

## Organizing Committee

Pr AMINE Abdelmalek  
Pr KECHAR Bouabdellah  
Pr ABDI Mustapha Kamel  
Pr SEKHRI Larbi  
Pr GHOMARI Abdelghani  
Pr BOURENANE Malika  
Dr BIDAI Zahia  
Dr TRACHE Nadjia  
Dr BOUSMAHA Kheira Zineb  
Dr. MAMI Mohamed Amine  
Dr DAHANE Amine  
Dr BENZERBADJ Ali  
Dr BENGUEDDACH Asmaa

## Steering Committee

Pr AMINE Abdelmalek  
Pr KECHAR Bouabdellah  
Pr ABDI Mustapha Kamel  
Pr HAFFAF Hafid  
Pr KHELFI Mohamed Fayçal  
Pr GHOMARI Abdelghani  
Pr BOURENANE Malika  
Pr SEKHRI Larbi  
Dr BIDAI Zahia  
Dr BOUSMAHA Kheira Zineb  
Dr TRACHE Nadjia  
Dr MAMI Mohamed Amine

For more information on the Study Days on new AI technologies and their societal and industrial applications, participants can refer to the event's website:

<https://labo-riir.com/index.php/event/>

## Contact

Email : [bkechar2000@yahoo.fr](mailto:bkechar2000@yahoo.fr)  
Website of the RIIR Laboratory: <https://labo-riir.com>



**Location of the event:**  
**Talahit Auditorium - Taleb Salim Mourad Campus**

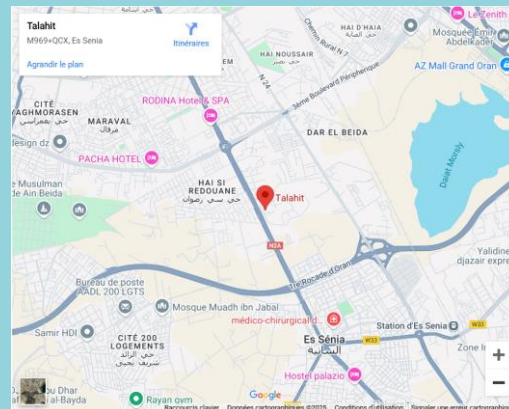
## Objectives

Enable our teachers, PhD and Master students to:

- ✓ Learn from constantly updated experts about new technologies and innovations in Artificial Intelligence (AI).
- ✓ Participate in a practical training session with the most popular Artificial Intelligence tools.
- ✓ Familiarize yourself with the functionalities and strengths of AI and learn how to integrate them effectively into our educational and scientific research missions.
- ✓ Understand the advanced topics of AI/ML/DL.
- ✓ Apply case studies through focused workshops.
- ✓ Accelerate the deployment of AI in our research laboratory.
- ✓ The pedagogical aim of this event is to give our students a capacity for reflection and a critical sense on the subject of Artificial Intelligence; while enabling them to understand the impact they will have in terms of responsibilities as future Masters / engineers in the field of AI and Machine Learning.

## List of Workshop participants

- OUR TEACHERS
  - OUR DOCTRANTS
  - OUR MASTER STUDENTS
  - OTHERS
- MAX NUMBER = 50 (TO BE ANNOUNCED SOON)



**Second Edition of the Study Days on Advances in AI and its Societal and Industrial Applications, will be held on January 29th and 30th, 2025 at Oran 1 University**

**ORGANIZED BY**

**Laboratoire de Recherche en Informatique Industrielle et Réseaux (RIIR)**





**PR MOUSSAOUI ABDELOUAHAB**

Full Professor  
University of Setif (Algeria)



**DR BELKACEM SAMI**

Assistant Professor of Computer Science National Higher School,  
ENSIA – Algiers

Certified professional training by Huawei entitled “HCIP- Artificial Intelligence-EI  
Developer”

[SamBelkacem.github.io](https://github.com/SamBelkacem)



**DR BRAHIMI MOHAMED**

Assistant Professor of Computer Science National Higher School,  
ENSIA – Algiers

## Program

### Proposed topics for this second edition:

1. Self-Supervised Learning and Contrastive Learning
2. Deep Learning Advancements (Generative IA, Explainable IA)
3. Foundations of Efficient Machine Learning
4. Learning from Scarce and limited Data
5. Evolution of Generative Models
6. Machine Learning Basics (Workshop)
7. Fundamentals of Deep Learning (Workshop)
- 8.

### Learning Objectives

By participating in this workshop, you'll:

- Learn the fundamental techniques and tools required to train a deep learning model
- Gain experience with common deep learning data types and model architectures
- Enhance datasets through data augmentation to improve model accuracy
- Leverage transfer learning between models to achieve efficient results with less data and computation
- Build confidence to take on your own project with a modern deep learning framework

## Day 2: Thursday, January 30, 2025

### Morning

**08h30 – 12h00**

Workshop “**Deep Learning Fundamentals – Part 1**”, Speaker: Dr. Mohamed Brahim  
in Library of the faculty FSEA

### Afternoon

**13h00 – 17h30**

Workshop “**Deep Learning Fundamentals – Part 2**”, Speaker: Dr. Mohamed Brahim  
in Library of the faculty FSEA

## Program

Day 1: Wednesday, January 29, 2025

Day 1

### Morning

**08h30 - 09h00:** *Welcoming participants*

**09h00 – 09h30:** Opening speech and presentation of the program

**09h30 – 10h30:** Plenary lecture (Auditorium)

Title:” **Generative Models: From Boltzmann Machines to Diffusion Models and Their Emerging Applications in AI** “

Speaker: Pr Abdelouahab MOUSSAOUI

**10h30 – 11h00:** Coffee break

**11h00 – 12h00:** Plenary lecture (Auditorium)

Title: “**Self-Supervised Learning and Contrastive Learning: Leveraging Unlabeled Data for Robust Feature Learning**”

Speaker: Pr Abdelouahab MOUSSAOUI

**12h00 – 12h30:** Discussions

**12H30 – 14h00:** Lunch

### Afternoon

**14h00 – 17h30**

Workshop “**Machine Learning Fundamentals**”,  
Speaker: Dr. Belkacem Sami,  
in Library of the faculty FSEA

Day 2