



University Mohamed Khider of Biskra  
 Faculty of Exact Sciences, Natural and Life  
 Sciences  
 Computer Science Department  
 In collaboration with  
 LESIA Laboratory



## 1<sup>st</sup> workshop on Advances in Deep Learning for Image and Immersive Technologies (ADL2IT)

10 - 12 October 2023 Biskra, Algeria

### Final Program

(Location: Visio conference room Computer science department)

1 <sup>st</sup> Day - 10 october 2023		
09:30 - 10:00	<b>Opening ceremony</b>	
10:00 - 11:00	1st invited speaker: <a href="#">Generative Models: A Deep Dive into Deep Learning</a> <b>Prof. Moussaoui Abdelouahab. Sétif 1 University</b>	
11:00 - 11:30	<b>Coffee break</b>	
11:30 - 11:50	Parallelized Sequential Minimal Optimization for Enhanced Support Vector Clustering Efficiency	Drid Aboubakr Seddik & Djeflal Abdelhamid
11:50 - 12:10	<a href="#">A paradigm shift toward intelligent packet routing for mobile IoT networks using deep learning</a>	Larouci Nour El Houda & Djeflal Abdelhamid
12:10 - 12:30	<a href="#">Deep Learning-Based Vehicle-to-Everything Communication for Beyond 5G Millimeter-Wave Vehicular Networks.</a>	Benelmir Rima & Bitam Salim
12:30 - 14:30	<b>Lunch break</b>	
14:30 - 15:30	2nd invited speaker: <a href="#">Le Metaverse et Les Technologies Immersives. Concepts, Approches, Challenges et Impacts Socio-Économique.</a> <b>Prof. Gherbi Rachid. Paris Saclay University</b>	
15:30 - 16:00	<b>Coffee break</b>	
16:00 - 16:15	<a href="#">Human-Robot interaction using Brain Computer Interface Based on EEG signals</a>	Nejia Boutarfaia & Tibermacine Ahmed
16:15 - 16:30	<a href="#">Brain computer interface integration: advancing speech recognition and human-computer interaction</a>	Nada Boumerzouf & Tibermacine Ahmed
16:30 - 16:50	<a href="#">Enhancing Robot Navigation in Crowded Environments with Deep Reinforcement Learning</a>	Ouamane Fatma Zohra & Cherif Foudil
16:50 - 17:10	<a href="#">Medical image steganography</a>	Saidi Hadjer & Tibermacine Okba

2nd Day – 11 october 2023		
08:30 – 09:30	3rd invited speaker: <u>L'informatique graphique : quand le virtuel rejoint la réalité.</u> <b>Prof. Kadi Bouatouch. Rennes 1 University</b>	
09:30 – 09:50	<u>Using Deep Learning-based Hand Pose Estimation for handling occlusion</u>	Bekiri Roumaissa & Babahenini Mohamed Chaouki
09:50 – 10:10	<u>Comparative Analysis of Pre-trained Convolutional Neural Networks and Optimizers for Artistic Style Classification</u>	Menai Baya Lina & Babahenini Mohamed Chaouki
10:10 – 10:40	<b>Coffee break</b>	
10:40 – 11:00	<u>Study of Haptic Feedback Impact on Learning Basic Surgical Technical Gestures</u>	Cherif Intissar & Chellali Amine & Otmane Samir & Babahenini Mohamed Chaouki
11:00 – 11:20	<u>Automating Date Fruit Sorting: A Multi-Modal Fusion and Deep Learning Approach</u>	Boumaaraf Ibtissam & Djefal Abdelhamid
11:20 – 11:40	<u>Deep learning application for document forgery detection</u>	Benhamza Hiba & Djefal Abdelhamid
11:40 – 12:00	<u>Random Pixel Selection through Image Cropping for Data Augmentation and Classification</u>	Boudouh Nouara & Mokhtari Bilal
12:00 – 12:15	<u>Deep learning for neurological disorders prediction</u>	Djelikh Soumia & Saouli Rachida
12:00 – 14:30	<b>Lunch break</b>	
14:30 – 15:30	4th invited speaker: <u>Neural rendering from generative models to diffusion models</u> <b>Dr. Abbas Fayçal. Khenchela University</b>	
15:30 – 16:00	<b>Coffee break</b>	
16:00 – 16:15	<u>Treating phobias using virtual reality techniques</u>	Toukali Sabar & Cherif Foudil
16:15 – 16:30	<u>Generative Adversarial Networks &amp; Neural Rendering, is traditional rendering becoming obsolete</u>	Bacha Yassine & Babahenini Mohamed Chaouki
16:30 – 16:45	<u>Leveraging Blockchain Technology for Enhanced Security and Trust in the Internet of Things</u>	Benboudina Lakhdar & Belouaar Hocine
16:45 – 17:00	<u>Smart approach for medical diagnostic</u>	Bennadji Ziad & Terrissa Sadek Labib
3rd Day – 12 october 2023		
08:30 – 09:30	Virtual reality workshop (startup) <b>Pr Haffid Haffaf – Université Oran 1</b> <b>Rafik Drissi. Startup Digi-Roots XR</b>	
09:30 – 09:50	<u>Enhancing Adversarial Examples Diversity through Population-Based Adversarial Training</u>	Benchaira Djawhara & Cherif Foudil
09:50 – 10:10	<u>New method for microscopy image segmentation using " Multi Scale Line Detection "</u>	Haddar Fella & Djerou Leila
10:10 – 10:40	<b>Coffee break</b>	
10:40 – 12:00	<b>Round table with doctoral and master students about Deep Learning for Image and Immersive Technologies</b>	
12:20 – 14:30	<b>Lunch break</b>	
14:30 – 17:00	<b>Social event</b>	