## ICBDAIA'24 PROGRAM

## Main Program

## 07rd - November 2024, Higher School of Technology, Laayoune

The state of the s		
09h30 -10h00	Re	eception and registration of participants on the First Day
10h30 - 11h30	Academic	opening of the conference in EST of Laayoune
	Prof. Fatim Laayoune, M	a Zahra ELHAFIDI ELALAOUI, Dean of Faculty of medicine and pharmacy,
	Prof. Idrissi Prof. Said T University, Ke Prof. Youss	Hamid RGUIBI, Director of the Higher School of Technology, Laayoune, Morocco KATEK, General Chair of ICBDAIA'24, Faculty of Science, Ibn Tofail enitra, Morocco sef FAKHRI, LaRI Director, Faculty of Science, Ibn Tofail University,, Kenitra,
	Morocco Mr Khalid E Intelligence	L FAYQ, President of the Moroccan Sahara Association for Science and Artificial
11h30 - 14h00	Keynote S	peakers Session (EST Amphitheatre)
	General	Prof. Said TKATEK Ibn Tofail University , Morocco
	chair:	
	Theme:	Optimizing Water and Resource Management in Agriculture through Artificial Intelligence
	Speaker 1:	Prof. Mo Medwani CEO & Founder Innovatics, Adjunct Faculty at Mercer University, USA
	Theme:	Harnessing Artificial Intelligence to Develop Agriculture in the Southern Regions of Morocco
	Speaker 2 :	Prof. Fatima Zahra ELHAFIDI ELALAOUI Dean of Faculty of medicine and pharmacy, Laayoune, Morocco
	Theme:	Artificial intelligence and health
	Speaker 3 :	Prof. Otman ABDOUN Faculty of Science Tetouan, Morocco
-	Theme:	Yield Prediction and Food Loss Reduction via Predictive AI Models
12h00 - 18h00		Oral session
Prof. Abdelghani SOUHA Prof. Younes CHIHAB	R Oral session 1	Topic 1: Artificial Intelligence Applications: Healthcare, Agriculture, Economy Topic 2: Big Data Analytics and IoT Applications Topic 3: Image Processing, NLP, IA Modeling, Optimization, Cloud computing
Prof. Youssef FAKHRI	Oral session 2	Topic 1: Artificial Intelligence Applications: Healthcare, Agriculture, Economy Topic 2: Big Data Analytics and IoT Applications Topic 3: Image Processing, NLP, IA Modeling, Optimization, Cloud computing
Prof. Adil EL MAKRANI	virtual session	All Topics
15h00 – 19h00	worksho	ops in IPSA INSTITUT & Institute of Agriculture in Laayoune
101100	IPSA INSTITUT	Al-Driven Personalization in Media Broadcasting Al in Content Creation and Production Automation
	Institute of Agriculture in Laayoune :	- Al for Sustainable Water Management in Agriculture

## November, 08th 2024

09h30 – 13h30 workshops in CMC Laayoune

Theme Machine Learning Basics

**Deep Learning and Neural Networks** 

Computer Vision with AI

14h00 - 16h00 Lunch

16h30 – 18h00 Official Opening of the conference in EST Amphitheatre

Mr Abdesslam BEKRATE, Wali of the LAAYOUNE SAKIA EL HAMRA Region

Mr Moulay Hamdi OULD ERRACHID, President of the municipality of Laayoune

Mr Hamdi OULD ERRACHID, President of the Laayoune Region

Prof. Mohamed Larbi KERKEB, President of Ibn Tofail University, Kenitra Morocco

Prof. Abdelaziz BENDOU, President of Ibn Zohr University, Agadir, Morocco

Prof. Jamila EL ALAMI, Director of National Center for Scientific and Technical Research (CNRST), Rabat, Morocco

Prof. Fatima Zahra ELHAFIDI ELALAOUI, Dean of Faculty of medicine and pharmacy, Laayoune, Morocco

Prof. Mohamed EBN TOUHAMI, Dean of Faculty of Science, Ibn Tofail University, Kenitra,

Morocco **Prof. Idrissi Hamid RGUIBI,** Director of the Higher School of Technology, Laayoune, Morocco

Prof. Said TKATEK, General Chair of ICBDAIA'24, Faculty of Science, Ibn Tofail

University, Kenitra, Morocco

Mr. Jabrane Reklaoui, DG of the South Agency, Laayoune, Morocco

Mr Badda ALIOUA, Director of TV LAAYOUNE

Prof. Youssef FAKHRI, LaRI Director, Faculty of Science, Ibn Tofail University,, Kenitra,

Mr Khalid EL FAYQ, President of the Moroccan Sahara Association for Science and Artificial Intelligence

18h00 – 18h30 Coffee Break

18h30 - 2lh00 Keynote Speakers Session (EST Amphitheatre)

Speaker 1: Prof. Mohamed ESSAAIDI

President Director of EMSI group, Morocco

Theme: Al for Sustainable Crop Management

Speaker 2: Prof. Anas ABOU EL KALAM

ENSA Marrakech, Morocco

Theme: Enhancing Agricultural Practices with Computer Vision and Machine

**Learning Techniques** 

Speaker 3: Prof. Jaime LLORET MAURI

Polytechnic University of Valencia, Spain

Theme: AI in Precision Irrigation and Water Management

Speaker 4: Dr. Mo Medwani

CEO & Founder Innovatics, Adjunct Faculty at Mercer University, USA

Theme: Smart Agriculture

21h00 – 21h30 Closure of the conference

Prof. Said TKATEK, Faculty of Science, Ibn Tofail University, Morocco Chairs:

Prof. Hamid RGUIBI IDRISSI, Higher School of Technology, Laayoune, Morocco

Oral and virtual Sessions	
12H00 – 18h	Reception and registration of communication participants on the First Day 07 November 2024 (at Higher School of Technology, Laayoune)
Session 1 12H- 14H Room 1, EST	<b>Topic 1: Artificial Intelligence Applications: Healthcare, Agriculture, Economy</b> At Room 1, Higher School of Technology, from 09h30 - 11h00
Chairs	Prof. CHIHAB, EST, Ibn Tofail University, Morocco Prof. Adil EL MAKRANI, Faculty of Science, Ibn Tofail University, Morocco
Paper # 1	Issam El Hammouti, Ilham Addarrazi and Mohamed el Merouani "A Convolutional Deep Ordinal Neural Network for Alz-heimer's Disease Classification", Ibn Tofail University Kenitra, Morocco
Paper # 2	Rabiaa Cheikh Maoulainine, Younes Chihab, Zineb Squalli Houssaini "Deep Learning Approaches for Detecting Saharan Sand on Roads: A Comparative Study of CNN, U-net, and ResNet50intention", Ibn Tofail University Kenitra, Morocco
+ Paper # 3	Tarik El Moudden, Mohamed Amnai, Ali Choukri, Youssef Fakhri, and Gherabi Noreddine "Deep Learning and Sentinel-2 imagery for Crop Type Segmentation", Ibn Tofail University Kenitra, Morocco
Paper # 4	Abderrahman Laabidi, Said Tkatek and Mohammed Ouhssine "Predictive analysis of weight management in men and women aged 25 to 45 using the decision tree", Ibn Tofail University Kenitra, Morocco
Paper # 5	AbderHicham BOUSSATTA, Marouane CHIHAB, Mohamed CHINY and Younes CHIHAB "Comparing RNN, LSTM, and GRU Models in Oil Price Forecasting", Ibn Tofail University Kenitra, Morocco
Paper#6	Marouane CHIHAB, Hicham BOUSSATTA, Mohamed CHINY, Moulay Hadi Youssef "Comparison of ARIMA and SARIMA Models for Predicting the Evolution of IT Companies: An Analysis Based on Employee Evaluations", Ibn Tofail University Kenitra, Morocco
Paper # 7	Shib Kumar Saraf and Solaimurugan Vellaipandiyan  "Multifaceted Feature Extraction and Machine Learning Approaches for Mortality Risk Prediction in Pediatric ICUs", Centre for Development of Advanced Computing (CDAC) Chennai, Chennai, Tamil Nadu 600113, India.

Session 1 12H– 14H Room 2, EST	<b>Topic 2: Big Data Analytics and IoT Applications</b> At Room 2, Higher School of Technology, from 09h30 - 11h00
Chairs	<b>Prof. Abdelghani SOUHAR,</b> Faculty of Science, Ibn Tofail University, Morocco <b>Prof. Youssef FAKHRI,</b> Faculty of Science, Ibn Tofail University, Morocco
Paper #8	Shravan Gaddam "Bridging Decentralized AI and Blockchain: Challenges and Solutions", Osmania University, Inde
Paper#	Maria Anurag Reddy Basani "Optimizing ETL Pipelines with AI: A Framework for Intelligent Data Integration", Texas A&M University-Corpus Christi, Corpus Christi, Texas, États-Unis
Paper # 10	Milind Cherukuri "WebChecker: A Versatile EVL Plugin for Validating HTML Pages with Bootstrap Frameworks", the University of North Texas, Denton, Texas
Paper # 11	Saad MAHMOUDI and Mohamed AMNAI  "A comparative study of different decentralized architectures for deploying federated learning models", Ibn Tofail University Kenitra, Morocco
Paper # 12	Rafsan Uddin Beg Rizan "Enhancing Potato Blemish Detection through Interactive Image Segmentation and Classification", Jessore University of Science and Technology, Bangladesh
Paper # 13	Lahcen Idouglid, Said Tkatek and Khalid Elfayq "Improving IIoT Security: Leveraging SMOTE and Recursive Feature Elimination for Effective Intrusion Detection", Ibn Tofail University Kenitra, Morocco
Paper # 14	Adil El Mane and Younes Chihab  "Blockchain-enabled Java Smart Contracts and IoT connectivity to revolutionize agricultural supply chain", Ibn Tofail University Kenitra, Morocco
Session 1 12H– 14H Room 3, EST	Topic 3: Image Processing, NLP, IA Modeling, Optimization, Cloud computing and others At Room 3, Higher School of Technology, from 09h30 - 11h00
Chairs	<b>Prof. Jaafar ABOUCHABAKA,</b> Faculty of Science, Ibn Tofail University, Morocco <b>Prof. Najat RAFALIA,</b> Faculty of Science, Ibn Tofail University, Morocco

Paper # 15	Abdelkrim SAOUABE, Said TKATEK and Hicham OUALLA "Optimizing Image Management with Content-Based", ", Ibn Tofail University kenitra, Morocco
Paper # 16	Hamza Ettakifi1 and Said Tkatek "Optimizing Long Short-Term Memory (LSTM) Networks with Particle Swarm Optimization (PSO) for Improved Brain Tumor Image Classification", Ibn Tofail University kenitra, Morocco
Paper # 17	Veera Atkuri "Balancing Accuracy and Safety in AI: A Novel Adversarial Training Approach", Aditya educational institutions,India
Paper # 18	HAMDAOUI ROBA "Hand Sign Recognition using Image Recognition", University Mohamed V, Rabat, Morocco
Paper # 19	Rafsan Uddin Beg Rizan "Advancing Image Segmentation and Classification with Mamba-Based Architectures", Jessore University of Science and Technology, Bangladesh
Paper # 20	Irshad A Buchh "A Comparative Study of Commit Validation Techniques in Continuous Integration Systems ", Oracle Corporation, USA
Paper # 21	Dahmani Rachid and Benammi Mohamed "upgrading slums using a convolutional neural network", Ibn Tofail University kenitra, Morocco
14h00 - 14h30	Lunch
Session 2 15h00 – 17h30 , Room 1, EST	Topic 1: Artificial Intelligence Applications: Healthcare, Agriculture, Economy  At Room 1, Higher School of Technology, from 11h30 - 13h00
Chairs	Prof. CHIHAB, EST, Ibn Tofail University, Morocco Prof. Adil EL MAKRANI, Faculty of Science, Ibn Tofail University, Morocco
Paper # 22	Abdur Rahman, Sanjana Nambia "ElectroAnalytica: A Comprehensive Analysis of Electricity Consumption, Rates, and Electric Vehicles Purchase across all US regions from 2016-2021", NYU Tandon School of Engineering, Brooklyn, New York

Paper # 23	Nisrine Boukhzer "Analyse des Critères de Qualité de services dans les Reseaux:Enjeux et perspectives", University Ibn Tofail, Kenitra, Morocco
Paper # 24	Tarik El Moudden, Mohamed Amnai, Ali Choukri, Youssef Fakhri, and Gherabi Noreddine "AI Analyzes the Relationship Between Comets and Seismic Activity Frequency", University Ibn Tofail, Kenitra, Morocco
Paper # 25	Idriss Moumen, Najat Rafalia and Jaafar Abouchabaka "Impact of Weather Dynamics on Long-Term Traffic Prediction Using a Graph Attention Informer Approach", University Ibn Tofail, Kenitra, Morocco

Session 2 15h00 – 17h30 , Room 2, EST	<b>Topic 2: Big Data Analytics and IoT Applications</b> At Room 2, Higher School of Technology, from 11h30 - 13h00
Chairs	<b>Prof. Abdelghani SOUHAR,</b> Faculty of Science, Ibn Tofail University, Morocco <b>Prof. Youssef FAKHRI</b> , Faculty of Science, Ibn Tofail University, Morocco
	Fatima Zahra Fri and Khalid Chougdali
Paper # 26	"Cyber Range Frameworks: Comparison of Cybersecurity Learning Methods", University Ibn Tofail, Kenitra, Morocco
	Aditi Vikas Narkar, Muhammed Tufayl Dalvi and Dr. Sujata Kadu
Paper # 27	"Smart Platform Connectivity Interface: Train detection and Distance prediction using IoT and Machine Learning", UG Scholar, Maharashtra, India
	JOUILIL Youness
Paper # 28	"Transitioning from Absolute to Relative Poverty", UH2, Morocco
	Maria Anurag Reddy Basani
Paper # 29	"Data engineering and ML for Real time fraud détection in financial Transactions", Corpus Christi, Texas, États-Unis
Paper # 30	Mohamed Elkhair, Mohamed Amnai, Ali Choukri, Youssef Fakhri and Noreddine
	Gherabi "Optimizing Data Migration from On-Premise to Google Cloud Platform: A Case Study", Research laboratory, Software Department, Ibn Tofail University Faculty of sciences, Morocco
Paper # 31	Idriss Moumen, Najat Rafalia and Jaafar Abouchabaka "Impact of Weather Dynamics on Long-Term Traffic Prediction Using a Graph Attention Informer Approach", University Ibn Tofail, Kenitra, Morocco

Session 2 15h00 – 17h30 , Room 2, EST	
Chairs	Prof. Adil EL MAKRANI, Faculty of Science, Ibn Tofail University, Morocco Prof. KHABID SIDATI, EST, Laayoune, Ibn Zohr University, Morocco
Paper # 32	So Rafsan Uddin Beg Rizan "Enhancing Edge Detection in Images Using Ant Colony Optimization", Jessore University of Science and Technology, Bangladesh
Paper # 33	Khalid El Fayq "Proactive Detection of Video Codec Incompatibility: Enhancing Television Broadcast Reliability with Machine Learning", Ibn Tofail University Kenitra, Morocco
Paper # 34	Mounir Maaitat "Application Of Noise Diffusion Image Generation Models In Climate Change Simulation And Ecosystem Restoration", Ibn Tofail University Kenitra, Morocco
Paper # 35	Loubna Salaheddine, Younes Chihab, Rabiaa Cheikh Maoulainine, and Soufiane Hajbi "Optimization of Fake News Detection Models: Random Forests and Naïve Bayes in Response to the Challenges of Automated Generators.", University Ibn Tofail, Kenitra, Morocco
Paper # 36	Mohamed ELKHAIR, Mohamed Amnai, Ali Choukri, Youssef Fakhri and Gherabi Noreddine "Optimizing Data Migration from On-Premise to Google Cloud Platform: A Case Study", Ibn Tofail University Kenitra, Morocco
Paper # 37	Kartik Gupta "Drift Detection on Embeddings: An Empirical Study Using Pre-trained Classifiers", the University of California, Berkeley, California.
Paper # 38	Kartik Gupta "Comparative Analysis of Encoder-Based and Decoder-Based Architectures for Automatic Conspiracy Theory Identification", the University of California, Berkeley, California
Paper # 39	Fadila Lazar, "The impact of change management on human ressources management in the era of crisis case of moroccan companies", University moulay Ismail, Meknes

Paper # 40	Fatima Ezzahra Khalloufi 1 , Najat Rafalia 1 , Jaafar Abouchabaka Drivers Distraction Detection using Convolutional Neural Network for Intelligent Cars <i>Ibn Tofail University, Kenitra, Morocco</i>
13h00 - 14h00	Lunch
11h00- 11h30	Coffee Break

11h30 - 12h30	Recommendation and Closing of the conference (at Higher School of Technology, Laayoune)
	<ul> <li>Prof. Idrissi Hamid RGUIBI, Higher School of Technology, Laayoune, Morocco</li> <li>Prof. Said TKATEK, Faculty of Science, Ibn Tofail University, Morocco</li> <li>Prof. Youssef FAKHRI, LaRI Director, Faculty of Science, Ibn Tofail University, Morocco</li> </ul>
13h30 - 14h30	Lunch