



CONTRIBUTION OF ARTIFICIAL INTELLIGENCE TO ECO-DESIGN AND ENERGY TRANSITION IN ALGERIA

BLIDA, DECEMBER 1 & 2, 2025



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CONTEXT AND OBJECTIVES

In response to the growing challenges of climate change, energy transition, decarbonization, and industrial sustainability, the integration of Artificial Intelligence (AI) in eco-design processes represents a strategic lever for the circular economy. Algeria, committed to transitioning toward sustainable and innovative models, benefits from promoting synergies between advanced digital technologies and key industries such as energy, agri-food, chemistry, materials, and environment.

The seminar "Contribution of Artificial Intelligence to Eco-Design and Energy Transition in Algeria" aims to be a space for dialogue and scientific outreach, bringing together researchers, industrialists, startups, and institutional stakeholders. It seeks, through a multidisciplinary approach, to explore how AI can support a greener, more resilient, and more competitive Algerian economy.



SEMINAR THEMES



1. Carbon Footprint, Energy Security and Green Hydrogen



- Carbon footprint of energy processes in Algerian industry;
- Eco-design of energy systems;
- Energy transition, security and efficiency, sustainability and profitability;
- Artificial intelligence applied to sustainability and energy transition.



2. Eco-design in the Agri-food Industry and Food Security



- Eco-design of agro-industrial processes and eco-innovation in food production;
- Life cycle analysis (LCA) in the agri-food sector;
- Eco-design of food packaging supported by artificial intelligence;
- AI in the management of sustainable agri-food chains: agriculture, processing, packaging, logistics, and consumption



3. Water Footprint and Sustainable Water Resources Management



- Impact of climate change on water resources in Algeria
- Eco-design and AI to reduce the water footprint
- Innovative and intelligent processes for water management and the valorization of non-conventional resources.
- Eco-friendly processes for water treatment, recycling, and reuse in industry.



4. Artificial Intelligence Environment and Public Health



- AI applied to risk management and monitoring of air, soil and food safety;
- Biocompatible materials and green disinfectants
- Healthcare waste management....



5. Green Startups in Algeria



Scientific Committee Chair

Dr. OUDIR Malha

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IMPORTANT DATES



- **Call for papers launch:** October 25, 2025
- **Abstract submission deadline:** November 16, 2025
- **Notification of acceptance:** November 23, 2025
- **Final program publication :** November 27, 2025
- **Seminar dates:** December 1 & 2, 2025

AUTHOR INSTRUCTIONS

- Abstracts must not exceed **300 words**.
- Use **Times New Roman** font:
- • **14 pt bold** for the title
- • **12 pt** for the abstract text.
- Accepted languages: **English, French, or Arabic**.
- Abstracts must be submitted in **PDF format only**.
- Submission must be done **exclusively** through the Google Forms link (or scanning the QR code) :
<https://forms.gle/s7JoGjbHppvg997C8>
- Use the **official seminar abstract template**, downloadable **by scanning the QR code**.



PARTICIPATION FEES

Students: 3,000 DA
Researchers/Faculty: 5,000 DA
Professional: 8,000 DA



The registration fees cover access to all seminar sessions, a participant folder, as well as lunch and coffee breaks. (Accommodation not included)

CONTACT

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SEMINAR LANGUAGE: ARABIC, ENGLISH, FRENCH.