

# Program

## The First Workshop on Artificial Intelligence (WAI'23)

*April 18-19, 2023- Bouira, Algeria*

| Date                | Chair              | Time             | Event   |
|---------------------|--------------------|------------------|---|
| Tuesday<br>18 April | Pr. AMAD<br>Mourad | 10h00 -<br>10h30 | <b>Opening ceremony</b> <ul style="list-style-type: none"><li>• Rector's word and official opening</li><li>• Presentation of the workshop by the Dean of the Faculty of Sciences and applied Sciences</li></ul> |
|                     |                    | 10h30 -<br>11h00 | <b>Keynote speaker 1: Pr. BOULIF Menouar (UMBB)</b><br><b>Title: “ Algorithmes Génétiques et Logique Floue “</b>  |
|                     |                    | 11h00 -<br>11h30 | <b>Keynote speaker 2: Dr. OUKAS Nourredine (UAMOB)</b><br><b>Title: “ Application of Artificial Intelligence Approaches in Internet of Things “</b>   |
|                     |                    | 11h30 -<br>11h40 | <b>Break</b>  |
|                     | Dr. ABBAS<br>AKli  | 11h40-<br>11h55  | <b>C1 : Samia Haboussi (University of Bouira)</b><br><b>Title: “ Arabic Speech Recognition Using Deep Learning “</b>  |
|                     |                    | 11h55 -<br>12h10 | <b>C2 : Pr. Brahim Mahfoud (University of Bouira)</b><br><b>Title: “ Optimisation des technologies solaires photovoltaïques (PV) par l'intelligence artificielle (IA)“</b>                                      |
|                     |                    | 12h10 -<br>12h25 | <b>C3: Asma Hasnaoui (University of Bouira)</b><br><b>Title: “ Blood Spectroscopy Classification based on Machine learning Approaches Case study: Cholesterol levels (Hdl,Ldl)and Hemoglobin (Hgb) “</b>        |
|                     |                    | 12h25 -<br>12h40 | <b>C4 : Abderrezak DJOUABRI (University of Bouira)</b><br><b>Title: “ Simulated annealing et Greedy approaches heuristiques sur le problème de placement du contrôleur : Etude comparative“</b>                 |
|                     |                    | 12h40 -<br>12h55 | <b>C5 :Kenza Bouchiba (University of Bouira)</b><br><b>Title: “An Optimized Convolutional Neural Network Architecture for plant seedlings classification “</b>  |

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|                               |                                    | 12h55 - 13h10 | <b>C6 : Abdelkader Benaissi (University of Bouira)<br/>Title: “ Adaptive Consistency in Microservices using Machine Learning: Personalizing Consistency for Improved Performance, Scalability, and Availability “</b> |              |
|                               |                                    | 13h10 - 13h25 | <b>C7 : Younes Lebboukh (University of Bouira)<br/>Title: “ A Question Answering System Applied to Disaster Management“</b>   |              |
|                               |                                    | 13h25 - 13h40 | <b>C8 : Lina Aida Behlouli (University of Bouira)<br/>Title: “ La prédiction des maladies cardiaques en utilisant les techniques de l’apprentissage automatique ’Approche hybride GA-KNN’ “</b>                       |              |
|                               |                                    | 13h40 - 13h55 | <b>C9 : Dahbia Irnatene (University of Bouira)<br/>Title: “Early Prediction of Stroke using Artificial Intelligence Approach “</b>  |              |
|                               |                                    | 13h55 - 14h00 | <b>Closing the first workshop day</b>   |              |
| <b>Wednesday<br/>19 April</b> | <b>Dr.<br/>CHOUIREF<br/>Zahira</b> | 10h00         | <b>Opening the second workshop day</b>  |              |
|                               |                                    | 10h00 - 10h30 | <b>Keynote speaker 3: Dr. AID Aicha<br/>Title: “ Deploying Machine Learning Models in Production as APIs - with FastAPI and Flask“</b>  |              |
|                               |                                    | 10h30 - 11h00 | <b>Keynote speaker 4: Dr. Zair Bouzidi<br/>Title: “Education through Social Media with Artificial Intelligence for Warning and Alerting in Sustainable Environment: Applications”</b>                                 |              |
|                               |                                    |               | 11h00 - 11h10   | <b>Break</b> |
|                               | <b>Dr. BADIS<br/>Lyes</b>          | 11h10- 11h25  | <b>C1 : Dr. HAI Yassine (University of Bouira)<br/>Title: “ Artificial Intelligence “</b>   |              |
|                               |                                    | 11h25- 11h40  | <b>C2 : Hocine Dai (University of Bouira)<br/>Title: “ Intelligent Approaches for the Internet of Things: Water Quality Prediction“</b>   |              |
|                               |                                    | 11h40- 11h55  | <b>C3: Abuzer Hussein Ibrahim (University of Bouira)<br/>Title: “ New Hierarchical Clustering Based on Fish School Search “</b>   |              |
|                               |                                    | 11h55 - 12h10 | <b>C4 : Ouail Nacef (University of Bouira)<br/>Title: “ Early Detection of Diabetic Retinopathy Using Deep Learning Approach “</b>  |              |

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|  |                                     | 12h10 - 12h25 | <b>C5 : Imane Hamidou (University of Bouira)<br/>Title: “ Automatic and Predictive Scaling based on Kubernetes Orchestrator (MEAP) “</b>                              |
|  |                                     | 12h25 - 12h40 | <b>C6 : Dr. Nourredine Oukas (University of Bouira)<br/>Title: “ Clustering in Energy Harvesting-WSNs using Genetic Algorithm and K-means Machine Learning“</b>       |
|  |                                     | 12h40 - 12h55 | <b>C7 : Aouari Issam (University of Bouira)<br/>Title: “ Artificial Neural Network Model for Earthquake Duration Prediction Using Multiple Seismicity Indicators“</b> |
|  |                                     | 12h55 - 13h10 | <b>C8 : Abdelhak Aouadi (University of Bouira)<br/>Title: “ Artificial Intelligence (AI) Applied in Civil Engineering “</b>   |
|  | <b>Dr.<br/>Nourredine<br/>OUKAS</b> | 13h10 - 13h25 | <b>C9 (Online) : Madhumitha Thotakura (Indea)<br/>Title: “ ACTION BASED SIGN LANGUAGE RECOGNITION USING HAND GESTURES “</b>   |
|  |                                     | 13h25 - 13h40 | <b>C10 (Online) : Makarand Jagadale (Indea)<br/>Title: “ Solidity Based Fake Product Identification System using Blockchain“</b>                                      |
|  |                                     | 13h40         | <b>Closing the workshop</b>   |

Link of the online session: <https://meet.google.com/emc-ziir-dfy>