-SVM Induction Motor Drives Using Neural Networks and Inverter Reconfiguration	Younes Tamissa ; Farid Kadri	
LIMITATIONS AND CHALLENGES OF AI APPLICATIONS IN CIVIL ENGINEERING.	Zahira SADOUN ; Riadh Bennai ; hassene ait atmane	
Toward Algeria Digital Governance: The Role of Artificial Intelligence	OULD RABAH Mohamed Amine; Azzaoui Nadjet	
LSTM-DRIVEN ANOMALY DETECTION FOR MITIGATING DROP ATTACKS IN UAV NETWORKS	NECIRI Said ; Noureddine CHAIB; Mohamed Ben Bezziane ; Abderrahmane Boussaid	
REINFORCEMENT LEARNING FOR CAPACITATED VEHICLE ROUTING PROBLEM	Chaima Ayachi Amar; Oussama Aiadi ; Khaoula Drid ; Khadra Bouanane	

Un system intelligent pour la surveillance et contrôle d'un moteur à induction en utilisant l'IA	Amani Ababsa
Direct Power Control of Three-Level Grid-Connected Converters Using Fuzzy Logic Controller	abdelhak ouali; mohammed messaoud zioud; Azeddine Mehaouchi; Farid Kadri; mansour bouzidi
Enhancing Perception in Self-Driving Vehicles with An Efficient 2D YOLO-Based Object Detector	Chahira Kezzal ; Selsabil Benderradji ; Azeddine Benlamoudi ; Salah Eddine Bekhouche ; Abdelmalik Taleb-Ahmed
Accurate Classification of Wheat Leaf Diseases Using Deep Learning and Genetic-Algorithm Tuning	Abdelatif Hamdi
Artificial Intelligence and Advanced Control for Renewable Energy Systems	miloudi khaled ; Bouguettaya Tarek

01

ORAL+ ONLINE SESSION 01:

ADVANCED MIDCAL IMAGE AND DIAGNOSTICS AI



GOOGLE MEET JOINING INFO VIDEO CALL LINK: https://meet.google.com/uoz-hyaf-txy

SISSION CHAIRS : DR. BACHIR SAID - DR.CHERGUI ABDELHAKIM -Dr. Khadidja Ameur





AUDITORIUM HALL, UNIVERSITY RECTORATE

13.30-13.45	A New Take on Medical Segmentation: Lightweight UNet with Enhanced Loss	Mohamed Ben bezziane ; Anouar Khaldi ; Adel Zga ; Said Neciri ; Saida Baguigui ; Hamza beggui
13.50-14.05	Feature Optimization for Parkinson's Detection Using BGWO and Rime on VGG19-Extracted Representations	Benchabane Abderrazak ; Charif Fella
14.10-14.25	Feature Selection Using Slime Mould Algorithm on Vision Transformer Features for Parkinson's Disease Detection	Abderrazak Benchabane; Fella Charif ; Hedifa Dida ; Souad Ouled Salem ; MarouaMerizig
14.30-14.45	Block-Level Feature Extraction in EfficientNetv2b3 for Skin Cancer Detection Using Cloud-Supported Classification	Maroua Cheknane Sarra Saida BOUDOUH Tahar BENDOUMA
14.50-15.05	Transforming Breast Cancer Diagnosis: Deep Learning-Based CAD Systems for Detection, Segmentation, and Classification	Hama Soltani ; KHAOULA DRID; Mohamed Yassine Haouam ; Issam Bendib; Mohamed Amroune

 15.10-15.25 	Five-Stage Alzheimer's Disease Classification Using DenseNet201 for Feature Fusion of T2-Weighted and PD-Weighted MRI Brain Images	l zoulikha bebboukha
 15.30-15.45	Skin Cancer Segmentation Using U-Net	MERIEM CHIBANI



ORAL+ ONLINE SESSION 02:

SECURITY, IOT, AND AUTONOMOUS SYSTEMS





GOOGLE MEET JOINING INFO VIDEO CALL LINK: https://meet.google.com/baw-sytu-ftu

SISSION CHAIRS : DR. EUSHI SALAH - DR. MECHALIKH CHAREDDINE - DR. NEDJLA BETTAYEB



VIDEOCONFERENCE ROOM, UNIVERSITY RECTORATE

 13.30-13.45 	Optimization of Cluster Head Selection to Enhance the Efficiency of Wireless Sensor Networks	Abdessalam Messiaid; Souhila Kettouch; Benraghda Ahmed yasser; Berguia Sara
13.50-14.05	A Comparative Evaluation of DIO Replay Attack in RPL- Based IoT	Tahar Guerbouz ; Akram Zine Eddine Boukhamla
14.10-14.25	Attacks Against RPL Routing Protocol: A Novel Propagation-Based Classification Approach	Tahar Guerbouz ; Akram Zine Eddine Boukhamla
14.30-14.45	A Lightweight Al-Based Obstacle Avoidance System for Low-Cost UAVs	Mohamed El Amine Fekair Nadjet Azzaoui Messaoud Benguenane

 14.50-15.05 	Siamese Network-Assisted Standard Deviation Watermarking	Ferik Brahim; Laimeche Lakhdar ; Meraoumia Abdallah ; Laouid Abdelkader
 15.10-15.25 	A Novel Chaos-Based Encryption Scheme for Securing Medical Images	Hadjer Bourekouche Hassina Madjour Ouidade laouamen
 15.30-15.45 	Hybrid Computing Approaches for Efficient Data Management GPU-Accelerated Skyline Queries for Energy-Efficient Smart Home Device Selection	walid khames;
 15.30-15.45	IOT-BASED WEB APPLICATION FOR MONITORING IRRIGATION	Hanane Ouaar



ORAL+ ONLINE SESSION 03:

AI FOR SUSTAINABLE INFRASTRUCTURE & PUBLIC SYSTEMS



GOOGLE MEET JOINING INFO VIDEO CALL LINK: https://meet.google.com/ygr-zqod-cav

SISSION CHAIRS: DR.HOCINE MERABTI - PR. OUSSAMA AIADI - Dr. Aicha Korichi



DEFENSE ROOM, FSNV FACULTY

13.30-13.45	Lithology Classification in Subsurface Geology	Lahouel ; Basma Hamrouni ; Khadra Bouanane ; Faiza
		Zidouni ; Wafa Kafi

13.50-14.05	A Machine Learning Framework to Predict Dynamic Young's Modulus from Non- Conventional Reservoir (Rhourde Nouss field, Algeria)	Hanane Kermia; Ouafi Ameur-Zaimeche ; Mohamed Salah Belksier; Lamamra Sami ; Mohamed Amine Hacini ; Ayoub Boutaghane
 14.10-14.25 	Optimizing Dropout Prediction for Personalized Prevention in MOOCs: A Comparative Study of Feature Selection Techniques for Machine Learning Models	Houssam Eddine Aouarib ; Fatima Zohra Laallam; Salah Eddine Henouda; Mohamed Fouzi Djouhri
 14.30-14.45 	A Comparative Analysis of Fractional and Standard PINNs for SIR Modeling of COVID-19 in Algeria: Performance, Accuracy, and Implications	Islam Boubellouta ; Abdallah Bensayah
 14.50-15.05 	PyCaret Machine Learning For Predicting Water Potability	Nadia Hoggas ; Ouassila Hioual; Amel Hebboul
 15.10-15.25 	Artificial Intelligence Techniques in Civil Engineering	Zahira SADOUN ; Riadh Bennai; hassene ait atmane

15.30-16.00

GOFFIFF BRIFAR





ORAL+ ONLINE SESSION 04:

AI APPLICATIONS IN TEXT, SPEECH, AND DIGITAL

TRANSITION



GOOGLE MEET JOINING INFO VIDEO CALL LINK: https://meet.google.com/uoz-hyaf-txy

SISSION CHAIRS : DR.FAROUQ ZITOUNI - PR. CHEBARA FOAD - DR. DAHRAOUI NADIA

AUDITORIUM HALL, UNIVERSITY RECTORATE

 16.00-16.15 	A Hybrid Deep Learning Approach for Arabic Speech Emotion Recognition Using Acoustic and Spectrogram Features	Dalal Djeridi; Bachir Said ; Mourad Belhadj
 16.20–16.35 	Leveraging Multibranch Architectures for Multimodal Document Image Classification	Abdeldjalil Hammouya ; Taher Rezzag Bedida ; Mohamed Lamine Ben Habirech; Mohammed Abdelhadi Sellami ; Oussama seyf elislam Hamzi ; Abdeldjalil Tedjini
 16.40-16.55 	Harnessing Transformer Models for Clinical Text Classification in Radiation Oncology: BERT, DistilBERT, RoBERTa, XLNet, and ALBERT.	Ines Aouria ; Bilal Benarabi ; Houari Toubakh ; Messaoud Mezati; Noureddine Zerhouni
 17.00-17.15 	Mobile Platform For Purchasing Tickets "Setram Tickets Ouargla"	Nadjet Azzaoui ; Zakaria Bessedik ; Mohamed Lazhar Tohami ; Souhil Koudia ; Youcef Osmani ; Mohamed El Amine Fekair
 17.20-17.35 	Movie Recommendation through Synopsis Analysis: A Content-Based Approach	Nawal SAD HOUARI ; Maissa Khadidja MORALENT ; Haféda ALIOUA

17.40-17.55

Transforming Algerian Industry Through Intelligence: Academic Insights on Al and Digital Transition

BENALI Abdelkrim ; BENALI Somia



ORAL+ ONLINE SESSION 05:

ADVANCED TECHNIQUES IN SENSING, CONTROL, AND SIGNAL PROCESSING





GOOGLE MEET JOINING INFO VIDEO CALL LINK: https://meet.google.com/baw-sytu-ftu



VIDEOCONFERENCE ROOM, UNIVERSITY RECTORATE

SISSION CHAIRS : PR. BELAL KHALDI - DR. MOHAMMED SAYAH MOAD - DR. GAMOUH SAMIA

 16.00-16.15 	LSTM-Based Estimation of Attitude Sensor RUL	Hicham Henna; Aissa Boutte ; Boubakeur Rouabah; Mohamed Redouane Kafi ; Narimene Mimoun
16.20-16.35	Enhancement of GPS signals acquisition in non- homogeneous environment using the OS-CFAR detector and FA optimization technique	OURFELLA Elbahdja
16.40-16.55	RFID Reader Antenna for UHF/SHF Applications	Amira Hamidi ; B. Mekimah ; A. Limam ; S. Bekkoucha ; A. Belhedri ; Mohammed Boulesbaa
 17.00-17.15 	Miniaturization of an RFID Tag Antenna for UHF Band Applications Use	Amira Hamidi ; B. Mekimah ; A. Limam ; S. Bekkoucha ; A. Belhedri ; Mohammed Boulesbaa

17.20-17.35

Control of Two-Level Grid-Connected Converters Using Fuzzy Logic Controller

Direct Power

M. M Zioud; A. Ouali; A. I Mehaouchi; F. Kadri; M. Bouzidi



ORAL+ ONLINE SESSION 06:

METRICS AND AMBIGUOUS DATA ANALYSIS

GOOGLE MEET JOINING INFO VIDEO CALL LINK: HTTPS://MEET.GOOGLE.COM/YGR-ZQOD-CAV



DEFENSE ROOM, FSNV FACULTY

KAMEL BENKADDOU- DR. YACINE KHALDI -

 	Prediction of Human Age and Gender from Facial Images Using Deep Learning Algorithms: Comparative Study	l I Marouane Dida I
16.20-16.35	Revisiting Deep Clustering: The Role of Fuzziness vs. Soft Assignments in Representation Learning	Chaima Derouiche; Khadra Bouanane; Oussama Aiadi; Mohammed Lamine Kherfi
16.40-16.55	Facial expression recognition system using LTP and GLTP descriptors	Chebah Ouafa ; Chebah Anissa
 17.00-17.15 	Rice Panicle Detection in Drone Images Using Object Detection Technique for Precision Agriculture	Meroua Belmir; Wafa Difallah
 17.20-17.35 	Enhancing Workplace Safety Compliance Using YOLOv8: Real-Time Detection of Safety Gear and Equipment	Chergui Abdelhakim

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AND CERTIFICATE AWARDING



