

## IWBDIA'23 DETAILED PROGRAM

08h30 - 09h00		Mai 11, 2023	
		Reception and registration of participants	
09h00 - 10h00		Official opening of the Workshop	
		<p><b>Prof. Mohamed Larbi KERKEB</b> - President of Ibn Tofail University, Morocco <b>Prof. Mohamed EBN TOUHAMI</b> - Dean of Faculty of Science, Morocco <b>Prof. Said TKATEK</b> - General Chair of IWBDIA'23, Faculty of Science, Morocco <b>Prof. Jaafar ABOUCHABAKA</b> - General Chair of IWBDIA'23, Faculty of Science, Morocco <b>Prof. Youssef FAKHRI</b> - LaRI Director, Faculty of Science, Morocco</p>	
10h00 - 10h30		Coffee Break	
10h30 - 13h00		Keynote Speakers Session ( <i>University Amphitheatre</i> )	
		<p><b>Speaker 1: Prof. Mohamed Essaïdi</b>, President Director of EMSI Group, Morocco <i>Topic 1 : Smart Homes and Cities</i></p> <p><b>Speaker 2: Prof. Mohamed Quafafou</b>, Aix-Marseille University, France <i>Topic 2 : Diversity in Human-AI Collaboration</i></p> <p><b>Speaker 3: Prof Othman ABDOUN</b>, Faculty of science Tetouan, Morocco <i>Topic3 : Artificial intelligence and IoT Application</i></p> <p><u>Chairs</u> <b>Prof. Said TKATEK</b>, Faculty of Science, Ibn Tofail University <b>Prof. Jaaar ABOUCHABAKA</b>, Faculty of Science, Ibn Tofail University</p>	
13h00 - 14h00		Lunch	
ORAL SESSIONS			
Oral Session 1		<i>Artificial Intelligence applications (Healthcare, Agriculture, Environment, Education, Industry, Economy ....)</i> <i>At Room Polyvalente of FSK from 14h00 to 15h45</i>	
Chairs		Prof. Mohamed AMNAI, Faculty of Science, Ibn Tofail University Prof. Ali CHOUKRI, Faculty of Science, Ibn Tofail University	
Paper # 1		Zakaria Al Bakkari, Adil El Makrani and Ikram El Azami <i>"Forecasting Stock market index Using a Hybrid Model LSTM-CNN with Attention Mechanism"</i>	
Paper # 2		Bouchra El Jgham, Otman Abdoun and Haimoudi El Khatir <i>"Smart greenhouses and their incorporating with artificial intelligence technology as the path towards precision agriculture"</i>	

Paper # 3	Karjout Abdeslam and Tkatek Said <b><i>"Improved Early Prediction of Type 2 Diabetes using Machine Learning Algorithms"</i></b>
Paper # 4	Zakaria Enneffah, Youssef Fakhri and Siham Boulaknadel <b><i>"OCR and Semantic Indexing, Approaches and Models for Efficient Research, Application for Enhancing the Value of Handwritten Archival Heritage"</i></b>
Paper # 5	Meryem Cherif, Fatima Zahrae El Bekkali, Mohammed Tounm <b><i>"Predictive modelisation of kiln cooler process"</i></b>
Paper # 6	Idriss Moumen, Jaafar Abouchabaka and Najat Rafalia <b><i>"Exploring Predictive Analytics through Data Mining Techniques in the Internet of Vehicles"</i></b>
Paper # 7	Lhoussaine El Mezouary <b><i>"Predicting the groundwater reservoir geometry based on geospatial parameters: a supervised machine learning approach"</i></b>
Paper # 8	Safae Mrabet and Said Tkatek <b><i>"A prediction Approach for Detection Plant Diseases Using Convolutional Neural Networks and Genetic Algorithm"</i></b>
Oral Session 2	<b><i>Big Data Analytics and IoT Applications</i></b> At Seminar Room in Computer Science Department from 14h00 to 15h45
Chairs	<b>Prof. Najat RAFALIA</b> , Faculty of Science, Ibn Tofail University <b>Prof. Khadija LOUZAoui</b> , Faculty of Science, Ibn Tofail University
Paper # 9	Abderrahman Laabidi, Said Tkatek and Mohamed Ouhssine <b><i>"Intelligent Beekeeping Monitoring System Based on IoT and Machine Learning"</i></b>
Paper # 10	Harmach Fatima zahraa and Youssef Fakhri <b><i>"Integration of the Cloud in the IoT and its new application scenarios"</i></b>
Paper # 11	Fatima zahrae Saber, Mohamed Amnai, Ali Choukri and Abderrahim Waga <b><i>"Optimization of record linkage approaches in Big Data"</i></b>
Paper # 12	Amina Bouguessa and Najat Rafalia <b><i>"Exploring the Significance of Big Data and Cloud Computing in Various Industries: Challenges and Solutions for Efficient Processing"</i></b>
Paper # 13	Ridouane Tachicart and Karim Bouzoubaa <b><i>"Lexicon Creation in the Era of Big Data and Artificial Intelligence: Challenges, Best Practices, and Case Study of the Moroccan Arabic"</i></b>
Paper # 14	Salah Eddine Hebabaze, Mohamed El Ghmary, Hamid El Bouabidi and Sara Maftah <b><i>"Comparative Analysis of Apache Spark and Hadoop for Big Data Processing: Micro-Benchmarks and Machine Learning Workloads"</i></b>
Paper # 15	Belhaj Omaima Essaad and Boukhal Hamid <b><i>"How Big Data Analytics helps ensure worker safety at nuclear sites"</i></b>
Paper # 16	Salahiddine Chouiba, Asmae Bentaleb and Jaafar Abouchabaka <b><i>"Internet of Things (IoT) for Intelligent Healthcare"</i></b>
Paper # 17	Zakariae Dlimi, Said Ben Alla and Abdellah Ezzati <b><i>"Integrating Blockchain Technology with IoT Devices for Securing Mobile Applications"</i></b>

<b>Oral Session 3</b> <i><b>Image Processing, NLP, IA Modeling, Optimization, Cloud and others</b></i> <i>At Meeting Room in Biology Department from 14h00 to 15h45</i>	
<b>Chairs</b>	<b>Prof. Youssef FAKHRI</b> , Faculty of Science, Ibn Tofail University <b>Prof. Adil EL MAKRANI</b> , Faculty of Science, Ibn Tofail University
Paper # 18	Sara OUAJKA and Aicha EL ALAOUI <b>"Education is a right for all children with disabilities based on Collected Data Analysis"</b>
Paper # 19	Nezha Nacer, Samia Rkha, Najat El Fatimi and Nadia Ouzennou <b>"Prevalence of syphilis and human immunodeficiency virus infection among women of reproductive age in Morocco"</b>
Paper # 20	Khalid El Fayq, Said Tkatek, and Lahcen Idougild <b>"Predicting the Success of TV Programs Using Machine Learning"</b>
Paper # 21	Hassan Yakkou, Nacereddine Elkadri Elyamani, Abdelhakim Chillali and Aziz Taoussi <b>"The impact of the integration of simulation sequences of learning and motivation on secondary school students in Morocco"</b>
Paper # 22	Nouridine Herbaz, Hassan El Idrissi and Abdelmajid Badri <b>"Detection and Recognition of Arabic Sign Language Alphabets at different locations using Convolutional Neural Networks"</b>
Paper # 23	Hassan Yakkou, Nacereddine Elkadri Elyamani, Abdelhakim Chillali and Aziz Taoussi <b>"The impact of the integration of simulation sequences of learning and motivation on secondary school students in Morocco"</b>
Paper # 24	Abdelillah Semma, Said Lazrak and Yaâcoub Hannad <b>"Writer Retrieval approach using Encoding of LBP Histograms with Shi-Tomasi Keypoints"</b>
<b>15h45 - 16h15</b> <b>Coffee Break</b>	
<b>Oral Session 4</b> <i><b>Artificial Intelligence Applications</b></i> <i><b>(Healthcare, Agriculture, Environment, Education, Industry, Economy ....)</b></i> <i>At Room Polyvalente of FSK from 16h15 to 17h45</i>	
<b>Chairs</b>	<b>Prof. Farah ABDOUN</b> , ENSAM, Mohammed V University <b>Prof. Ayoub ELAMRANI</b> , Faculty of Science, Ibn Tofail University
Paper # 25	Fouad Daidai and Larbi Tamnine <b>"Artificial Intelligence: what opportunities for the financial services of Moroccan companies"</b>
Paper # 26	Hanane Lyarfi, Nouredine Motaki and Mostafa Derrhi <b>"The Use of Artificial Intelligence in ERP Project Life Cycle Optimization"</b>
Paper # 27	Mouad CHOUKHAIRI, Youssef FAKHRI and Mohamed AMNAI <b>"Detection of Anomalous Network Activity in IoT Environment with Machine Learning and Deep Learning Models"</b>
Paper # 28	Samar Amassmir, Said Tkatek and Jaafar Abouchabaka <b>"A comparative study of feature selection methods for optimizing machine learning algorithms in precision agriculture"</b>
Paper # 29	Hamza Ettakifi and Said Tkatek <b>"A hybrid Approach Sing Convolutional Neural Networks and Genetic Algorithm to Improve of Sensing Brain Tumor Prediction"</b>

Paper # 30	Mohammed Bouasabah <b>"Stochastic modelling and linear regression as a technical indicator for short-term trading decision in the NASDAQ market"</b>
Paper # 31	Soukaina Samhale, Khadija Louzaoui and Khalid Benlhachmi <b>"Sensors and Machine Learning Algorithms for the Gesture Recognition Systems: A Comprehensive Review"</b>
Paper # 32	Houda Belaabed, Asmae Bentaleb and Jaafar Abouchabaka <b>"New Approach for DDoS Attacks Detection: ConvXGB"</b>
<b>Oral Session 5</b>	<b><i>Big Data Analytics and IoT Applications</i></b> <i>At Seminar Room in Computer Science Department from 16h15 to 17h45</i>
<b>Chairs</b>	<b>Prof. Abdelalim SADIOQ</b> , Faculty of Science, Ibn Tofail University <b>Prof. Khalil IBRAHIMI</b> , Faculty of Science, Ibn Tofail University
Paper # 33	Musa Mustapha and Maha Gmira <b>"Forecasting Reference Evapotranspiration Using LSTM and Transformer"</b>
Paper # 34	Brahim Maazouzi and Said Tkatek <b>"Big Data and Data Science and their Applications in active sectors: public finance"</b>
Paper # 35	Abdellatif Kichna and Abderrazak Farchane <b>"Code-Based Cryptography for Scalable and Secure Big Data Analytics "</b>
Paper # 36	Azzeddine Idhmad, Mohammed Kaicer and Jihane Alami Chentoufi <b>"Credit Scoring Based on Support Vector Machine (Svm) for Banking Datasets"</b>
Paper # 37	Lahcen Idougli, Said Tkatek, Khalid Elfayq and Jaafar Abouchabaka <b>"A Novel Proposed Anomaly Detection Model For Industrial Internet of Things (IoT) using Machine Learning Techniques"</b>
Paper # 38	Sara TAHIRI, Youssef Fakhri and Mohamed Amnai <b>"Big Data and Internet of Things (IoT) Technologies in Higher Education: Enhancing the Educational Process and Overcoming Challenges"</b>
Paper # 39	Youssef Skouf, Said Tkatek and Jaafar Abouchabaka <b>"A Gene Prediction Approaches Based on Gene Sequences and Gene Expression Data"</b>
Paper # 40	Salim Salmi and Oughdir Lahcen <b>"Uncovering Application Layer DDoS Attacks with Machine Learning: An Automated Detection Approach"</b>
<b>Oral Session 6</b>	<b><i>Image Processing, NLP, IA Modeling, Optimization, Cloud and others</i></b> <i>At Meeting Room in Biology Department from 16h15 to 17h45</i>
<b>Chairs</b>	<b>Prof. Mounir AIT KERROUM</b> , ENCG, Ibn Tofail University <b>Prof. Ouadoudi ZYTOUNE</b> , ENSA, Ibn Tofail University
Paper # 41	Loubna Khalil and Zineb Serhier <b>"Unified Theory of Acceptance and Use of Technology (UTAUT) model for understanding mental healthcare using e-health services"</b>
Paper # 42	Abderrahim El Yazzaoui, Amina Kharchaf and Abdelaali Rahmouni <b>"Monte Carlo dosimetric characterization of the VariSource VS2000 HDR 192Ir brachytherapy source"</b>
Paper # 43	Youssra El Idrissi El-Bouzaidi and Otman Abdoun <b>"Exploring the Potential of Deep Learning Models for Accurate Skin Lesion: A Comparative Analysis of Performance and the Role of AI in Improving Dermatological Practice"</b>

Paper # 44	Abdelaali Kemmou, Adil El Makrani, Ikram El Azami and Moulay Hafid Aabidi <b><i>"Optic flow reconstruction for automatic facial expression recognition in presence of partial occlusions"</i></b>
Paper # 45	Hajar Belrhiti, Fatoumata D.S Diassana and M.Toum Benchekroun <b><i>"Petcoke Mill Process Prediction"</i></b>
Paper # 46	Imane Bouchnafa and Mohamed Amnai <b><i>"Transfer Learning for Convolutional Neural Networks : A Survey of Methods and Applications"</i></b>
Paper # 47	Fakhri El Arabi Boualou and Farid Zahi <b><i>"Society digitization: towards a digital sociology"</i></b>
Paper # 48	Nohaila Mziguel, Mohamed Amnai and Said Tkatek <b><i>"Image processing for profiling user personality"</i></b>
<b>Oral Session 7</b>	<b><i>Virtual Session for International PhD Students</i></b> <b><i>All Topics</i></b> <i>At Seminar meeting in Computer Science Department from 15h00 to 17h45</i>
<b>Chairs</b>	<b>Prof. Otman ABDOUN</b> , Faculty of Science, Abdelmalk Essadi University <b>Dr. Idriss MOUMEN</b> , Faculty of Science, Ibn Tofail University
Paper # 49	Sami Ud Din, Muhammad Sohail and Fang Han <b><i>"Fire Classification using Attention-based Deep-CNN in digital Images"</i></b>
Paper # 50	Abdelkrim Saouabe, Said Tkatek, Merouane Mazar and Imad Mourtaji <b><i>"Survey of Image Indexing Methods for Efficient Image Retrieval"</i></b>
Paper # 51	Shravya Sharan, Arpita Muleva and K Moorthi <b><i>"Human Activity Recognition in Video Surveillance"</i></b>
Paper # 52	Shrikant Sonekar, Vidhya Nimje, Ekta Paraswani, Vinita Larokar and Krushna Malthankar <b><i>"IoT Based Covid-19 Patient Monitoring System: A Review"</i></b>
Paper # 53	Abdallah Yousef Mohammad Aldaher, Salah S. Al-Thyabat, Gangfeng Tan, Muhammad Usman Shoukat and Ebaa Khaled Mohammed Matar <b><i>"Model of Parabolic Trough Collector Structure for Local Heating and Air Conditioning"</i></b>
Paper # 54	Rahat Izhar and Shahid Nazir Bhatti <b><i>"Hybrid Modelling Prototype for the Requirements Prioritization in Agile"</i></b>
Paper # 55	Muhammad Imtiaz, Muhammad Usman Shoukat, Hafiz Kiakhur Sarkhail, Abid Hussain, Muhammad Waqas Akbar and Khurram Rasheed <b><i>"Real-Time Object Detection based on single-shot detector algorithm"</i></b>
Paper # 56	Yasmin Mohialden and Nadia Hussien <b><i>"A Review of Recent Popular Deep Learning Packages"</i></b>
Paper # 57	Khadija Shoukat, Min Jian, Shakeel Ahmed, Muhammad Hamza, Muhammad Umar and Muhammad Usman Shoukat <b><i>"From Big Data to Intelligent Medicine: The Role of Digital Technology in Pharma 4.0"</i></b>
Paper # 58	Atif Ali <b><i>"A Framework of Decision Support System For Effective Resource Management"</i></b>
<b>17h45 - 18h15</b>	<b>Closing of IWBDIA'23 (Room Polyvalente of FSK)</b> <b><u>Chairs</u></b> <b>Prof. Said TKATEK</b> , Faculty of Science, Ibn Tofail University <b>Prof. Jaaar ABOUCHABAKA</b> , Faculty of Science, Ibn Tofail University <b>Prof. Youssef FAKHRI</b> , LaRI Director, Faculty of Science, Ibn Tofail University