



MIDE ²⁰²⁶

Medical Informatics & Dynamic Environments

Program of Online Presentations — June 22, 2026



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MIDE2026 — International Conference on Medical Informatics & Dynamic Environments

June 22, 2026 | Tipasa, Algeria | www.tipasasmartcity.org

Visioconference Program — Thematic Sessions

-----OPENING and WELCOME WORDS -----

Room A----- : <https://meet.google.com/jnz-qvsd-jks>

Session S1 : AI-Driven Medical Imaging, Detection and Segmentation

Chairman **DR. MUSTAPHA HATTI**

10 :00 – 11 :30 ; Algiers CET

122	Amira BENTSABET	CANet+: Attention-Guided Colorectal Polyp Segmentation with Multi-Scale Context Modeling
115	Amina ZAFER	Artificial Intelligence-Based Detection and Localisation of Breast Tumours Using Microwave Radar Imaging
113	Safia RASLAIN	Dynamic Cross-Scale Attention for Robust and Interpretable Intelligent Image Denoising
66	Rayhana ALOUACHE	Impact of CLAHE Preprocessing and Learning Rate Selection on Glaucoma Detection Using MobileNetV2 and ResNet18 Across Two Retinal Fundus Datasets
44	Selma MAMMERI	Improving Lung Cancer Detection Using CLAHE-Enhanced YOLOv8
19	Seyyid Ahmed MEDJAHED	An Artificial Intelligence-Driven CNN Framework for Brain Tumor Detection

Room B ----- : <https://meet.google.com/hiy-kmou-jet>

Session S2 : Deep Learning for Disease Prediction and Clinical Diagnosis

Chairman **DR. JIAZHAO SHI**

10 :00 – 11 :30 ; Algiers CET

129	Iamis MEGLAOUI	Integrating Multimodal AI for Advanced Oral Cancer Diagnosis
100	Mohamed LARBI	DiabetesNet: An Interpretable Deep Neural Network Framework for Risk Prediction and Personalized Health Recommendations
90	Djoher Dalila GRABA	Bio-Inspired Hybrid Deep Learning for Early Detection of Chronic Diseases: A State-of-the-Art Review and Conceptual TCN-LSTM Framework
84	Asma CHEBLI	Towards Reliable Pneumonia Detection: Ensemble Calibration and Uncertainty
79	Abdelahamid ELASRI	An Efficient DCGAN Framework for Synthetic Pulmonary Image Generation, Dataset Augmentation and Class Balancing
54	Sabrina BENREDJEM	Ontology-Based Knowledge Representation for Parkinson's Disease Diagnosis



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Room C ----- : <https://meet.google.com/oad-hdwb-mhs>

Session S3 : Explainable, Interpretable and Trustworthy AI in Healthcare

Chairman **DR. MERZAK FERROUKHI**
10 :00 – 11 :30 ; Algiers CET

123	Halima AOULA	Explainable Customer Segmentation: Interpreting Deep Clustering with SHAP and LIME for Targeted Marketing Strategies
117	zohra LAAREDJ	Integrating Causal Graph Constraints into Graph Neural Networks for Reliable Clinical Recommendation Engines
116	yacine BOUDEBOUZ	PsyGraphRAG: A Graph-Grounded, Safety-Aware Retrieval-Augmented Framework for Mental-Health Question Answering
128	Mohammed Taha KHAMED	Meta-Path Enhanced Knowledge Graph Learning for Healthcare Recommendation
25	Faiçal HIMA	A Lattice-Based Neuro-Symbolic Framework for Explainable Biological Test Analysis
24	Abdelbasset HIMOURI	An Interpretable Health Monitoring Framework Based on Interval Type-2 Fuzzy Logic for Heart Disease Risk Prediction

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Session S4 : Machine Learning for Cardiovascular and Metabolic Risk

Chairman **PR. DALILA CHERIFI**
12 :00 – 13 :30 ; Algiers CET

22	Nadia HOGGAS	A Harris Hawks Optimization-Based Residual Neural Network for Enhanced Heart Disease Prediction
8	Yacine HACHI	Enhancing Short-Term Blood Glucose Prediction in Diabetes Using Combined Blood Glucose and Heart Rate Data
96	Amira BENTABOUCHE	Hybrid Spatio-Temporal Deep Learning Framework for COVID-19 Forecasting Using Human Mobility Data
11	Amal BOUMEDJOUT	Enhancing Demand Forecasting in Medical Inventory Management Using Hybrid TCN–LSTM–GRU Models: A Real-World Case Study
58	Karim BECHIRI	A CCM-Based Approach for Real-World Home Health Care Routing with Routing-Aware Capacity-Constrained Agglomerative Hierarchical Clustering
12	Fatima KABLI	AI-Driven Patient Diagnosis and Medication Recommendation Chatbot Using Advanced AI Models



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Session S5 : Control Systems and Closed-Loop Therapeutic Regulation

Chairman

PR. ANUP KAGALKAR

12 :00 – 13 :30; Algiers CET

137	Islam DAOUDI	Neural Network-Based Adaptive Controller for Fractional-Order Nonlinear Chaotic Systems under Prescribed Performance
55	Mohammed BENMILOUD	Flatness-Based Active Disturbance Rejection Control for Closed-Loop Glucose Regulation in Type 1 Diabetes: In Silico Validation on the UVa/Padova T1DMS
40	Hadjer ABDERREZAK	An Adaptive Closed-Loop Oxygen Therapy System for Automated SpO ₂ Regulation: Design and Simulation
136	Djamel Eddine TOURQUI	Smart IoT-Based Intensive Care Unit for Automated Insulin Delivery and Vital Sign Monitoring
130	Meriem BENENIA	Applications of Artificial Intelligence in Dynamic Systems
133	Rayene MEGHLOUI	AI-Driven Navigation for Magnetic Microrobots: From Critical Literature Review to a Navigability-Optimal Framework

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Session S6 : IoT, Edge and Service-Oriented Architectures for Connected Care

Chairman

DR. ABHISHEK VERMA

12 :00 – 13 :30; Algiers CET

112	Mohamed Achref BOUKHOBZA	A Lightweight RPL Routing Enhancement for Reliable Healthcare IoT Communications
38	Mohamed Raouf KANFOUD	A Hybrid Cloud–Edge Service-Oriented Design for Time-Critical Healthcare Workflows
77	Khaled BENKOUIDER	Smart Medicine Box Integrated with Medical Surveillance for Real-Time Patient Monitoring
134	El-Hadi KHOUMERI	A Data-Calibrated Digital Twin for Evaluating Patient-Flow Policies in Smart Emergency Departments
17	habiba HOUARI	Neural Network-Based Approach for Predictive Maintenance of Medical Equipment
85	Zahia TOUATI	Clinical Data Management and Statistical Analysis of Spontaneous Pneumothorax: A Retrospective Study



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Room A ----- : <https://meet.google.com/jnz-qvsd-jks>
Session S7 : Security, Privacy and Governance of Healthcare Data

Chairman **DR. SATYAM NIKHRA (USA)**
 16 :00 – 17 :30 ; Algiers CET

119	Youcef TAIEB KHERAFA	Towards Secure and Auditable Healthcare Data Access Governance
109	Zeyneb MOKEDDEM	Secure Cloud-Based Medical Data Sharing: A Survey
103	Abdelhamid Benhammou	A Systematic Review of Cloud-Based Storage Solutions for Healthcare
91	Khaled MERIT	Zero-Trust Architecture with Differential Privacy for Securing Electronic Health Records in Cloud-Connected Hospitals
88	Rachid RIMANI	Hénon Attractor-Based Dynamic Row Scrambling for Real-Time Healthcare Data Protection
81	Lamia CHOUCANE	Secure Medical Image Transmission in Smart Healthcare Systems Using a Fractional-Order Memristive Hyperchaotic System

Room B -----: <https://meet.google.com/hiy-kmou-jet>
Session S8 : Materials, Sensors and Biosensing for Smart Diagnostics

Chairman **PR. NAVNEET TYAGI**
 16 :00 – 17 :30; Algiers CET

140	Kadda Benmokhtar BENSASSI	Copper-Doped ZnO Thin Films for Enhanced Biomedical Gas Sensing Applications: Spectroscopic Investigation Before and After UHV Treatment
53	Khalissa BENDEMAGH	Design and Analysis of a Photonic Crystal-Based Electromedical Biosensor for Glucose Detection
56	Habiba HOUARI	Modeling and Optimization of Dip-Coating Parameters for Pharmaceutical Glove Manufacturing: A Metaheuristic Approach
142	Kadda Benmokhtar BENSASSI	Artificial Intelligence-Assisted Molecular Informatics and Predictive Computational Analysis of a Novel Quinoline-Based Hydrazone for Intelligent Healthcare Applications
32	Sonia BAAZIZ	Predictive Modeling of Natural Bioactive Compounds Using DFT for Smart Healthcare Systems
14	NACIRA BOUZAR	Global Research Patterns in Artificial Intelligence for Nanotechnology in Environment: A Bibliometric Perspective

Room C ----- : <https://meet.google.com/oad-hdwb-mhs>
Session S9 : Assistive Signal Processing and Digital Clinical Practice

Chairman **DR. GAURAV PATHAK**
 16 :00 – 17 :30; Algiers CET

135	Soumeya BELABBAS	Hybrid Attention-Based Models for Optimal Dysarthric Speech Recognition and Intelligibility Classification
68	Sabrina LEGHMIZI	A Reproducible EMD-Based Reference Standard for Binary Voice Disorder Classification
131	Takoua SOUALHIA	Digitization of the Chemotherapy Workflow in Algeria: Current Status, Barriers, and Readiness for AI Integration
82	Manel MANSOURI	Persisting Infection Control Gaps in Dentistry: A Cross-Sectional Study on Hepatitis B and C in Khenchela, Algeria – Implications for Dynamic Healthcare Environments

