

IDEAS'2025 Conference Program 2025

11-12 june 2025

Day 1: Wednesday, June 11, 2025

8:00 – 9:00 AM **Registration - Auditorium**

Participant check-in and distribution of badges and materials.

9:00 – 9:30 AM **Opening Ceremony**

Welcome speech by the Conference Chair.

Address by the Rector of USTO-MB.

Introduction to conference themes and objectives.

9:30 – 10:15 AM **Keynote 1 – Prof. Chaker Larabi**

“Enhancement and Evaluation of Visual Content in the Era of AI”

10:15 – 10:45 AM **Poster Session, Coffee Break & Networking**

10:45 – 11:30 AM **Session 1: Big Data & Advanced Analytics**

Chairs: Dr. Houda El Bouhissi & Prof. Yedjour Dounia

- Heterogeneous Graph Neural Networks for Product Recommendation on Transactional Retail Data
Imad Khiloun, Karima Belmabrouk, Latifa Dekhici (USTO MB)
- Comparative Analysis of Mortality Prediction Models at the University Hospital Center of Oran, Algeria
Mohammed Nadjib Osmani, Djamila Benhaddouche, Nawal Sad Houari (USTO-MB)

11:30 – 12:15 PM **Keynote 2 – Dr. Zoubir Ouaret**

“The Future of IT Governance: Leveraging AI for Next-Generation Enterprise Architecture”

12:15 – 1:30 PM **Lunch Break**

2:30 – 3:15 PM **Keynote 3 – Prof. Yassine Hadjaj Aouel**

(Defense room, 3rd floor, Computer Science Department)

“Graph Intelligence and Data Engineering for the Future of AI-Driven Networks”

3:15 – 4:00 PM **Session 2: Artificial Intelligence and Machine Learning**

(Defense room, 4th floor, Computer Science Department)

Chair: Pr Hafid Haffaf and Dr Hayat Yedjour

- An Empirical Study on the Effectiveness and Efficiency of Machine Learning Classifiers for Liver Disease Prediction, Mohamed Amine Nemmich (Djillali Liabes University of Sidi Bel Abbes) , Asmaa Boudali (Department of Electronics, Laboratory of coding and security of

information, Sciences and Technology University of Oran Mohamed Boudiaf) , Nouredine Boukhari (Department of Mathematics, Djillali liabes University of Sidi Bel Abbes), Fatima Debbat (Department of Computer Science, Mustapha Stambouli University of Mascara, Mascara)

- Enhancing Noisy Speech Recognition with CNN-LSTM Based Attention Mechanisms, Nousseiba Djeflal, Hamza Kheddar, Djamel Addou (Speech and Signal Processing Laboratory)
- Machine Learning Algorithms for Enhancing MPPT in Clean Energy Systems, ADDOU Asmaa (Speech and Signal Processing Laboratory) , Mazouz Nacera (University of MEDEA), Djamel Addou (USTHB)

3:15 – 4:00 PM Session 3: Artificial Intelligence and Machine Learning

(Conference room, 3rd floor, Computer Science Department)

Chair: Dr. Hafidha Bouziane

- PGFCC-Based Transformer Model for Robust Noisy Speech Recognition, Noussaiba Djeflal (Speech and Signal Processing Laboratory), Djamel Addou (USTHB), Hamza Kheddar (University of MEDEA)
- A Concise Overview of Vehicle Detection Techniques, Mohamed Zentar (Université 8 Mai 1945 de Guelma)
- Predicting Forest Fires in Algeria: A New Approach, Houda El Bouhissi (University of Bejaia, Faculty of Exact Sciences, LIMED Laboratory, 06000, Bejaia, Algeria), Naima Illoul Naima ILLOUL (University of Bejaia, Faculty of Exact Sciences, LIMED Laboratory, 06000, Bejaia, Algeria)
- A Comparative Study of Bio-Inspired Algorithms for Feature Selection in Biomedical Data, Badra Khellat Kihel (Mohamed BenAhmed Oran2 University Oran, Algeria)

4:00 – 4:30 PM Coffee Break & Networking

4:30 – 5:15 PM Session 4: AI Applications in Industry and Healthcare

(Conference room, 4th floor, Computer Science Department)

Chair: Pr Abdelatif Hassini and Dr Lila Meddeber

- Using Chatbots in E-commerce to Improve Profit, Houda El Bouhissi , Essaid Ferhat, Naima Bouagal (University of Bejaia, Faculty of Exact Sciences, LIMED Laboratory, 06000, Bejaia, Algeria)
- Deep Learning-Based Classification of Knee Osteoarthritis, Messaoudene Khadidja
- From Football to Facebook: Detecting Fake Profiles, Nadir Mahammed (Ecole Supérieure en Informatique Sidi Bel Abbès), Mahmoud Fahsi (Djillali Liabes University of Sidi Bel Abbes), Souad Bennabi (Hassiba Benbouali University of Chlef), Imène Saidi (Ecole Supérieure en Informatique, Sidi Bel Abbes)

4:30 – 5:15 PM Session 5: Big Data & Advanced Analytics

(Defense room, 3rd floor, Computer Science Department)

Chair: Prof. Latifa Dekhici

- Comparative Analysis of Deep Learning-Improved PET Reconstruction Methods, Asma Benyelles (laboratory of biomedical imaging)

- Enhanced Security in IIoT with LSTM and DNN, Afrah Gueriani (university of Yahia Fares-Medea)
- UAVs for Parcel Delivery: Challenges & Perspectives, Hichem Cheriet (USTO)
- Oral Cancer Detection Using Deep Learning, Rouabhi Sarra, Hakiki Racha Ikram, Tlemsani Redouane (USTO)

Day 2: Thursday, June 12, 2025

8:30 – 9:00 AM **Welcome**

9:00 – 10:00 AM **Online Presentations**

Defense Room – Session 6: AI & Optimization

Chair: Prof Hadria Fizazi

- An Enhanced Grey Wolf Optimizer, Rabab Bousmaha (ESI-SBA)
- Student Performance Prediction, Toufik Bazemlal, Messaoud MOSBAH
- Lattice Constant Prediction in Perovskites, Nadjeh Zeghdoud, Faïçal Djani (University of Biskra)
- Classification of Date Fruit Using ML, Ikram Kourtiche, Mostefa Bendjima, Mohammed El Amin Kourtiche (Tahri Mohamed University, Mathematics and Computer Science Department Laboratory of TIT)
- Plant Disease Classification with ECA-VGG19, Khedidja Mekhilef (Abbas Leghrour University of Khenchela)

Conference Room – Session 7: Computer Vision & Biomedical Imaging

Chairs: Prof. Khaled Belkadi & Dr. Sarah Nait Bahloul

- YOLOv12 for Autonomous Driving, Chahira Kezzal, Selsabil Benderradji , Azeddine Benlamoudi, Salah Eddine Bekhouche (University of Kasdi Merbah) , Abdelmalik Taleb-Ahmed (Laboratory of IEMN, CNRS, Centrale Lille)
- Rice Panicle Detection with Eigen-CAM, Meroua Belmir (Department of mathematics and computer science, Tahri Mohammed University of Bechar, Algeria. Innovation in Informatics and Engineering Laboratory (ENIE LAB), Bechar, Algeria.)
- Brain Tumor Detection with CNN & SVM, Zouhir Iourzikene (Université M'Hamed Bougara de Boumerdes - Faculté de Technologie), Fawzi GOUGAM (Laboratoire Mécanique des Solides et Systèmes (LMSS), Faculté de Technologie, Université M'Hamed BOUGARA de Boumerdes, 35000 Boumerdes), Djamel BENAZZOUZ (Laboratoire Mécanique des Solides et Systèmes (LMSS), Faculté de Technologie, Université M'Hamed BOUGARA de Boumerdes, 35000 Boumerdes)
- GAN-LSTM for ECG Anomaly Detection, Nacima Mellal, Soumia Oubadi (OEB University)
- Deep Learning for Antimicrobial Molecules, Touati Chahira (University of Oran 1 Ahmed Ben Bella), Kemmar Amina (Ecole Supérieure d'Economie D'Oran), Chaib Faiza (University of Oran 1 Ahmed Ben Bella)

10:00 – 10:30 AM **Coffee Break & Networking**

10:30 – 12:00 PM **Parallel Online Presentations**

Defense Room – Session 8: Distributed Systems & Network Intelligence

Chairs: Dr Hicham Reguieg & Dr. Ahmed Roumane

- VNE via RL in Nested Virtualization, Abderrahim Bouchair (University of Oran1 Ahmed Ben Bella)
- Big Data Skyline for Service Selection, Walid Khames (University of Blida1)
- Congestion Reduction in IoV, Belhadj Aissa, KIES Ali, MOSTEFA Fatima zahra, MEKKAKIA MAAZA Zoulikha (Université des sciences et technologies Oran Mohammed Boudiaf)
- Transformer Monitoring with ML, Boudjella Fatima Zohra, BOUDJELLA FATIMA ZOHRA (University of Ain Temouchent), BOUDJELLA SOUHILA (University of Mascara), BRAHAMI MOHAMED NADJIB (University of Sidi Bel Abbes), BRAHAMI MOSTEFA (University of Sidi Bel Abbes), Khelifi El Mabrouk (University of Sidi Bel Abbes), Mes-safeur Radjaa (University of Ain Temouchent),Bousmaha imen (ESSA-Tlemcen)

Conference Room – Session 9: Smart Healthcare, Security & Anomaly Detection

Chair: Dr. Dekhici Latifa and Dr. Djebbar Amel

- Drug Assignment with GCN, Yassine Bouhelassa
- Water Quality Assessment with DBSCAN, Mohamed Imed Khelil (Msila university)
- Open Circuit Fault Detection in Motors, Younes Tamissa, Farid Kadri (Université de Ouar-gla)
- Hybrid Intrusion Detection in IoMT, Hadil Merzougui (Computer science department, University of 08 Mai 1945) , Karima Benhamza (LabSTIC, University of 08 Mai 1945)
- CyanoHABs Prediction with Hybrid ML, Bounekhla Oumaima, Hemici Meriem , Dendnani Nadjette (University of badji Mokhtar Annaba)

12:30 – 1:00 PM Closing Ceremony

1:00 PM Lunch & Networking

2:00 PM Guided visit