



# AIDaM'26



The 1st National Conference on Artificial Intelligence and Data Management (**AIDaM'26**), hosted by University Ahmed Zabana of Relizane, Algeria, will be held **online on April 20, 2026**.

Date: **April 20<sup>th</sup>, 2026**

Time: **08:30 AM - 14:05 PM**

Conference link: <https://meet.google.com/zcf-rpvp-ufr>

## General Information

- Each presentation will have a strict **10-minute** time limit, followed by **5 minutes** for Q&A.
- Parallel Sessions: **5 sessions at a time**.

## Program Schedule: Google Meet - <https://meet.google.com/zcf-rpvp-ufr>

- ❖ 08:30 - 09:00: **Opening Remarks**
- ❖ 09:00 - 09:45: **Keynote Lecture "A.I. for SDES driven by Non Gaussian processes", by Prof. Abdeldjebbar kandouci, University of Saida, Dr Moulay Tahar.**

## Presentations Sessions → 10:00 - 14:00

### ❖ Session 1: AI for Healthcare Applications

#### Room 1: Google Meet - <https://meet.google.com/dkt-gaaf-ijz>

1. "Machine Learning and Deep Learning Approaches for Medical Image Classification", Nadir Berrouane, Seyyid Ahmed Medjahed, Aicha BenelhadjDejelloul.
2. "Explainable Artificial Intelligence for Breast Cancer Diagnosis: A Comparative Review of SHAP, LIME, and Deep Learning Approache", Roufaida Larbi, Mourad Bouatouche, Abdelkader Benyettou.
3. "Fuzzy-Based Predictive Model for Type 2 Diabetes Diagnosis", Elmehdi Berber, Adda boualem, Nasreddine Abdeldjabbar, Zater Amar Argoub
4. "A Novel Hybrid Simulated Annealing-Narwhal Optimizer (SA-NO) for Gene Selection in High-Dimensional Biological Data", Seyyid Ahmed Medjahed, Oussama Derni.
5. "Deep Learning for Computer-Aided Diagnosis of Alzheimer's Disease Using MRI Scans", Meryem KETFI, Mebarka BELAHCENE, Salah BOURENNANE.
6. "Hybrid Multi-Scale Residual CNN-BiLSTM with lightweight attention for ECG Arrhythmia Classification", Saoueb Kerdoudi, Larbi Guezouli, Abdessalam Hattab.
7. "Recommender Systems for Medical Diagnosis State-of-the-art and Perspectives", Zohra Laaredj, Sahraoui KHAROUBI, Aissa BENSATALLAH.
8. "Efficient Skin Cancer Detection with MobileNet v4: A Deep Learning Approach", Linda Bellal, Mourad Kholkhal, Ridha Ilyas BENDJILLALI, Mohamed Sofiane Bendelhoum, Miloud Kamline.
9. "A Hybrid Machine Learning Framework for Diabetes Risk Prediction and Clinical Decision Support Using SMC and Voting Ensembles", keltoum larbi, Kharroubi sahraoui.
10. "ML-AEMS: A Machine Learning-Based Asthma Exacerbation Monitoring System", Salima Bella, Sofiane Amara.
11. "Efficient and Scalable Classification of Thyroid Carcinoma Subtypes Using Lightweight Transformer Models: EfficientFormer and DeiT-Tiny", Linda Bellal, Mourad Kholkhal, Ridha Ilyas Bendjillali, Mohamed Sofiane Bendelhoum.
12. "A Comparative Study of Deep Learning Models for Heart Disease Prediction", Mohamed Amine Benadda, Soumia Goumiri.

## ❖ Session 2: Data Security and Network Optimization Strategies

**Room 2: Google Meet - <https://meet.google.com/wpk-fonv-pjy>**

1. "Revisiting Optimizer Effects in Byzantine-Attacked Federated Recommendation", Djamilia Bouhata, Moumen Hamouma.
2. "Certificate management in Hyperledger Fabric-based IoT Systems", Chahrazad Adouane, Sonia Sabrina Bendib, Moumen Hamouma.
3. "Energy Aware Atomic Energy Optimization for Balanced Cluster Head Selection in WSNs", Fatima Harrouz, Mohammed Omari, Mohammed Kaddi.
4. "A survey on IoT security: threats, attacks, and countermeasures", Maroua Hadjer Bettahar, Ahmed Louzani, Larbi Sekhri.
5. "Deep Reinforcement Learning for Energy-Efficient STAR-RIS-Assisted UAV Networks: SCMA vs PD-NOMA", Benmeziane Imad-Ddine Ghomri, Aicha Meghraoui.
6. "A Route Lifetime-Aware Improved AODV Routing Protocol for MANETs", Oussama DERNI, Seyyid Ahmed Medjahed, Houaria Yettou, Chahinez Mekkidaouadji.
7. "Blockchain-based Clustering Approach for Wireless Sensors Network", Abdallah BELKADI, Abdelkrim BOUADJEMI, Ahmed Louazani.
8. "Analyse mathématique et implémentation pratique de la cryptographie à courbes elliptiques (ECC)", Abdelkader boudaoud.
9. "AI Optimization in WSN and IoT Energy Efficiency: A Comprehensive Review", Khalil Benhaya.
10. "Gouvernance des données personnelles par tokenisation et chiffrement homomorphe complet (FHE)", Youcef TAIEB KHERAFA, Abdelkrim BOUADJEMI.
11. "Skyline-NDN: A Multidimensional Replacement Policy Based on the Skyline Operator to Improve Caching in NDN Networks", Abdelkader ALEM, Sid Ahmed MOSTEFAOUI, Bendaoud MEBAREK.
12. "S-asymptotically  $\omega$ -periodic function and application", TADJINE Mohammed Reyad, Noredine Rezoug.

## ❖ Session 3: Intelligent Systems and Natural Language Processing

**Room 3: Google Meet - <https://meet.google.com/ndg-jbvj-zqk>**

1. "A Deep Reinforcement Learning-based Framework for Dynamic and QoS-Aware Web Service Composition", Tarek Amine Haddad.
2. "Federated Fine-Tuning of DziriBERT for Algerian Dialect Sentiment Analysis", Nasreddine Slimani, Mostefa Bendjima.
3. "Impact of Wrapper Evaluators on Bio-Inspired Feature Selection for Sentiment Analysis: A Comparative Study on IMDB and Sentiment140 Datasets", Mohamed GOISMI, Mohamed DEBBAB, Moustafa MAASKRI, Djamel SEGHIER.
4. "Comparative Convergence Behavior of GA and PSO in Wrapper Feature Selection for Large-Scale Sentiment Analysis", Moustafa MAASKRI, Djamel SEGHIER, Mohamed GOISMI, Mohamed DEBBAB.
5. "A Systematic Review of Sentiment and Emotion Datasets for Algerian Darija", Abdeldjalil Behnas, Oussama Derni, Seyyid Ahmed Medjahed.
6. "From TF-IDF to Transformers: Evaluating Representation Choice in Deep Sentiment Analysis Pipelines", Houari Benabid, Moustafa MAASKRI, Mohamed GOISMI, Djamel SEGHIER.
7. "XGBoost-Driven Mobility-Aware Routing for NDN-Based Vehicular Ad Hoc Networks", Djamel SEGHIER, Moustafa Maaskri, Mohamed Goismi, Mohamed Debbab.
8. "An AI-Driven Adaptive Traffic Light Management System for Smart Cities", Sofiane AMARA, Salima BELLA.
9. "Listwise Approach to Learning to Rank for Information Retrieval", Mohamed EL Amine BOUHADIBA, Gafour abdelkader.
10. "Hybrid LLM + Statistical Validation Framework for Automated Data Cleaning", Ouissem Touameur, Assala Nacef, Narimene Ayat.
11. "A HYPERSURFACE IN THE COTANGENT BUNDLE ENDOWED WITH A HORIZONTALLY DEFORMED SASAKI METRIC", FATIHA ZAGANE, ABDERRAHIM ZAGANE.
12. "Existence, uniqueness and Stability analysis Results for delay Fractional Evolution Equations with Maxima", Abdeldjebbar Fatima, Noredine Rezoug.

## ❖ Session 4: Machine Learning and Data Mining

**Room 4: Google Meet - <https://meet.google.com/xev-euam-rio>**

1. "LLM-ExplainIDS: A Framework for Generating Human-Readable Explanations in Network Intrusion Detection Systems", Mohamed Debbab, Mohamed Goismi, Moustafa Maaskri, Djamel Seghier, Abdelfetah Maatoug, Abdelkader Bendaoud.
2. "A New Optimization Framework Based on mRMR and the PUMA Optimizer for Hyperspectral Band Selection", Rahma Lama, Seyyid Ahmed Medjahed, Naima Beladam.



3.	“A Hybrid Ensemble Learning Approach for Student Dropout Prediction”, Bouchra AHMED AMEUR, Sofiane AMARA, Abdelkrim BOUADJEMI.
4.	“HYBRID Q-LEARNING AND PHYSICS-INFORMED NEURAL NETWORK FOR CONSTRAINED TRAJECTORY PLANNING OF NONHOLONOMIC MOBILE ROBOTS”, Mohamed Kenichi, Bendaoud Mebarek, Amine Daoud.
5.	“Classical Machine Learning vs Quantum Machine Learning for Smart Farming: A Comparative Review”, Yousra Touahra, Chirihane Gherbi, Habib Aissaoua.
6.	“A Hybrid Binary Harris Hawks Optimization Approach for Hyperspectral Image Classification”, Ikram Mankour, Seyyid Ahmed Medjahed.
7.	“Multi-Station Daily Maximum Temperature Forecasting Using Boosting Models and Feature Set Comparison”, Ikrame Boubaker, Rachid Seghir, Zakaria Laboudi.
8.	“Road Damage Detection Using YOLOv8: A Deep Learning Approach with Multi-Source Datasets”, Nassima Bousahba, Mohamed Abdelmadjid ALLALI, Sami Ramzi HAMERI, Khalil MEZIANE, Rachid BECHAR.
9.	“A Modular Hybrid Recommendation Architecture with Dynamic Pedagogical Constraints for E-Learning Systems”, Khadidja Bekki, Boudjemaa BOUDAA.
10.	“SEMANTICALLY CONSTRAINED CLOSED SEQUENTIAL PATTERN MINING FOR EXPLAINABLE DESERTIFICATION PATTERNS SUPPORTING SDG INDICATOR 15.3.1”, Ali CHERID, Nouredine Aribi.
11.	“Score-Level Fusion methods for Multi-Instance Biometric Recognition”, HANA NADIR.
12.	“A New Method for Finding the Zero of Maximal Monotone Operators in Hilbert Spaces”, Beddani Souaad, Beddani Abdallah.
13.	“Nonparametric relative error regression for functional ergodic data.” Abdelkader Bouadjemi

### ❖ Session 5: Intelligent Electrical Systems

**Room 5: Google Meet - <https://meet.google.com/tto-zini-juw>**

1.	“Machine Learning-Based Prediction of Common-Mode Voltage in Synchronous Power Converters Using IGBT and MOSFET Technologies”, Mohammed ELamine Lahlaci, Mohamed Miloudi, Houcine Miloudi, Mohamed Mankour, Abdelkader Gourbi, Mohammed Hamza Bermaki.
2.	“Improved Inverse Droop Control Method For Accurate Power Sharing In Islanded Microgrid”, Achraf SAUDI, Abdelkader TEFFAHI , Ali CHEBABHI, Souleyman BENKRAOUDA, Djillali HAMRI, Abdelkader MOSTEFA.
3.	“Application of artificial intelligence in voltage control of distribution networks”, Mhammed Benali BENADJEMIA, Abdelhadi NAMOUNE, Nessim Abderrahim BOURAHLA.
4.	“Enhanced Frequency Regulation of DFIG Wind Turbines Under Multiple Grid Disturbances”, Anwar GUESSABI, Ahmed GHERBI , Ali CHEBABHI, Mohamed Seif El Islam LALEM.
5.	“An Intelligent Cyber-Physical Supervisory Framework for Industrial Systems Based on Networked PLCs”, Bilal BENARABI, Mokhtar KHENFER, Mohammed Said ACHBI, Boubakeur ROUABAH, mohammed chaker BOUTALBI.
6.	“Smart Assistive Wheelchair System Based on Embedded Intelligence and IoT”, Khaled Benkouider, Anis Abderrahmane Belabed, Mohamed Aissoub, Seddik Badlis.
7.	“Design of chaotic digital filters via instability-based coefficient generation for image encryption”, Zineb Bouchra Madouri, Sarra Rouabhi, Racha Ikram Hakiki, Adda Ali Pacha.
8.	“Discrimination between broken rotor bars and load torque oscillation in induction motors using self-organizing maps”, Abdelhamid Mabrouk.
9.	“Lightweight Machine Learning for Anomaly Detection in Smart Meter Time-Series: A Comparative Study of Classical Models”, Sarra Araar, Brahim Farou, Zineddine Kouahla, Hamid Seridi.
10.	“Lightweight Local Energy Exchange in Smart Microgrids via Priority-Based Pairing and Resistance-Weighted Routing”, Assala Nacef, Lina Benchikh, Ouissem Touameur, Djamilia Mechta.
11.	“A New Distance-Constrained k-Degree Centrality Measure”, Amira Bouhraoua, Mohammed Amin Tahraoui.
12.	“Computational treatment of solutions and stability analysis for time-fractional (2+1)-dimensional KdV4 Equation”, Mohamed Amine Benostmane, Medjahed Djilali, Soumia Tayebi.

❖ 14:00 - 14:05: Closing Remarks and Thank You Note



Dr Abdallah Belkadi  
General chair of  
The AIDaM'26 Conference