



**CSTL**  
COMPUTER SCIENCE  
AND NEW TECHNOLOGIES LAB

# CSNT

## 2025 PROGRAM

December 7th, 2025

**08:00 - 09:00      Registration**

**09:00 - 09:30      Opening Ceremony - Mordi Senouci Auditorium**

Pr. Baghdad Atmani, Rector of Mostaganem university and Honory chair

Pr. Abdessamed Amir, Dean of the Faculty of Exact Sciences and Computer Science

Pr. Lakehal Belarbi, Director of the Department of Mathematics and Computer Science

**09:30 - 09:45      CSNT'2025 Presentation**

Pr. Karim Sehaba

**09:45 - 10:45      Keynote : Challenges around real Knowledge Graphs**

Pr. Hamamache Kheddouci, Claude Bernard University, Lyon 1, LIRIS CNRS Lab

Session Chairs : Pr. Karim Sehaba | Dr. Karim Bessaoud

**10:45 - 11:15      Coffee Break & Poster Session 1 (Parallel)**

### Parallel Sessions

#### Session 1 : Auditorium

Chairs : Pr. R.M Hamou | Dr. B. Kaid Slimane

##### Linda Benachenhou

Evaluation criteria for Explainable Machine Learning :  
A proposal in the context of Learning Analytics

##### Mohamed Kenichi

Simulation of Autonomous Navigation for Mobile Robot  
Using Physics-Informed Neural Networks

##### Imad Eddine Laredj

A Hybrid Process-Control Simulation Enviroment for Rev-  
erse Osmois Desalination

#### Session 2 : Salle Polyvalente

Chairs : Pr. M Bendaoud | Dr. C. Abdellah Besalloua

##### Amar Ait Aoudia

A novel 3D Geometrics Distance Measure for Pythagorean  
Fuzzy Numbers Based on Centroid Regions

##### Mahmoud Fahsi

Optimizing Fake News Detection with Game-Based Meta-  
heuristic

##### Ali Ala Eddine Mellah

Artificial Intelligence for Fuzzy Manufacturing Scheduling :  
A Comprehensive Review

11:15 - 12:30

**12:30 - 14:00      Lunch**



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### Parallel Sessions

|               |                                                                                                                                   |                                                                                                                     |
|---------------|-----------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------|
| 14:00 - 15:15 | <b>Session 3 : Auditorium</b>                                                                                                     | <b>Session 4 : Salle Polyvalente</b>                                                                                |
|               | Chairs : Pr. F Barigou   Dr. M.A Moumene                                                                                          | Chairs : Pr. A.H Benyamina   Dr. M. Abid                                                                            |
|               | <b>Abdellah Medles</b><br>A Systematic Review on Multimodal AI Platforms for Medical Education                                    | <b>Abderrahmane Kaddour Aissat</b><br>Literature Review : Resource Allocation In Mobile Edge Computing              |
|               | <b>Achour Achroufene</b><br>Optimizing the CNN-LSTM Model for Human Activity Recognition                                          | <b>Khadidja Yachba</b><br>Innovative Paradigms for Container Storage                                                |
|               | <b>Roumeissa Khennaoui</b><br>From Single to Multi-Sensor Data : Evaluating Anomaly Detection Accuracy in Ambient Assisted Living | <b>Zineb Malek Chaouch</b><br>Blockchain for subsidized milk supply chain in Algeria : opportunities and challenges |

15:15 - 15:45

Coffee break and Poster Session 2 (Parallel)

### Parallel Sessions

|               |                                                                                                                                   |                                                                                                                                  |
|---------------|-----------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|
| 15:45 - 17:00 | <b>Session 5 : Auditorium</b>                                                                                                     | <b>Session 6 : Salle Polyvalente</b>                                                                                             |
|               | Chairs : Pr. L. Bellatreche   Dr. M.N. Laredj                                                                                     | Chairs : Pr. G. Belalem   Dr. C.M. Bentaouza                                                                                     |
|               | <b>Zeyd Saïad</b><br>Knowledge Graph-Enhanced Large Language Models in Biomedical and Epidemiological QA : A Review               | <b>Asmaa Ferhi</b><br>The Agricultural Data Revolution: An Analysis of Big Data Methodologies and a vision for Future Innovation |
|               | <b>Mohamed Salah Eddine Abbou</b><br>Evaluation of Deep Neural Networks for the Classification of Cognitive Decline from 3D Brain | <b>Imane Meguenni</b><br>Smart Irrigation Decision Making Using Machine Learning                                                 |
|               | <b>Ikram Ladjel</b><br>Hybrid Deep Learning Approaches for ECG Signal Classification and Cardiac Diagnosis                        | <b>Mahmoud Hammadi</b><br>A fractal-based for early detection of plant water using multimodal simulated agronomic data           |

17:00 - 17:15

Conference Summary and Closing



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### Poster Session 1

**Boudra Soumia and Boudra Batoul**

Towards Realistic Multi-Object Tracking Evaluation: YOLOv12-Based Detection with DeepSort and StrongSORT for Sports Analysis

**Belkacem Amani, Triqui Kaid Slimane Bochra and Habib Zahmani Mohamed**

Lung cancer Detection and Classification using deep learning : A literature review

**Nour El Houda Gorine, Mohammed El Amine Moumene and Bekerdagh Saliha**

Artificial Intelligence for ECG-Based Detection of Left Ventricular Systolic Dysfunction

**Manel Hadjer Benyarou, Fatima Zohra Benkaddour and Karim Bouamrane**

Towards a Machine Learning based System for an Effective COVID-19 Situation Response in Algeria : A Survey and a proposed approach

**Fodil Sebaa, H.Zahmani Mohamed, Bouchra Triqui and Wassim Bouazza**

AI in Emergency Departement Planning and Scheduling : A short review

### Poster Session 2

**Mohamed Abbassa, Moulay Driss Mechaoui, Mohamed Moussa and Karim Sehaba**

Intelligent Aquacultural : A Survey on AI and IoT Technologies for Enhanced Productivity and Sustainability

**Amira Derdour, Karim Sehaba and Moulay Driss Mechaoui**

AI and machine learning for smart aquaculture : Towards intelligent water and energy management

**Abdelkader Boussaid, Karim Bessaoud and Meriem Abid**

Renewable Energy in Algeria : Issues, Challenges and initial Insights

**Abdellatif Beldjelti, Mohamed Adnane Laredj and Meriem Abid**

Lifecycle Management in Oil & Gas: Evidence, Benefits and Implementation Challenges

**Ikhlas Zeblah and Karim Sehaba**

Collaboration Measurement for Educational Recommenders

**Abderrahmane Halloui, Fatima Zohra Benidris and Said Limam**

AI and Traditional Models for Task Offloading in IoT-Fog Networks