



## MAIN PROGRAM

# The 2<sup>nd</sup> International Polydisciplinary Conference on Artificial Intelligence and New Technologies

20 to 22 February 2024

Faculty of Sciences, Ibn Tofail University, Kenitra, Morocco

### Day 1: Tuesday, February 20, 2024

<b>09h00 - 10h30</b>	<b>Registration</b>
<b>10h30 - 11h30</b>	<b>Welcome Reception &amp; Official Opening</b>
	<b>Agreement Signing Ceremony</b>
<b>11h30 - 12h00</b>	<b>Coffee Break</b>
<b>Session Chairs:</b>	<b>Prof. Otman ABDOUN, FST, Tetouan, Morocco</b> <b>Prof. Chakir TAJANI, FPL, Laarach Morocco</b> <b>Mr. Idriss MOUMEN, FS, UIT, Morocco</b>
<b>12h00 - 12h45</b>	<i>Keynote Speaker</i> <b>Prof. Mahmud MUFTI</b> Nottingham Trent University, UK <b>"Promoting Good Health and Well-Being: An Intelligent System Approach"</b>
<b>12h45 - 13h30</b>	<i>Keynote Speaker</i> <b>Prof. Amal SEGHROUCHNI</b> University Mohammed VI Polytechnic, Morocco <b>"Exigences d'une Intelligence Artificielle de Confiance"</b>
<b>13h30 - 14h15</b>	<i>Keynote Speaker</i> <b>Prof. Mohamed ESSAIDI</b> EMSI, Morocco <b>"Leveraging the potential of AI for Sustainable Development Goals (SGDs) Acceleration"</b>
<b>14h15 - 15h00</b>	<b>Lunch Break</b>
<b>15h00 - 16h30</b>	<b>Session 1</b> (Amphi Rouge, Faculty of Science)
<b>16h30 - 17h00</b>	<b>Coffee Break</b>
<b>17h00 - 18h30</b>	<b>Session 2</b> (Amphi Rouge, Faculty of Science)

## Day 2: Wednesday, February 21, 2024

<b>09h00 - 09h30</b>	<b>Registration</b>
<b>Session Chairs:</b>	<b>Prof. Otman ABDOUN, FST, Tetouan, Morocco</b> <b>Prof. Chakir TAJANI, FPL, Laarach Morocco</b> <b>Mr. Idriss MOUMEN, FS, UIT, Morocco</b>
<b>09h30 - 10h15</b>	<i>Keynote Speaker</i> <b>Prof. Yassine RUCHEK</b> Université de Technologie de Belfort Montbéliard, France <b><i>"Intégration de connaissances contextuelles sur les environnements urbains dans des modèles de deep learning pour améliorer leurs performances pour des tâches visuelles"</i></b>
<b>10h15 - 11h00</b>	<i>Keynote Speaker</i> <b>Prof. Wadii BOULILA</b> Prince Sultan University, Saudi Arabia <b><i>"Rethinking Machine Intelligence: The Rise of Few-Shot Learning"</i></b>
<b>11h00 - 11h45</b>	<i>Keynote Speaker</i> <b>Prof. Chakir TAJANI</b> FPL, Laarache, Morocco <b><i>"Bio-inspired methods: Algorithms and Applications"</i></b>
<b>11h45 - 12h15</b>	<b>Coffee Break</b>
<b>12h15 - 13h45</b>	<b>Session 3</b> (Amphi Rouge, Faculty of Science)
<b>13h45 - 14h30</b>	<b>Lunch Break</b>
<b>14h30 - 16h00</b>	<b>Session 4</b> (Amphi Rouge, Faculty of Science)
<b>16h00 - 16h30</b>	<b>Coffee Break</b>
<b>16h30 - 18h00</b>	<b>Session 5</b> (Amphi Rouge, Faculty of Science)

## Day 3: Thursday, February 22, 2024

<b>09h00 - 09h30</b>	<b>Registration</b>
<b>09h30 - 11h00</b>	<b>Session 6</b> (Amphi Rouge, Faculty of Science)
<b>11h00 - 12h30</b>	<b>Session 7</b> (Amphi Rouge, Faculty of Science)
<b>12h30 - 13h00</b>	<b>Official Closing</b>
<b>13h00 - 13h30</b>	<b>Coffee Break</b>
<b>15h00 - 16h30</b>	<b>Session 8 (Online)</b>

# Technical sessions

## Day 1: Tuesday, February 20, 2024

15h00 – 16h30

Session 1 (Amphi Rouge, Faculty of Science)

Session Chairs:

Prof. Youssef Fakhri, UIT, Kenitra Morocco  
Prof. Samira Khouli, ENSA, Tetouan, Morocco  
Prof. Khatir El Haymoudi, FPL, Laarach, Morocco

### **"A Metaheuristic Algorithms for optimization of integrated scheduling of cranes and storage platforms at Automated Container Terminals"**

Hamza Garmouch - University Abdelmalek Essaadi, Tetouan, Morocco

### **"Intelligent approach to information security in Big Data"**

Mouhssine Elannane - University Ibn tofail, Kenitra, Morocco

### **"Artificial intelligence in renewable energy sector"**

Salima Boudraham - Mohammed V University, Rabat, Morocco

### **"Coronary artery diseases risk factors identification using machine learning"**

Nabaouia Louridi - Mohammed V University. Rabat, Morocco

### **"A Multi-Agent Systems Approach to Hadoop's Small File Challenge"**

Idriss Moumen - University Ibn tofail, Kenitra, Morocco

17h00 – 18h30

Session 2 (Amphi Rouge, Faculty of Science)

Session Chairs:

Prof. Otman Abdoun, FST, Tetouan, Morocco  
Prof. Adil Makrani, UIT, Kenitra, Morocco  
Prof. Abdelghani Souhar, UIT, Kenitra, Morocco

### **"Smart Agriculture: Using Artificial Intelligence and Computer Vision for Precision Farming"**

Abdellah Lakhssassi - University Abdelmalek Essaadi, Tetouan, Morocco

### **"Unleashing the Power of Big Data Analytics and Deep Learning for Cryptocurrency Price Prediction: A Hadoop-LSTM Approach"**

Ayoub Allali - University Ibn tofail, Kenitra, Morocco

### **"AI Educational Student Guidance Assistant Prototype"**

Hassan Silkhi - University Ibn tofail, Kenitra, Morocco

### **"Optimizing Early Diabetes Detection: A Fusion of K-Means and K-Medoids Clustering with Random Forest and Logistic Regression as Supervised Machine Learning Algorithms"**

Fadoua El Kebraoui - University Abdelmalek Essaadi, Tetouan, Morocco

### **"Exploration des milieux forestier et aquatique par les élèves de l'Enseignement Secondaire Qualifiant au Maroc"**

Ouafaa Haddad - ENS, Morocco

## Day 2: Wednesday, February 21, 2024

12h15 – 13h45

Session 3 (Amphi Rouge, Faculty of Science)

**Session Chairs:**  
Prof. Mohamed Amnai, UIT, Kenitra, Morocco  
Prof. Mounir Ait Kerroum, UIT, Kenitra, Morocco  
Prof. Khalid Benlhachmi, UIT, Kenitra, Morocco

### **"Energy Efficient Routing Protocols in UWSNs : A taxonomy"**

Aissata Diallo - University Ibn tofail, Kenitra, Morocco

### **"Predicting the Efficacy of Scientific Inquiry Approaches for Teaching Life and Earth Sciences in Moroccan Secondary Education: A Machine Learning Perspective"**

El Mostapha Bouhamid - University Ibn tofail, Kenitra, Morocco

### **"ChatGPT Position in the fight against fake news : literature review"**

Loubna Salaheddine - University Ibn tofail, Kenitra, Morocco

### **"New ideas for upgrading slums as smart cities by processing remote sensing images using a convolutional neural network"**

Rachid Dahmani - University Ibn tofail, Kenitra, Morocco

### **"Informatisation des processus d'apprentissage, intégration des théories pour un enseignement plus authentique"**

Alsény Camara - University Abdelmalek Essaadi, Tetouan, Morocco

14h30 – 16h00

Session 4 (Amphi Rouge, Faculty of Science)

**Session Chairs:**  
Prof. Chakir Tajani, FPL, Laarache, Morocco  
Prof. Farah Abdoun, ENSAM, Rabat, Morocco  
Prof. Ayoub Amrani, UIT, Kenitra, Morocco  
Prof. Haitam Ettazi, FST, Settat, Morocco

### **"Fake Profiles Detection Using Supervised Machine Learning Algorithms"**

Ismail Bensassi - FST, Morocco

### **"Integrating AI in Healthcare for Climate-Resilient Solutions: A Review"**

Chaymae Taib - Advanced Science and Technology Laboratory, Polydisciplinary Faculty, Abdelmalek Essaadi University, Morocco

### **"Toward Green Internet of Vehicles (G-IoV): Merging Vehicular Innovation with Environmental Responsibility"**

Adnan El Ahmadi - Polydisciplinary Faculty, Abdelmalek Essaadi University, Larache, Morocco

### **"Innovations in Education: The Role of E-Learning and VR Technologies"**

Meryem Missaoui - University Ibn tofail, Kenitra, Morocco

### **"ECG-based Sleep Apnea Detection using Convolutional and Long Short-Term Memory Networks"**

K. Praveen Kumar - Velagapudi Ramakrishna Siddhartha Engineering College, India

16h30 – 18h00

Session 5 (Amphi Rouge, Faculty of Science)

Session Chairs:

Prof. Zytoun Ouadoudi, UIT Kenitra Morocco  
Prof. Younes Chihab, UIT, Kenitra, Morocco  
Prof. Anouar Riadsolh, UM5, Morocco  
Prof. Khadija Louzaoui, UIT, Kenitra, Morocco

**"Detecting smishing attacks on smartphones: A comparative study between supervised and unsupervised learning techniques"**

Mouna SIF-EDDINE - Advanced Systems Engineering Laboratory

**"An early student performance prediction using ANN-GRU model"**

Abdelmajid Elhajoui - FSTT, Abdelmalek Essaadi University, Tetouan, Morocco

**"Modelling and optimization of extraction yield of the natural red madder dye"**

Diany Rajaa

**"Mapping the research landscape: A bibliometric analysis of the relationship between supply chain and employee performance studies"**

Monique K Hameni - University of Douala, Cameroun

**"A community detection over LinkedIn data – a use case"**

Mohamed Aicham - University Ibn tofail, Kenitra, Morocco

## Day 3: Thursday, February 22, 2024

09h30 – 11h00

Session 6 (Amphi Rouge, Faculty of Science)

Session Chairs:

Prof. Ali Choukri, UIT, Kenitra, Morocco  
Prof. Abdessalam Mouden, UIT, Kenitra, Morocco  
Dr. Fariz Ahmed Amine, UIT, Kenitra, Morocco

**"Study of ML approaches for anomaly detection in high-dimensional data"**

Mouad Afifal - University Ibn tofail, Kenitra, Morocco

**"TalentFinder: An Intelligent Chatbot for LinkedIn Profile Search Based on Recruitment Needs"**

Manal Matti - University Ibn tofail, Kenitra, Morocco

**"Artificial Intelligence in Enhancing Crop Health Management"**

Meryem Ghanem - Plant Protection Laboratory, Regional Center of Agricultural Research of Settat, National Institute of Agricultural Research, Rabat, Morocco

**"Prediction of heart attack by using AI"**

Asmaa Bouich - University Ibn tofail, Kenitra, Morocco

**"Exploring the Nexus: AI Applications in Digital and applied Arts"**

Houria H Kekoul - University Ibn tofail, Kenitra, Morocco

**11h00 – 12h30**

**Session 7** (Amphi Rouge, Faculty of Science)

**Session Chairs:**

**Prof. Jaafar Abouchabaka, UIT, Kenitra, Morocco**

**Prof. Said Tkatek, UIT, Kenitra, Morocco**

**Prof. Najat Rafalia, UIT, Kenitra, Morocco**

**Dr. Hala Khankhour, UIT, Kenitra, Morocco**

**"A Machine Learning-Integrated IDS Framework for Smart Factories in IIoT"**

Lahcen Idougli - University Ibn tofail, Kenitra, Morocco

**"Adversarial Challenges in IoT Networks: Assessing Autoencoder Robustness with GAN-Generated Threats"**

Sanaa El Fakiri - ENSA, University Ibn tofail, Kenitra, Morocco

**"Exploring AI Solutions for Predicting Concrete Compressive Strength: A Comparative Study of Various Machine Learning Models"**

Younes Alouan - Cadi Ayyad University, Marrakech, Morocco

**"Development of new technology S4S (Star For Study) for teaching IT sphere students"**

Sanjar Zokirov - Fergana branch of Tashkent University of Information Technologies named after Muhammad al-Khwarizmi, Tachkent

**15h00 – 16h30**

**Session 8 (Online)**

Meet link: <https://meet.google.com/hhz-sagb-gfc> | Code: 490 051 771

**Session Chairs:**

**Prof. Jaafar Abouchabaka, UIT, Kenitra, Morocco**

**Prof. Najat Rafalia, UIT, Kenitra, Morocco**

**Mr. Idriss Moumen, UIT, Kenitra, Morocco**

**"A Framework of EEG-based Seizure Detection Using Machine Learning Techniques"**

Saadullah F Abbasi - University of Birmingham, UK

**"Big data Applications, challenges and next-generation for big data storage"**

Ayoub Sghir - University Ibn tofail, Kenitra, Morocco

**"AI-Based Credit Risk Assessment: A Bibliometric Analysis"**

Fatima-Zohra Benhayoun - University Ibn tofail, Kenitra, Morocco

**"Supercapacitors in technologies for improving energy efficiency and sustainable ship power supply"**

Oleksiy M Melnyk - Odesa National Maritime University, Ukraine

**"Employing Course Structuring and Learning Organization Methods for Building a "Robust Foundation in an Intelligent Tutorial System"**

Yassine Rouissi - FSTG, Marrakech, Morocco

**"A Single Channel-Based Neonatal Sleep-Wake classification using Hjorth Parameters and Improved Gradient Boosting"**

Saadullah F Abbasi - University of Birmingham, UK