

Laboratory of Informatics and Its

Applications of M'sila (LIAM)

Ministry Of Higher Education and Scientific Research

People's Democratic Republic of Algeria





University Mohamed Boudiaf M'sila



2nd International Workshop on Machine Learning and Deep Learning (WMLDL 2025)

Artificial Intelligence House of M'sila

Program of WMLDL 2025, November 25, 2025

08:00	- 09:00		Regist	ration			At Ibn El Haytham Auditorium	
09:00	- 09:45		Opening C	Ceremony			At Ibn El Haytham Auditorium	
09:45	- 10:45		Keynote : Artificial Intelligence By : Pr. Aïssa Boulmerka (National School of A Chair : Pr. Samir Akhrouf (U	Artificial Intelligence (ENSIA) in Algiers, Algeria) University of M'sila, Algeria) Break Frontiers in Machine Learning amad Bin Khalifa University, Qatar)		At Ibn El Haytham Auditorium At Ibn El Haytham Auditorium At Ibn El Haytham Auditorium		
10:45	- 11:15		Coffee					
11:15	- 12:15		Keynote : Fundamentals and F By : Pr. Samir Brahim Belhaouari (Ha Chair : Pr. Bilal Atallah (Un					
		Session 1: ML&DL Applications: Drug Discovery, Education Chairs: Pr. Farid Nouioua (Univ. El-Bachir El-Ibrahimi BBA) & Dr. Brik Youcef (Univ. Mohamed Boudiaf M'sila) Room: Conference Room, 1st floor (Incubator Center)			2: Machine Learning Algorithms, Models, and Systems Pr. Aissa Boulmerka (ENSIA, Algiers) & Pr. Bourahla Mustapha (Univ. Mohamed Boudiaf M'sila) Expo Room, 1st floor (Incubator Center)	Session 3: ML&DL Applications: Behavioral Analysis Chairs: Dr. Mahmoud Brahimi (Univ. Mohamed Boudiaf M'sila) & Dr. Ahcene Abed (Univ. M'sila) Room: CATI Room, 1st floor (Incubator Center)		
3	- 12:45	13	Machine Learning for Drug Discovery: A Case Study on Classifying Ligand Activity for the 5-HT₂C Receptor Elmir Hassen*; Ghazli Abdelkader; Boubchir Larbi; Daoudi Abdelaziz	38	Semi-Supervised Medical Image Segmentation with Foundation Models: Recent Advances, Benchmarks, Challenges, and Perspectives Mammeri Samir*; Brahimi Belgacem	15	Facial Emotion Recognition Using Deep Learning Approach Kadi Douaa*; Heltali Nada Erayhane; Agoune Rania; Gadri Said	
12:45	- 13:00	11	Behavior-Aware Learning Style Classification Using Multilayer Neural Architectures Hamza Lamia*		A Graph-Based Hybrid Clustering Approach for Detecting Complex Structures in Synthetic Data Nassira Lograda*	27	Self-Supervised Transfer Learning for Arabizi Sentiment Analysis Ouchene Lamia*; Bessou Sadik	
13:00	- 13:15	21	Deep Learning Architectures for Predictive Drug Screening: Advances in Neural Networks and Al- Driven Drug Discovery REZAZI Sarah*	39	A Systematic Review of Quantum Machine Learning: Taxonomy, Tools, and Future Horizon Bouras Wafa*	30	Multimodal Fusion and Artificial Intelligence for Personality Trait Assessment in Recruitment Processes: Application to Sensitive Environments Rofia Belakroum*	

	13:15 - 14.00				Lunch		
		Chairs: Pr. Lamri Sayad (Univ. Mohamed Boudiaf M'sila) & Dr. Abdelhafid Benyounes (Univ. Mohamed Boudiaf M'sila)		Session 5:ML&DL Applications: Speech Recognition, NLP Chairs: Pr. Hichem Debbi (Univ. Mohamed Boudiaf M'sila) & Dr. Mounir Bouras (Univ. Mohamed Boudiaf M'sila) Room: Expo Room, 1st floor (Incubator Center)		Session 6:ML&DL Applications: Detection Systems Chairs: Pr. Allaoua Hemmak (Univ. Mohamed Boudiaf M'sila) & Dr. Salah Khennouf (Univ. Mohamed Boudiaf M'sila) Room: CATI Room, 1st floor (Incubator Center)	
Tuesday 25 November 2025	14:00 - 14:15	22	Explainable AI for Heart Failure Diagnosis Using ECG and PPG: A Review of Methods, Challenges and Clinical Assurance	12	Automatic Speech Recognition for the Amazigh Language Using Whisper	37	Recent Advances in Fire Detection and Localization using AI and IoT: A Survey (2021–2025)
			Mohammedi Amira*; Tahar Mehenni		Zaidi Ali*; Azi Mourad; Matoub Saida; Idir Lamine		Ammiche Sarah*; Gadri Said
	14:15 - 14:30	24	A Survey on Generative Models for RNA Design	16	Speech Emotion Recognition Using Deep Learning Models	36	WakeUp AI – Fatigue Detection System
			Benaiche Abla*; Gadri Said		Agoune Rania*; Nada Eryahane Heltali; Douaa Kadi; Gadri Said		Fayek Maarfi*; Youcef Brik; Bilal Attallah
	14:30 - 15:00	26	Deep Learning and Explainable AI for Plant Disease Detection: A Comprehensive Survey	28	Creation of a Dataset and Development of a Speech Recognition System for the Amazigh Language (Kabyle)		Cross-Dataset Evaluation of Feature-Based and Deep Learning Models for Crowd Anomaly Detection
			Lantri Nour El Houda*; Chefrour Aida; Namoun Abdallah		Azi Mourad*		Nesrine Rachedi*; Heraguemi Kamel Eddine; Senoussaoui Ikram; Azib Toufik
	15:00 - 15:15	33	A Hybrid ResNet50-PCA-SVM Model for Accurate Palmprint Recognition	34	Dynamic spammer detection using deep learning with temporal graph embeddings		
			Bedjekina Kheira Fairouz*; Attallah Bilal; Brik Youcef; Maarfi Fayek		Hemza Loucif*, Samir Akhrouf		
	15:15 - 16:00				Closing ceremony + Best Paper Award		