



The Third National Conference on Applications of Artificial Intelligence (A2I-26)

April 15-16, 2026

Program



Day 01 : April, 15

Time	Activity	Place
08:00-09:00	Reception and Registration	Hall
09:00-09:40	Opening Ceremony	Conference Room
10:00-10:45	<b>Keynote Speaker 01:</b> Pr. Okba KAZAR - Full Professor in AI at the University of Kalba, Sharjah, UAE, 500+ publications, LINFI lab founder. Title : Artificial Emotion	
10:45-11:15	Coffee Break & Poster Session. Papers Ids: #75, #25, #37, #33, #81, #42, #84 Chairs: Pr Y. MERAIHI & Pr H. AKROUM	Room 1
11:15-12:00	<b>Keynote Speaker 02:</b> Dr. Younes KHADRAOUI - Co-founder of Namla, a startup «Edge AI at Scale» based in Paris. Title: The Memento Problem: Why AI Agents Can't Remember, and Why It Matters	Conference Room
12:00-13:30	Lunch	

Afternoon Parallel Sessions

Session A - AI for Biomedical Analysis and Clinical Decision Systems		Chairs : Pr M. BOULIF / Dr A. CHAOUCHÉ	Room 1
14:00-14:15	#58 On the Interaction of Domain and Language Shifts in Medical Vision-Language Models / (Ayoub Louaye BOUAZIZ)		
14:15-14:30	#90 An End-to-End Approach for SNV Pathogenicity Prediction via Progressive Fine-Tuning of Nucleotide Transformer-v2 / (Benhenni OUAHABI)		
14:30-14:45	#23 A Multi-Scale Residual InceptionTime with Class-Balanced Fine-Tuning for ECG Heartbeat Classification / (Saoueb KERDOUDI)		
14:45-15:00	#9 Artificial Intelligence-Driven Biomedical Diagnostic Systems: Advances, Challenges, and Clinical Impact / (Abdellatif BOUZID-DAHO)		
Session B - Intelligent Medical Imaging Systems		Chairs : Pr D. GACEB / Dr C. SALMI / Dr R. LOUNAS	
15:00-15:15	#43 Advancing Retinal Vessel Segmentation: A Comparative Study of U-Net Variants and FR-UNet / (Mohamed El Fares SLIMANI)		
15:15-15:30	#73 Self-Supervised Learning for Medical Image Analysis: A Comparative Review of Contrastive, Generative, and Distillation Paradigms / (Faiza BELLA)		
15:30-15:45	#68 Clinical Translation Readiness of Hybrid Quantum-Classical Networks for Cancer Image Classification: A Critical Assessment / (Kaouther BAHLOUL)		
15:45-16:00	#61 MVFCL: A Semantic AI Framework for Interpretable Pattern Mining in Healthcare Data / (Fatima Zohra KADARI)		
Session A - Cybersecurity, Privacy and Threat Detection in Intelligent Systems		Chairs : Pr Y. MERAIHI / Pr H. AKROUM	Room 2
14:00-14:15	#18 Topology-Aware Cyberattack Detection in Smart Grids Using Explainable Graph Neural Networks / (Sarra ARAAR)		
14:15-14:30	#52 Privacy-preserving and threat detection in IoMT via Federated Learning: A comprehensive study / (Nour El Yakine GUERRAS)		
14:30-14:45	#87 Robust Cross-Domain Detection of Multi-Class MITM Attacks in Smart-Grid Modbus Traffic / (Hicham ANIBA)		
14:45-15:00	#97 From Classical ML to LLMs: Android Malware Detection Survey / (Abdelkader BOUAZIZ)		



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Session B - AI for Social Safety: Fraud, Misinformation & Crime Pattern Detection			Chairs : Dr. S. HAMADOUCHE / Dr W. TOUZOUT	Room 2
15:00-15:15	#93	A Hybrid Ensemble Framework for CCFD: Integrating XAI and Multi-Level Interpretability / <b>(Abdelhak OUCHENE)</b>		
15:15-15:30	#39	A Comparative Study of Machine learning, Deep Learning, and Transformer Models for Fake News Detection using ISOT and AFND Datasets / <b>(Amina MZAAD)</b>		
15:30-15:45	#8	Monthly Stable Periodic-Frequent Crime Hotspots with Gradual Periodicity / <b>(Ilyes HAMIMID)</b>		
Session A - AI for Energy Systems, Agricultural and Industry			Chairs : Dr R. DJERBI / Dr. B. ILYES & Dr F. TOUAZI	Room 3
14:00-14:15	#20	Hybrid Intelligent Optimization of Energy Consumption in Cement Manufacturing Using Machine Learning and RSM Comparative Analysis / <b>(Salima DADOU)</b>		
14:15-14:30	#71	Intelligent Management of Reliability-Driven Preventive Maintenance for Sustainable Power Generation / <b>(Soufiane BELAGOUNE)</b>		
14:30-14:45	#76	AI Driven Precision Farming for Sustainable and Inclusive Agriculture / <b>(Mohammed Abdeldjalil DIEHAF)</b>		
14:45-15:00	#31	Hybrid Deep Learning and Meta-Model Validation for Physically Consistent Bond Graph Component Recognition / <b>(Ikram RALEM)</b>		
Session B - AI-Driven Optimization			Chairs : Pr M. MEZGHICHE / Dr W. BOUKELLOUZ	Room 4 (Conference Room)
15:00-15:15	#36	Improving Swarm Exploration using Ant Colony Optimization with Local Pheromone Reduction / <b>(Nabila RAHMOUNE)</b>		
15:15-15:30	#45	Towards Automated Deep Learning Architectures / <b>(Racha Ikram HAKIKI)</b>		
15:30-15:45	#94	EQ-OLSR: An Energy-Aware Q-Learning Enhanced OLSR Routing Protocol for Flying Ad Hoc Networks / <b>(Safa FERRAH)</b>		
15:45-16:00	#16	Performance Comparison of Classical and Neural Sampling Algorithms for Robotic Navigation / <b>(Hichem CHERIET)</b>		
Session A - AI for Complex Systems: Graph Analysis & Intelligent Clustering			Chairs : Pr A. BERRICHI / Dr A. BOUSTIL	
14:00-14:15	#60	Performance Comparison of Classical Community Detection Algorithms in Complex Networks / <b>(Toufik CHERRANI)</b>		
14:15-14:30	#86	On a Five-Dimensional Lorenz-Type Dynamical System with Feedback: Stability, Dissipativity, and Chaotic Dynamics / <b>(Nadir BENSAKER)</b>		
14:30-14:45	#32	A Comparative Study of Clustering Methods for Speaker Diarization Using Neural Speaker Embeddings / <b>(Meriem HAMOUDA)</b>		
Session B - Mixed Session: Multidisciplinary AI Research			Chairs : Dr K. DJOUZI / Dr H. MOKRANI.	
14:45-15:00	#98	Analysis of Symptomatic Ambiguities in Automatic Plant Disease Classification: Implications for Training Dataset Quality / <b>(Nawel GHRIEB)</b>		
15:00-15:15	#38	Explainable Machine Learning for IoT Intrusion Detection: Interpretable DoS and DDoS Detection Using the CICIoT2023 Dataset / <b>(Rahma BERCHI)</b>		
15:15-15:30	#46	A Hybrid Image Steganography Using Huffman Encoding and LSB Method / <b>(Mohammed Abdessamad GOUMIDI)</b>		
15:30-15:45	#65	Deep Learning-Based Prediction of Lithium-Ion Battery Cycle Life for Sustainable Energy Systems / <b>(Youcef Islam DJILANI KOBIBI)</b>		
Distribution of Certificates				
Best Paper and Presentation Award Announcement				
Closing of the Event				