



**PROGRAM**

**1<sup>ST</sup> EDITION 2025**

**OF INTERNATIONAL CONFERENCE ON  
INNOVATIVE APPROACHES  
AND APPLICATIONS FOR SUSTAINABLE  
DEVELOPMENT**

**I2ASD CONFERENCE**

**20  
25**

**APRIL**

**17 - 19**

**ENS OF MEKNES  
MOROCCO**

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## I2ASD 2025 – Conference Program Summary

17-19 April 2025, ENS of Meknes, Morocco

*International Conference on Innovative Approaches and Applications for Sustainable Development*

### Thursday, 17 April 2025

Time (GMT+1)	Activity	Place
08:00-09:00 (AM)	Registration	Hall
09:00-10:00 (AM)	Opening Ceremony	Auditorium
10:00-10:30 (AM)	Coffee Break	Meeting Foyer
10:30-12:00 (AM)	Keynote Speaker 1	Auditorium
1:00 (PM)	LUNCH	Meeting Foyer
2:30-3:30 (PM)	Keynote Speaker 2	Auditorium
4:00-4:30 (PM)	Coffee Break	Meeting Foyer
Parallel Sessions : ON-SITE (4:30-6:30 (PM))		
From 4:30 PM	I2ASD-S01: AI for Education, Work, and Society	Auditorium
From 4:30 PM	I2ASD-S02: AI for Sustainable Development and Agriculture	Room B2
From 4:30 PM	I2ASD-S03: AI for Healthcare, Social Good, and Ethics	Room B4
From 4:30 PM	I2ASD-S04: AI for Industry, Security, and Explainability	Room B5

### Friday, 18 April 2025

Time (GMT+1)	Activity	Place
08:00-09:00 (AM)	Registration	Hall
9:00-10:00 (AM)	Keynote Speaker 3	Auditorium
10:00-10:30 (AM)	Coffee Break	Meeting Foyer
10:30-01:00 (PM)	Workshop 1 : Research Publication Pathway	Auditorium
02:00 (PM)	LUNCH	Meeting Foyer
2:45-4:00 PM	Workshop 2 : Research Publication Pathway	Auditorium
4:00-4:30 (PM)	Coffee Break	Meeting Foyer
Parallel Sessions : ON-SITE (4:30-6:30 (PM))		
From 4:30 PM	I2ASD-S05: AI for Education, Work, and Society	Auditorium
From 4:30 PM	I2ASD-S06: AI for Sustainable Development and Agriculture	Room B4
From 4:30 PM	I2ASD-S07: AI for Healthcare, Social Good, and Ethics	Room B5
From 4:30 PM	I2ASD-S08: AI for Industry, Security, and Explainability	Room B6
Parallel Sessions : ONLINE (4:30-6:30 (PM))		
From 4:30 PM	I2ASD-S09: AI for Education, Work, and Society	Online
From 4:30 PM	I2ASD-S10: AI for Sustainable Development and Agriculture	Online
From 4:30 PM	I2ASD-S11: AI for Healthcare	Online
From 4:30 PM	I2ASD-S12: AI for Social Good, and Ethics	Online
From 4:30 PM	I2ASD-S13: AI for Finance, Networking and Security	Online
From 4:30 PM	I2ASD-S14: AI for Smart Systems and Urban Development	Online

### Saturday, 19 April 2025

Time (GMT+1)	Activity	Place
9:00-12:00 AM	Workshop 3 : AI/ML/DL Fundamentals	Online
Parallel Sessions : ONLINE (4:30-6:30 (PM))		
09:30-12:30 (AM)	I2ASD-S15: Digital Transformation	Online
09:30-12:10 (AM)	I2ASD-S16: Generative AI and LLMs	Online
09:30-12:50 (AM)	I2ASD-S17: AI for Education, Work, and Society	Online
09:30-12:50 (AM)	I2ASD-S18: AI for Sustainable Development and Agriculture	Online
09:30-12:30 (AM)	I2ASD-S19: AI for Healthcare	Online
09:30-12:30 (AM)	I2ASD-S20: AI for Finance, Networking and Security	Online

## I2ASD 2025 – Detailed Conference Program

17-19 April 2025, ENS of Meknes, Morocco

International Conference on Innovative Approaches and Applications for Sustainable  
Development

### Thursday, 17 April 2025

Time (GMT+1)	Activity	Place
08:00-09:00 (AM)	Registration	Hall
09:00-10:00 (AM)	<b>Opening Ceremony</b>	Auditorium
10:00-10:30 (AM)	<b>Coffee Break</b>	Meeting Foyer
<b>Keynote Speaker 1</b>		
10:30-12:00 (AM)	Responsible AI adoption for a sustainable future: balancing opportunities and risks <i>Pr Anastasiya Nikiforova (Estonia)</i> <i>Session moderated by Prof. Mostafa MERRAS (ESTM, UMI, Morocco)</i>	Auditorium
01:00 (PM)	<b>LUNCH</b>	Meeting Foyer
<b>Keynote Speaker 2</b>		
2:30-3:30 (PM)	Intelligent Fusion: Redefining Perception and Decision-Making with IoT, AI, and Computer Vision <i>Pr Ahmed A. Elngar (Egypt)</i> <i>Session moderated by Prof. Abdelaziz HESSANE (FS, UMI, Morocco)</i>	Auditorium
4:00-4:30 (PM)	<b>Coffee Break</b>	Meeting Foyer
<b>Parallel Sessions : ON-SITE (4:30-6:30 (PM))</b>		
<b>I2ASD-S01 : AI for Education, Work, and Society</b>		
<i>Session moderated by Pr. Samir El Kaddouhi / Pr. Yousef Farhaoui / Pr. Moulay Driss El ouadghiri</i>		
From 4:30 PM	<b>Paper_Id.291 : Enhancing Digital Competencies Among Teacher Trainers in Morocco: A Cluster Analysis Approach</b> <i>Authors:</i> BENAOU Ahmed, EL YOUSSEFI Ahmed and FARHAOUI Yousef	Auditorium
From 4:30 PM	<b>Paper_Id.285 : A Deep Learning Approach to Bank Term Deposit Prediction Using Teacher-Student Feature Selection and Stacked Models</b> <i>Authors:</i> Meryem Saket, Hayat Sahlaoui, Mohamed Lkhalidi, Hicham Moussaid, Abdi Youssouf Hamze, El Arbi Abdellaoui Alaoui, and Mostafa Merras	Auditorium
From 4:30 PM	<b>Paper_Id.212 : Sustainable Integration of Digital Tools: A Study of Future Teachers' Epistemological Beliefs</b> <i>Authors:</i> Ou-sekou Youssef, Abdelkarim Zaid and Fatiha Kaddari	Auditorium
From 4:30 PM	<b>Paper_Id.54 : Transforming Education: Utilizing AI to create Personalized Learning Experience for University Students</b> <i>Authors:</i> Khoudri insaf	Auditorium
From 4:30 PM	<b>Paper_Id.167 : Literature review and analysis of artificial intelligence for sustainable skills development</b> <i>Authors:</i> Oussama Dardary	Auditorium
<b>I2ASD-S02 : AI for Sustainable Development and Agriculture</b>		
<i>Session moderated by Pr. Ayoub Nouaiti / Pr. Youssef Elhaoui / Pr. Saïd Agoujil</i>		
From 4:30 PM	<b>Paper_Id.14 : Hybrid Framework for Infrared Defect Detection in Photovoltaic Panels Using Convolutional Neural Networks and Machine Learning Classifiers</b> <i>Authors:</i> El Yazidi Abdelaziz, Hanine Abdessami, KASRI Mohammed, Hankar Mustapha and Beni.Hssane Abderrahim	Room B2

From 4:30 PM	<p><b>Paper_Id.292 : Artificial Intelligence for Green Hydrogen Production Optimization: A Systematic Review of Morocco's Research Landscape and Future Perspectives</b></p> <p><i>Authors:</i> Jennane Ikrame, Farhaoui Yousef and BOUTAHIR Mohamed Khalifa</p>	Room B2
From 4:30 PM	<p><b>Paper_Id.180 : Multistage Optimization of Piezoelectric Energy Harvesting in Intelligent Vehicles</b></p> <p><i>Authors:</i> Ghalim Nidal, Touairi Souad, Ouaomar Hanaa and Kouider Nourreidine</p>	Room B2
From 4:30 PM	<p><b>Paper_Id.141 : Numerical Simulation of Heat Generation in an 18650 Lithium-Ion Battery Cell</b></p> <p><i>Authors:</i> EL YASSINI Hajar, Oufaska Kenza, EL YASSINI Khalid and Bannari Rachid</p>	Room B2
From 4:30 PM	<p><b>Paper_Id.77 : Design of Microgrid with Renewable Energy Sources and Energy Storage System: A Case Study</b></p> <p><i>Authors:</i> Ayoubi Mohamed, Yessef Mourad, Chaibi Yassine, Merras Mostafa and Chalh Zakaria</p>	Room B2
<b>I2ASD-S03 : AI for Healthcare, Social Good, and Ethics</b>		
<i>Session moderated by Pr. Amine Sallah / Pr. Brahim Bakkas / Pr. Zennou Hmad</i>		
From 4:30 PM	<p><b>Paper_Id.221 : A Hybrid Approach for Feature and Instance Selection Using Fuzzy Relations</b></p> <p><i>Authors:</i> Khaldoun Zineb, Chamlal Hasna and Ouaderhman Tayeb</p>	Room B4
From 4:30 PM	<p><b>Paper_Id.207 : The Effect of Resampling Techniques on Arabic Medical Question Categorization.</b></p> <p><i>Authors:</i> Bahbib Mohammed</p>	Room B4
From 4:30 PM	<p><b>Paper_Id.177 : Ensemble Learning for 3D Brain Tumor Segmentation Using Deep Learning Techniques on the BraTS Dataset</b></p> <p><i>Authors:</i> BELKAID Maryem, MAALI Abir, MERRAS Mostafa, BERRAJAA Achraf and ABDELLAOUI ALAOUI El Arbi</p>	Room B4
From 4:30 PM	<p><b>Paper_Id.187 : Image Denoising Using a Genetic Algorithm-Optimized Non-local Means Filter</b></p> <p><i>Authors:</i> Benoudi Rachid, Qaraai Youssef and Ouhda Mohamed</p>	Room B4
From 4:30 PM	<p><b>Paper_Id.250 : Deep Imitation Learning and Transformer-Based Perception for Monocular Visual Navigation in Autonomous Mobile Robots</b></p> <p><i>Authors:</i> Ahmed Rezagui, Said BENHLIMA, Ali BEKRI, Younes BENHOURIA, Slimane OMARI</p>	Room B4
<b>I2ASD-S04 : AI for Industry, Security, and Explainability</b>		
<i>Session moderated by Pr. Mohamed Khalifa Boutahir / Pr. Ait Khellou Mustafa / Pr. Imad Zeroual</i>		
From 4:30 PM	<p><b>Paper_Id.138 : Advances in Identity and Access Management for Secure Internet of Things Applications</b></p> <p><i>Authors:</i> ESSAFI Soukaina, EL-YAHYAOUI Ahmed and OUACHA Ali</p>	Room B5
From 4:30 PM	<p><b>Paper_Id.47 : Keystroke Dynamics and Machine Learning for Enhanced Cybersecurity in Authentication Systems</b></p> <p><i>Authors:</i> jaha farida, KARTIT ALI and Fertat mohamed</p>	Room B5
From 4:30 PM	<p><b>Paper_Id.205 : Parameter-Efficient Fine-tuning of BLIP2 for Arabic Question Answering on Real-World Images</b></p> <p><i>Authors:</i> KHENCHOUCH Mohamed, Ounachad Walid, Zeroual Imad and El kah Anoual</p>	Room B5

From 4:30 PM	<p><b>Paper_Id_288 :</b> Leveraging Swarm Intelligence to Optimize Feature Selection in Credit Card Fraud Detection</p> <p><b>Authors:</b> Hayat Sahlaoui, Meryem Saket, Abdelati Oualla, Amine Sallah, Abdelaaziz Hessane, and Mostafa Merras</p>	Room B5
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## Innovative Approaches and Applications for Sustainable Development

## Friday, 18 April 2025

Time (GMT+1)	Activity	Place
08:00-09:00 (AM)	Registration	Hall
<b>Keynote Speaker 3</b>		
9:00-10:00 (AM)	The Era of LLMs <i>Pr Imad Zeroual (FSTE-UMI, Morocco)</i> <i>Session moderated by Prof. Youssef Ous-sekkou</i>	Auditorium
10:00-10:30 (AM)	Coffee Break	Meeting Foyer
<b>Workshop 1 : Research Publication Pathway</b>		
10:30-1:00 (AM)	Research Publication Pathway : Latex <i>Dr chaimae chekira (FS-UMI, Meknes)</i> <i>Session moderated by Prof.</i>	Room B0
02:00 (PM)	LUNCH	Meeting Foyer
<b>Workshop 2 : Research Excellence Workshop</b>		
2:45- 4:00 (PM)	Title : Research Publication Pathway <i>Presented by : Pr. Cédric Stéphane K.T</i> <i>Session moderated by : Prof Youssef Oussekkou /Prof Youssef Elthauoui</i>	Auditorium
4:00-4:30 (PM)	Coffee Break	Meeting Foyer
<b>Parallel Sessions : ON-SITE (4:30-6:30 (PM))</b>		
<b>I2ASD-S05: AI for Education, Work, and Society</b>		
<i>Session moderated by Pr. Chadia Qotni / Pr. Cédric Stéphane K.T, Pr. Siham Aouissi</i>		
From 4:30 PM	<b>Paper_Id_142 : Exploring Learners' Awareness of AI-Powered Tools Impact on Critical Thinking</b> <i>Authors: Biboussi El Mostafa and Hmouri Zaid</i>	Auditorium
From 4:30 PM	<b>Paper_Id_127 : Artificial intelligence in Higher Education and Scientific Research: Trends and Future Perspectives through Bibliometric Analysis</b> <i>Authors: RHASSATE Imane and AMROUS Naila</i>	Auditorium
From 4:30 PM	<b>Paper_Id_114 : Impact of Educational Robotics Compared to Simulations on Middle School Students' Motivation in Physical Sciences: An Experimental Study in Morocco</b> <i>Authors: OMARI Slimane, Abdellaoui Alaoui El Arbi and Regragui Ahmed</i>	Auditorium
From 4:30 PM	<b>Paper_Id_116 : The digital transformation of Moroccan universities: A comparative analysis of artificial intelligence adoptions</b> <i>Authors: EL KORCHI Nasreddine</i>	Auditorium
From 4:30 PM	<b>Paper_Id_174 : Single-Objective Optimization for Image Spam Detection Using Supervised Learning and Bayesian Hyperparameter Tuning</b> <i>Authors: Filali Adnane</i>	Auditorium
From 4:30 PM	<b>Paper_Id_247 : User Experience and Usability for Computerized Maintenance Management System in the era of AI</b> <i>Authors: NAJI Amal AND BEIDOURI Zitouni</i>	Auditorium
<b>I2ASD-S06 : AI for Sustainable Development and Agriculture</b>		
<i>Session moderated by Pr. Oussama Dardary / Pr. Youssef Qaraai / Pr. Saïd Agoujil</i>		
From 4:30 PM	<b>Paper_Id_209 : Intelligent Fault Detection in Precision Agriculture: A Comparative Study of Machine Learning Models in Wireless Sensor Networks.</b> <i>Authors: AITAMAR Yassine and El Abbadi Jamal</i>	Room B4

From 4:30 PM	<p><b>Paper_Id_119 :</b> The Impact of Data Balancing through Data Generation Techniques on Improving Deep Learning Model Performance: A Case Study on Olive Tree Disease Classification</p> <p><b>Authors:</b> El Akhal Hicham, Ben Yahya Aissa and El Belrhiti El Alaoui Abdelbaki</p>	Room B4
From 4:30 PM	<p><b>Paper_Id_115 :</b> Different AI methods applied in precision irrigation</p> <p><b>Authors:</b> el baz oumaïma, Ziti Soumia and Hajjaji Souad</p>	Room B4
From 4:30 PM	<p><b>Paper_Id_149 :</b> AI-Powered Frameworks for Sustainable Disaster Management: Bridging Technology and Resilience</p> <p><b>Authors:</b> mastir mohamed, Dahbi Ali and El-Hami Khalil</p>	Room B4
From 4:30 PM	<p><b>Paper_Id_143:</b> Using social marketing to promote water conservation: A Systematic Review</p> <p><b>Authors:</b> ZINEB FATHALLAH, ABLA BERRADA and HAMZA CHEKKOUR</p>	Room B4
<b>I2ASD-S07 : AI for Healthcare, Social Good, and Ethics</b>		
<i>Session moderated by Pr. Ahmad El Allaoui / Pr. Ilham El Ouariachi / Pr. Moulay Driss El uadghiri</i>		
From 4:30 PM	<p><b>Paper_Id_274 :</b> Optimizing Hybrid Recommender Systems: Integrating Collaborative Filtering Content-Based Filtering and Semantic Similarity with FAISS</p> <p><b>Authors:</b> hamidi charaf, Badiy Mohamed, Hessane Abdelaziz, Aiouej Hind and Gaou Salma</p>	Room B5
From 4:30 PM	<p><b>Paper_Id_194 :</b> CharNet-Hybrid: An Improved CNN-SVM Approach for Recognizing Handwritten Characters</p> <p><b>Authors:</b> Mohamed Rida Fethi, Othmane Farhaoui, Ali Omari Alaoui, Imad Zeroual and Ahmad El Allaoui</p>	Room B5
From 4:30 PM	<p><b>Paper_Id_193 :</b> Arabic Handwritten Character Recognition: Comparative Performance of Advanced Pre-trained CNN Models</p> <p><b>Authors:</b> Othmane Farhaoui, Mohamed Rida Fethi, Ali Omari Alaoui, Imad Zeroual and Ahmad El Allaoui</p>	Room B5
From 4:30 PM	<p><b>Paper_Id_213 :</b> Ethical AI for Sustainable Education: Addressing Equity Privacy and Systemic Challenges in AI-Driven Learning</p> <p><b>Authors:</b> Ou-sekou Youssef and oussama Dardary</p>	Room B5
From 4:30 PM	<p><b>Paper_Id_94 :</b> Reconciling Technological Innovation and Human Values: Ethical Reflections on Artificial Intelligence</p> <p><b>Authors:</b> Warka Hassan, Hayat El Boukhari</p>	Room B5
<b>I2ASD-S08 : AI for Industry, Security, and Explainability</b>		
<i>Session moderated by Pr. Yousef Farhaoui / Pr. Ed-drissiya El-allaly / Pr. Khaoula Benmoussa</i>		
From 4:30 PM	<p><b>Paper_Id_287 :</b> Tree-Based XAI for an Efficient and Transparent Model in Predicting Bank Term Deposit Subscriptions</p> <p><b>Authors:</b> Hayat Sahlaoui, Asmae Laaroussi, Houda Assbai, Amine Sallah and Abdelaziz Hessane</p>	Room B6
From 4:30 PM	<p><b>Paper_Id_286 :</b> Bank Term Deposit Subscriptions Prediction: An explainable AI (XAI) Framework using InterpretML</p> <p><b>Authors:</b> Hayat Sahlaoui, Rim Ouada, Wissal M'hamedi, Khadija Elabboui, Amine Sallah and Abdelaziz Hessane.</p>	Room B6
From 4:30 PM	<p><b>Paper_Id_270:</b> Lightweight Convolutional Neural Network for Semantic Segmentation of Pavement Degradations</p> <p><b>Authors:</b> Omar KNNOU, Saïd Agoujil, Youssef Qaraai, ElArbi ABDELLAOUI ALAOUI</p>	Room B6
From 4:30 PM	<p><b>Paper_Id_15 :</b> Improving OCR Performance in Smartphone-Captured Images: A Comparative Study of GRU and LSTM Approaches</p> <p><b>Authors:</b> Khiat Amina, KASRI Mohammed and Beni-Hssane Abderrahim</p>	Room B6

From 4:30 PM	<p><b>Paper_Id_280 : Optimizing Customer Churn Prediction: An Analysis of Sampling Techniques' Impact on Machine Learning Algorithm Performance</b></p> <p><i>Authors:</i> Nourddine El gamouz</p>	Room B6
From 4:30 PM	<p><b>Paper_Id_157 : HOG and SVM: An Effective Approach for Object Detection and Classification</b></p> <p><i>Authors:</i> OMARI ALAOUI Ali, El Youssefi Ahmed, Fethi Mohamed Rida, Farhaoui Othmane, Farahoui Yousef and El Allaoui Ahmad</p>	Room B6
4:00-4:30 (PM)	<b>Coffee Break</b>	Meeting Foyer
<b>Parallel Sessions : ONLINE (4:30-7:30 (PM))</b>		
<b>I2ASD-S09 : AI for Education, Work, and Society</b>		
<i>Session moderated by Pr. EL Moubtahij Hicham / Pr. Haddouch khalid / Pr. Abdelaziz Hessane</i>		
<i>Meet Link: <a href="https://meet.google.com/ucb-nkko-jky">https://meet.google.com/ucb-nkko-jky</a></i>		
From 4:30 PM	<p><b>Paper_Id_181 : Enhancing Facial Expression Recognition for Personalized Learning: A Hybrid Approach with Data Augmentation</b></p> <p><i>Authors:</i> AMKRANE Youssef, Badiy Mohamed, AMOUNAS Fatima, AZROUR Mourade and BENDAOU Salma</p>	Online
From 4:30 PM	<p><b>Paper_Id_8 : Large Language Models in Education: Automating the Creation of Multiple-Choice Questions</b></p> <p><i>Authors:</i> Rami Chaymae, ouahbi ibrahim, El Makkaoui Khalid and Maleh Yassine</p>	Online
From 4:30 PM	<p><b>Paper_Id_179 : Revolutionizing Assessment: How Taxonomies and AI are Transforming the Way We Measure Learning</b></p> <p><i>Authors:</i> Azzouz Mazza , Ouahbi Ibrahim, El Makkaoui Khalid and Maleh Yassine</p>	Online
From 4:30 PM	<p><b>Paper_Id_158 : Boosting Academic Success: Predictive Modeling on Imbalanced Student Data</b></p> <p><i>Authors:</i> Silkhi Hassan</p>	Online
From 4:30 PM	<p><b>Paper_Id_226 : Estimating academic performance using machine learning and advanced analysis</b></p> <p><i>Authors:</i> HAITA Ahmed, FAYZ Soukaina, SABIRI Mohamed and QARAAI Youssef</p>	Online
From 4:30 PM	<p><b>Paper_Id_182 : Enhancing Document Segmentation and Text Extraction Using XY-Cut and LayoutLM v2, v3 Models</b></p> <p><i>Authors:</i> Fatima Ez-zahra Hasnaoui, Mohamed Sabiri and Youssef Qaraai</p>	Online
From 4:30 PM	<p><b>Paper_Id_137 : Exploring the Role of AI in Enhancing the Skills of Women Entrepreneurs: A Thematic MAP Analysis Using Biblioshiny</b></p> <p><i>Authors:</i> EZZAHZI Amina, SAIDI Hicham, SAHRAOUI Doha and MADHAT Fatimazahra</p>	Online
From 4:30 PM	<p><b>Paper_Id_9 : Student Performance Prediction Based on Ensemble Learning Techniques</b></p> <p><i>Authors:</i> Chaymae Yahyati, Siham Essahraoui, Khalid El Makkaoui, ibrahim ouahbi, Yassine Maleh</p>	Online
<b>I2ASD-S10 : AI for Sustainable Development and Agriculture</b>		
<i>Session moderated by Pr. Abdelilah El Meniari / Pr. Ayoub Nouaiti / Pr. Mostafa Merras</i>		
<i>Meet Link: <a href="https://meet.google.com/bcu-ppqa-ctn">https://meet.google.com/bcu-ppqa-ctn</a></i>		
From 4:30 PM	<p><b>Paper_Id_275 : Wind Power Production Optimization: MPPT Integrating PI and Sliding Mode Control</b></p> <p><i>Authors:</i> Aziz Chahbi, Mourad Yessef, Amine Amharech and Hatim Ameziane</p>	Online

From 4:30 PM	<p><b>Paper_Id_159 : Nonlinear Back-stepping Control for Wind Turbine Rotor Speed Regulation</b></p> <p><i>Authors:</i> Aziz Chahbi, Mourad Yessef, Amine Amharech and Hatim Ameziane</p>	Online
From 4:30 PM	<p><b>Paper_Id_16 : Integrating Neural Network-Based Weather Forecasting with Hybrid PSONE for Enhanced Energy Management</b></p> <p><i>Authors:</i> Chaouki Yassine, KASRI Mohammed, Cherkaoui Badreddine and Beni-Hssane Abderrahim</p>	Online
From 4:30 PM	<p><b>Paper_Id_101 : Optimization of the MPPT Algorithm Using PI SMC BSC and ANN Controllers: A Comparative Study</b></p> <p><i>Authors:</i> EL OUADIKI ABDELATAH</p>	Online
From 4:30 PM	<p><b>Paper_Id_83 : Energy Management System by Using Multi Agent System</b></p> <p><i>Authors:</i> Bouafia Mohammed, Amine El fathi, Nabil El akchioui, Fatima Naimi</p>	Online
From 4:30 PM	<p><b>Paper_Id_76 : Leveraging AI for Climate Solutions: Advances Obstacles and Prospects</b></p> <p><i>Authors:</i> KARROUM MAHA, abdellaoui mohammed and Lakhli Fatima-Zahrae</p>	Online
From 4:30 PM	<p><b>Paper_Id_58 : Sustainable Logistics Risk Management: An Adaptive Neuro-Fuzzy Inference System Forecasting Approach</b></p> <p><i>Authors:</i> Hmamed Hala and Cherrafi Anass</p>	Online
From 4:30 PM	<p><b>Paper_Id_24 : Harnessing the Four Vector Intelligent Metaheuristic for Advanced Parameter Optimization in Photovoltaic Systems</b></p> <p><i>Authors:</i> Charaf CHERMITE, Moulay Rachid DOUIRI</p>	Online
<b>I2ASD-S11 : AI for Healthcare</b>		
<i>Session moderated by Pr. Soukaina Mihi / Pr. Fatima Amounas / Pr. Achraf Berrajaa</i>		
Meet Link: <a href="https://meet.google.com/ibh-vkqi-cpt">https://meet.google.com/ibh-vkqi-cpt</a>		
From 4:30 PM	<p><b>Paper_Id_284 : Review of Medical Diagnosis Systems: From Traditional Techniques to Advanced AI Models</b></p> <p><i>Authors:</i> MAALI Abir, MERRAS Mostafa, BERRAJAA Achraf and ABDELLAOUI ALAOUI El Arbi</p>	Online
From 4:30 PM	<p><b>Paper_Id_253 : Optimized Machine Learning for Fetal Health Prediction Using Minimal Features from Cardiotocography in Developing Healthcare Systems</b></p> <p><i>Authors:</i> abdelilah chahid</p>	Online
From 4:30 PM	<p><b>Paper_Id_240 : AI in Healthcare: Opportunities and Challenges</b></p> <p><i>Authors:</i> Chahid Ismail, Kerkour El Moad Aissa and Badaoui Mohammed</p>	Online
From 4:30 PM	<p><b>Paper_Id_238 : Leveraging Transfer Learning and Data Preprocessing to Enhance Arabic Medical Text Classification</b></p> <p><i>Authors:</i> ounachad walid, Khenchouch Mohamed, Zeroual Imad and Farhaoui Yousef</p>	Online
From 4:30 PM	<p><b>Paper_Id_227 : Exploring Spatial Domain Filters in Cervical MRI Image Enhancement</b></p> <p><i>Authors:</i> oussahi Salma, Aziz Darouchi, and El Mahdi EL GUARMAH</p>	Online
From 4:30 PM	<p><b>Paper_Id_225 : The Evolution of Medical Image Segmentation: From Traditional Encoder-Decoders to Transformers</b></p> <p><i>Authors:</i> EL ABASSI FOUZIA, DAROUICHI AZIZ and OUAARAB AZIZ</p>	Online
From 4:30 PM	<p><b>Paper_Id_197 : Colorectal Cancer (CRC) Prediction Using AI-Driven Approaches</b></p> <p><i>Authors:</i> bouarafa badr, BOUARAFAB Abdelilah, BOUARAFAS Saleh, FARHAOUI Yousef, AGHOUTANE Badreddine and EL ALLAOUI Ahmad</p>	Online
<b>I2ASD-S12 : AI for Social Good, and Ethics</b>		
<i>Session moderated by Pr. Mohamed Khalifa Boutahir / Pr. Zennou Hmad / Pr. Samir El kaddouhi</i>		

Meet Link: <a href="https://meet.google.com/mnc-ozyy-crt">https://meet.google.com/mnc-ozyy-crt</a>		
From 4:30 PM	<p><b>Paper_Id_231 : Framework for a circular predictive maintenance process based on multi agent systems toward a sustainable supply chain.</b></p> <p><i>Authors:</i> MOUTAOUKIL Oussama, BOUHADDOU Imane and MAHFOUD Hasana</p>	Online
From 4:30 PM	<p><b>Paper_Id_208 : Multimodal Brain Tumor Segmentation Approach based on 3D U-Net architecture</b></p> <p><i>Authors:</i> Echine Khaoula and DAROUICHI Aziz</p>	Online
From 4:30 PM	<p><b>Paper_Id_91 : Towards Ethical AI Adoption: Aligning with Corporate Social Responsibility</b></p> <p><i>Authors:</i> EL MAAQILI Younes and OUCHEN Abdessamad</p>	Online
From 4:30 PM	<p><b>Paper_Id_124 : Understand intra-institutional relationships in the execution of European financing program to Portugal (PT2020) using graph databases</b></p> <p><i>Authors:</i> Freitas Elisabete, Silva Gonçalo, Oliveira Pedro and Matos Paulo</p>	Online
From 4:30 PM	<p><b>Paper_Id_97 : AI and Crisis Management in Public Governance: Trends Challenges and Insights through a Bibliometric Analysis</b></p> <p><i>Authors:</i> Hanida Haddia and Azougagh Ahmed</p>	Online
From 4:30 PM	<p><b>Paper_Id_89 : Exploring Actors' Perceptions of AI Adoption in Moroccan Local Governments: Feasibility and Performance Improvement</b></p> <p><i>Authors:</i> CHNIGRI Yousra, SADIK Mohammed and SAIDI Hicham</p>	Online
From 4:30 PM	<p><b>Paper_Id_166 : Sentiment Analysis of Arabic Social Media Comments Related to the 2023 Moroccan Earthquake Using Machine Learning Approaches</b></p> <p><i>Authors:</i> ait ichou abderrahim and OUACHA Ali</p>	Online
<b>I2ASD-S13 : AI for Finance, Networking and Security</b>		
<i>Session moderated by Pr. Elarbi Abdellaoui Alaoui / Pr. Khaled Belabes / Pr. Mourad Yessef</i>		
Meet Link: <a href="https://meet.google.com/aci-eijd-wvu">https://meet.google.com/aci-eijd-wvu</a>		
From 4:30 PM	<p><b>Paper_Id_245 : Multi-timeframe assessment of triple barrier labelisation method</b></p> <p><i>Authors:</i> EL YOUSSEFI Ahmed, elhassani slaheddine, BENAOU Ahmed, Hessane abdelaziz, Farhaoui Yousef and Zeroual Imad</p>	Online
From 4:30 PM	<p><b>Paper_Id_195 : Kagi line charting and deep learning model for cryptocurrency forecasting</b></p> <p><i>Authors:</i> JABRANE Hamid, Elhassani Salah Eddine, Aghoutane Badraddine, El Youssefi Ahmed , FATTAH Mohammed and Farhaoui Yousef</p>	Online
From 4:30 PM	<p><b>Paper_Id_112 : Artificial Intelligence Interaction Trends in Crowdfunding and Crowdsourcing Platforms: A Co-occurrence Analysis</b></p> <p><i>Authors:</i> KBIRI ALAOUI Oussama, Saidi Hicham, El Hiri abderrazak and Madhat Fatima Zahra</p>	Online
From 4:30 PM	<p><b>Paper_Id_90 : Artificial intelligence and financial performance of listed companies on Moroccan financial Market: mediating role of business intelligence</b></p> <p><i>Authors:</i> Abdel-Ylah AMAZZAL, MOHAMED EL GHADOUIA, MUSTAPHA BOUMESKA and MUSTAPHA BENGRIH</p>	Online
From 4:30 PM	<p><b>Paper_Id_219 : Efficient Multitask Learning Model for Autonomous Navigation of Visually Impaired Individuals.</b></p> <p><i>Authors:</i> AHMED BOUSSIHMED, KHALID EL MAKKAOUI and YASSINE MALED</p>	Online
<b>I2ASD-S14 : AI for Smart Systems and Urbain Development</b>		
<i>Session moderated by Pr. Abdelilah El Meniari / Pr. Adil Bouhouch / Pr. Hanae Errouso</i>		

Meet Link: <https://meet.google.com/vqh-gyqc-tuy>

From 4:30 PM	<p><b>Paper_Id_273</b> : <b>Optimisation des Temps d'Arrêt des Machines-Outils via des Approches Prédicatives Basées sur des Données Minimalistes</b></p> <p><i>Authors:</i> sajib Ibtissam</p>	Online
From 4:30 PM	<p><b>Paper_Id_111</b> : <b>Utopian Curiosity or Dystopian Fear: AI Shaping the Habitat of Tomorrow</b></p> <p><i>Authors:</i> AZZOUZ Aziza, ALOUANE Salma</p>	Online
From 4:30 PM	<p><b>Paper_Id_39</b> : <b>The impact of AI-driven automation on tourism attractiveness in southern provinces of Morocco an empirical analysis</b></p> <p><i>Authors:</i> EL KARMAOUI Fatima Zahra? EL BALAIDI EL Ouali and EL HAMMOUMI Ahmed</p>	Online
From 4:30 PM	<p><b>Paper_Id_87</b> : <b>Social network analysis applied to transparency in public procurement in Portugal</b></p> <p><i>Authors:</i> Silva Lucas, Silva Vinícius, Bassoumi Yassine; Oliveira Pedro and Matos Paulo</p>	Online
From 4:30 PM	<p><b>Paper_Id_211</b> : <b>Driver Drowsiness Detection Using Deep Learning and VANET Integration: A Comprehensive Approach for Enhancing Road Safety in Morocco</b></p> <p><i>Authors:</i> TAIB Chaymae, Abdoun Otman and el khatir haimoudi</p>	Online
From 4:30 PM	<p><b>Paper_Id_281</b> : <b>Optimization of the multi-echelon inventory systems: A Mathematical Framework for Industry 4.0</b></p> <p><i>Authors:</i> El khokhi Fatima and BOUTI Nabila</p>	Online

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Saturday, 19 April 2025		
9:00-12:00 AM	Workshop 3 : AI/ML/DL Fundamentals	Online
Time (GMT+1)	Activity	Place
<b>Parallel Sessions : ONLINE (9:30 AM -12:30 PM )</b>		
<b>I2ASD-S15 : Digital Transformation</b>		
<i>Session moderated by Pr. Khalid Haddouch / Pr. Amine Sallah / Pr. Khaddouj Ben Meziane</i>		
Meet Link: <a href="https://meet.google.com/jar-rtoa-xny">https://meet.google.com/jar-rtoa-xny</a>		
9:30-9:50 (AM)	<b>Paper_Id.7 :</b> Digital transformation and environmental sustainability: a bibliometric review <i>Authors:</i> Ibrahimhi Ghita, Merioui Wijdane and benchekroun Bouchra	Online
9:50-10:10 (AM)	<b>Paper_Id.199 :</b> ChaosAPI A Genetic Algorithm-Based Tools for Automating Chaos Engineering in API Testing <i>Authors:</i> Ait Said Mehdi, BELOUADDANE Lahcen, Mihi Soukaina and RAOUF Anas	Online
10:10-10:30 (AM)	<b>Paper_Id.117 :</b> Critical Success Factors and Barriers of LEAN SIX SIGMA 4.0 <i>Authors:</i> Tissir Siham, Cherrafi Anass and Elfezazi Said	Online
10:30-11:50 (AM)	<b>Paper_Id.30 :</b> Organizational Agility and Artificial Intelligence: An Alliance for Sustainable Innovation In Moroccan Companies <i>Authors:</i> LAMRHARY Mohamed Alae and slaoui samira	Online
11:50-12:10 (AM)	<b>Paper_Id.33 :</b> Leadership in the AI Era: New Dynamics and Innovative Practices in the Moroccan Context <i>Authors:</i> LAMRHARY Mohamed Alae and slaoui samira	Online
12:10-12:30 (PM)	<b>Paper_Id.70 :</b> The impact of the application of artificial intelligence technology on human resources management in Moroccan tourism companies <i>Authors:</i> el-ouali adil, el hammoumi Ahmed and seghyar Nabil	Online
<b>I2ASD-S16 : Generative AI and LLMs</b>		
<i>Session moderated by Pr. Achraf Berrajaa / Pr. Abdelilah El meniari / Pr. Mostafa Merras</i>		
Meet Link: <a href="https://meet.google.com/koe-dibk-crd">https://meet.google.com/koe-dibk-crd</a>		
9:30-9:50 (AM)	<b>Paper_Id.191 :</b> An overview of CodeLMs' security challenges <i>Authors:</i> EL AAOUD Hafsa, AHKOUK Karam, EL ADDOUNI Fatima and EL MOUBTAHIJ Hicham	Online
9:50-10:10 (AM)	<b>Paper_Id.185 :</b> Arabic Sarcasm Detection: An investigation of Data Augmentation techniques <i>Authors:</i> MIHI Soukaina, Ait Ben Ali Brahim, Ait Said Mehdi and Krari Ayoub	Online
10:10-10:30 (AM)	<b>Paper_Id.184 :</b> Recent advances of Natural Language models and XML Information retrieval <i>Authors:</i> Ahkouk Karam	Online
10:30-11:50 (AM)	<b>Paper_Id.256 :</b> 3D Object Reconstruction from Multiple Images Using Neural Radiance Fields for Depth and Color Prediction <i>Authors:</i> BELKAID Maryem, Alaoui El Arbi Abdellaoui, Berrajaa Achraf and Merras Mostafa	Online
11:50-12:10 (AM)	<b>Paper_Id.60 :</b> Opinions mining on Sustainable Initiatives: Large Language Models as Tools for Measuring Customer Satisfaction <i>Authors:</i> Hicham Nouri, Nassera Habbat	Online

12:10-12:30 (PM)	<p><b>Paper_Id_243 : Innovative Approaches for BIM Education through Generative AI</b></p> <p><i>Authors:</i> Khalil Idrissi Gartoumi, Cédric Stéphane Koumetio Tékouabou, Youssef El Ganadi, Mariame Chahbi</p>	Online
<p><b>I2ASD-S17: AI for Education, Work, and Society</b></p> <p><i>Session moderated by Pr. Adil Bouhouch / Pr. Saïd Agoujil / Pr. Mourad Yessef</i></p> <p>Meet Link: <a href="https://meet.google.com/yoo-yuii-mwb">https://meet.google.com/yoo-yuii-mwb</a></p>		
9:30-9:50 (AM)	<p><b>Paper_Id_78 : Identifying and Predicting Student Engagement and Motivation Using Deep Learning Techniques</b></p> <p><i>Authors:</i> Essahraoui Siham, Ouahbi Ibrahim and El Makkaoui Khalid</p>	Online
9:50-10:10 (AM)	<p><b>Paper_Id_135 : Logistics as a Frontier for Human-AI Collaboration: Transformative Impacts on Public Management Practices and the Re-definition of Job Paradigms</b></p> <p><i>Authors:</i> Hebaz Ali, Ait hammou Ikram, chajae Hamza, Marouane Mkik, Wafaa Belahrar and Amrani Souhailar</p>	Online
10:10-10:30 (AM)	<p><b>Paper_Id_132 : Moroccan Craftsmanship In The Era Of Industry 4.0: How Can AI Enhance Authenticity While Boosting The Sector's Competitiveness?</b></p> <p><i>Authors:</i> IDRISSE Mehdi and El Maftah Madiha</p>	Online
10:30-11:50 (AM)	<p><b>Paper_Id_59 : Artificial Intelligence and HRM in the Public Sector: An Integrative Literature Review</b></p> <p><i>Authors:</i> SAIDI Hicham, CHNIGRI Yousra and MADHAT Fatima zahra</p>	Online
11:50-12:10 (AM)	<p><b>Paper_Id_168 : Artificial Intelligence and Recommender Systems: A Revolution in Personalized Education</b></p> <p><i>Authors:</i> SABIRI MOHAMED, AGOUJIL SAID and Farhaoui Youssef</p>	Online
12:10-12:30 (PM)	<p><b>Paper_Id_214 : Fine-Tuning Whisper for Children's Speech Recognition: Enhancing ASR Accuracy with Specialized Data</b></p> <p><i>Authors:</i> Soukaina FAYZ, Ahmed HAITA, Mohamed SABIRI and Youssef QARAAI</p>	Online
12:30-12:50 (PM)	<p><b>Paper_Id_146 : Potential and future prospects of the development of artificial intelligence in care: An exploratory study in Morocco</b></p> <p><i>Authors:</i> Belharar Ouafae, Amrani Souhaila, Chakor ABDELLATIF, Belharar Fatima Zahra, Mkik Marouane and Hebaz Ali</p>	Online
12:50-13:10 (PM)	<p><b>Paper_Id_258 : Early Childhood Education : does artificial intelligence matter ?</b></p> <p><i>Authors:</i> Fikri Yahya, Hamid Nechhad, Mohamed Rhalma</p>	Online
<p><b>I2ASD-S18 : AI for Sustainable Development and Agriculture</b></p> <p><i>Session moderated by Pr. Ayoub Nouaiti / Pr. Cédric Stéphane K.T / Pr. Ahmad El Allaoui</i></p> <p>Meet Link: <a href="https://meet.google.com/bdu-qbvr-opi">https://meet.google.com/bdu-qbvr-opi</a></p>		
9:30-9:50 (AM)	<p><b>Paper_Id_154 : Evaluating the Effectiveness of Feature Selection Methods in Solar Radiation Forecasting: A Comparative Study of Modeling Techniques</b></p> <p><i>Authors:</i> HISSOU Hasna, BENKIRANE Said, GUEZZAZ Azidine, AZROUR Mourade and Beni- Hssane Abderrahim</p>	Online
9:50-10:10 (AM)	<p><b>Paper_Id_151 : Agronomic and qualitative comparison of two strawberry varieties (Palmeritas and Victory) under organic treatment in Morocco</b></p> <p><i>Authors:</i> Alami Nassima, Khalid El ayoubi, Merwan Aatany, Rachid Jbilou, Kacem Rharrabe, Douae Lamrahli, Ahmed Bakrim</p>	Online

10:10-10:30 (AM)	<p><b>Paper_Id_95 : The Contribution of Total Quality Management to Sustainable Development</b></p> <p><i>Authors:</i> KAMAL AMEZZANE, Lachheb Younes, Benlakouiri Abderrahim, Benzaroual Mustapha, El ghaliki Jawad, Amifi Hamid and El figha Abdennassir</p>	Online
10:30-11:50 (AM)	<p><b>Paper_Id_252 : Tomato Disease Prediction using Machine Learning with MobileNet</b></p> <p><i>Authors:</i> BOUYAAKOUBI Fadwa, Aaroud Abdessadek and El Amri Fatima Zahrae</p>	Online
10:30-11:50 (AM)	<p><b>Paper_Id_41 : Deep Learning Models for Poultry Meat Classification: A Comparative Study</b></p> <p><i>Authors:</i> SALMA SEKHRA</p>	Online
11:50-12:10 (AM)	<p><b>Paper_Id_103 : Forecasting CO<sub>2</sub> concentration: Evaluating Stationarity impact in DVQ-SOM and RNNs Models</b></p> <p><i>Authors:</i> EL FAHFOUHI Hanae, Fatih Fatima , En-Naimani Zakariae and Haddouch Khalid</p>	Online
12:10-12:30 (PM)	<p><b>Paper_Id_150: AI-Driven Psychological and Contextual Marketing: Nudging Sustainable Consumer Behavior</b></p> <p><i>Authors:</i> Irgui Aya, QMICHCHOU Mohammed, EL HARAOUI Ilham</p>	Online
12:30-12:50 (PM)	<p><b>Paper_Id_93 : Towards an AI-Driven Dashboard Framework for Assessing the Sustainability of Healthcare Supply Chains: A Case Study in Tunisia</b></p> <p><i>Authors:</i> Fekih Asma</p>	Online
<b>I2ASD-S19 : AI for Healthcare</b>		
<i>Session moderated by Pr. Brahim Bakkas / Pr. Ed-drissiya El-allaly / Pr. Youssef Ous-sekkou</i>		
Meet Link: <a href="https://meet.google.com/tic-makz-axi">https://meet.google.com/tic-makz-axi</a>		
9:30-9:50 (AM)	<p><b>Paper_Id_53 : Fraud Detection in Hospital Billing using Semantic Analysis and Process Mining</b></p> <p><i>Authors:</i> Smaili Naoual AND Lamghari Zineb</p>	Online
9:50-10:10 (AM)	<p><b>Paper_Id_169 : AI-Driven Predictive Analytics and Blockchain Technology for Real-Time Patient Data Management in an IoMT-Based System</b></p> <p><i>Authors:</i> Ouakasse Fathia, Mosaif Afaf and Rakrak Said</p>	Online
10:10-10:30 (AM)	<p><b>Paper_Id_120 : Mental Health Text Classification using TF-IDF and Graph Embedding Techniques</b></p> <p><i>Authors:</i> Amri Meryem and Haddouch Khalid</p>	Online
10:30-11:50 (AM)	<p><b>Paper_Id_107 : Enhancing Cancer Diagnostics: A Mutual Non-Dominated Maximal Clique for Feature Selection in High-Dimensional Microarray Datasets</b></p> <p><i>Authors:</i> Oubaouzine Abdelali</p>	Online
11:50-12:10 (AM)	<p><b>Paper_Id_85 : Optimizing Convolutional Neural Networks for Lung Disease Classification Using Bayesian Optimization</b></p> <p><i>Authors:</i> Fatih Fatima, EL FAHFOUHI Hanae, EN-NAIMANI Zakariae and HADDOUCH Khalid</p>	Online
12:10-12:30 (PM)	<p><b>Paper_Id_196 : Advancements in Deep Learning for Multi-Disease Detection in Medical Imaging</b></p> <p><i>Authors:</i> EL ADDOUNI Fatima, AHKOUK Karam, EL AAOUD Hafsa and EL MOUBTAHIJ Hicham</p>	Online
<b>I2ASD-S20 : AI for Finance, Networking and Security</b>		
<i>Session moderated by Pr. Soukaina Mihi / Pr. Youssef Elhaoui / Pr. Ait Khellou Mustafa</i>		
Meet Link: <a href="https://meet.google.com/fea-wqxn-yqc">https://meet.google.com/fea-wqxn-yqc</a>		

9:30-9:50 (AM)	<p><b>Paper_Id.254 :</b> Blockchain-based system for privacy and security of health data stored in the cloud.</p> <p><b>Authors:</b> abdelilah chahid</p>	Online
9:50-10:10 (AM)	<p><b>Paper_Id.204 :</b> Revealing CDN-Side Cybersecurity Risks in HTTPS Connections</p> <p><b>Authors:</b> Zineddine Abdelhadi, Zaoui Mohamed, Sadqi Yassine and Safi Said</p>	Online
10:10-10:30 (AM)	<p><b>Paper_Id.172 :</b> The Application of machine learning and deep learning in cybersecurity: “A review of malware detection and classification</p> <p><b>Authors:</b> ZMAIMITA Hicham , Madani Abdellah and Zine-Dine Khalid</p>	Online
10:30-11:50 (AM)	<p><b>Paper_Id.165 :</b> Link prediction in social networks: A literature review</p> <p><b>Authors:</b> Mohamed BADIY, Charaf Hamidi, Fatima Amounas, Mourade Azroul and Salma Bendaoud</p>	Online
11:50-12:10 (AM)	<p><b>Paper_Id.201 :</b> IoT-based harvesting technologies for sustainable energy: innovative approaches and applications in new infra-structures</p> <p><b>Authors:</b> EL KAMILI MOAD, TOUAIRI SOUAD and MABROUKI MUSTAPHA</p>	Online
12:10-12:30 (PM)	<p><b>Paper_Id.244 :</b> Tree-structured Parzen Estimator optimized raw returns trading strategy</p> <p><b>Authors:</b> EL YOUSSEFI Ahmed, Omari alaoui Ali, Jabrane hamid, Hessane abde-laaziz, Farhaoui Yousef and Zeroual Imad</p>	Online
12:30-12:45 (PM)	<p><b>Paper_Id.289 :</b> A Probabilistic Approach to Fraud Prediction Using Bayesian Neural Network</p> <p><b>Authors:</b> EL BACHRI HOUDA, Hayat Sahlaoui, Ahmed Bouba , Ibrahim Belkas, Amine El hanine, El Arbi Abdellaoui Alaoui, and Said Agoujil</p>	Room B5

Innovative Approaches and Applications  
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## Keynote Speakers

### Pr Anastasija Nikiforova



**Affiliation:** University of Montpellier, France  
**Position:** Assistant Professor, University of Tartu, Estonia

**Talk:** *Responsible AI adoption for a sustainable future: balancing opportunities and risks*

**Time:** April 17, 2025 (10:30am - 11:30am)

**Place:** Auditorium

#### Abstract:

Artificial Intelligence (AI) is reshaping industries, governments, and societies. Its expanding capabilities—especially with the advent of large language models (LLMs)—offer transformative potential to address global challenges and accelerate progress toward the Sustainable Development Goals (SDGs). At the same time, AI “dark sides” raises concerns about its own environmental, social, and ethical sustainability, including risks such as bias, opacity, growing energy demands to name just a few. AI has a dual relationship with sustainability: it can be a powerful tool for advancing sustainable outcomes (“AI for sustainability”), and it must itself be developed and deployed in ways that are fair, transparent, and environmentally responsible (“sustainability of AI”). This keynote explores how organizations can adopt AI responsibly by navigating the tensions between innovation and accountability, particularly within data-driven ecosystems. It highlights key challenges across the data lifecycle and decision-making processes, and examines how technological, organizational, and environmental factors shape sustainable AI adoption. The talk will offer practical insights, corrective actions, and future research directions to support the responsible and effective adoption of AI in service of long-term sustainable development.

#### Bio:

Anastasija Nikiforova (PhD in Computer Science) is an assistant professor of Information Systems at University of Tartu. Her research focuses on data governance, digital transformation, and the responsible adoption of emerging technologies, particularly AI. She examines AI’s role in optimizing processes, enhancing data governance, and ensuring data quality, within (public) data and digital ecosystems, incl. ethical implications. Additionally, her work includes the development of AI-powered user-system interaction tools aimed at improving user experiences and decision-making. By exploring the intersection of technology, society, and policy, her research addresses the challenges and opportunities of AI and other innovations, aimed to enhance their resilience, sustainability, and inclusivity of complex sociotechnical systems. She is an Editorial Board Member and an Associate Editor for several journals (e.g., International Journal of Information Management (IJIM), Government Information Quarterly (GIQ), Data & Policy (Cambridge Press)), and track chair for several leading IS and public administration conferences (e.g., (IFIP) EGOV-CEDEM-EPART, International Conference on Digital Government Research (dg.o), AMCIS, HICSS, and workshops with ECAI and IJCAI). See more : <https://anastasijanikiforova.com/>

## Pr Ahmed A. Elngar



**Affiliation:** Faculty of Computers and Artificial Intelligence, Beni-Suef University, Egypt

**Position:** Associate Professor, Head of Computer Science Department

**Talk:** *Intelligent Fusion: Redefining Perception and Decision-Making with IoT, AI, and Computer Vision*

**Time:** April 17, 2025 (2:30pm - 3:30am)

**Place:** Auditorium

### Abstract:

The vast data generated by the Internet of Things (IoT) demands advanced processing for actionable insights. This talk explores the transformative potential of intelligent fusion, which combines IoT data with the analytical power of Artificial Intelligence (AI) and the visual interpretation capabilities of Computer Vision (CV). This powerful synergy promises to revolutionize perception and decision-making across diverse fields. We will delve into how intelligent fusion enhances the accuracy, robustness, and overall effectiveness of AI systems, showcasing real-world applications that demonstrate its transformative impact.

### Bio:

Dr. Ahmed A. Elngar is an Associate Professor and Head of the Computer Science Department at the Faculty of Computers and Artificial Intelligence, Beni-Suef University, Egypt. Dr. Elngar is also, an Associate Professor of Computer Science at the College of Computer Information Technology, American University in the Emirates, United Arab Emirates. Also, Dr. AE is Adjunct Professor at School of Technology, Woxsen University, India. Dr. AE is the Founder and Head of the Scientific Innovation Research Group (SIRG). Dr. AE is a Director of the Technological and Informatics Studies Center (TISC), Faculty of Computers and Artificial Intelligence, Beni-Suef University. Dr. AE has more than 150 scientific research papers published in prestigious international journals and over 35 books covering such diverse topics as data mining, intelligent systems, social networks, and smart environment. Dr. AE is a collaborative researcher He is a member of the Egyptian Mathematical Society (EMS) and International Rough Set Society (IRSS). His other research areas include the Internet of Things (IoT), Network Security, Intrusion Detection, Machine Learning, Data Mining, and Artificial Intelligence. Big Data, Authentication, Cryptology, Healthcare Systems, Automation Systems. He is an Editor and Reviewer of many international journals around the world. Dr. AE won several awards including the Young Researcher in Computer Science Engineering”, from Global Outreach Education Summit and Awards 2019, on 31 January 2019 (Thursday) in Delhi, India. Also, he awards the Best Young Researcher Award (Male) (Below 40 years)”, Global Education and Corporate Leadership Awards (GECL-2018), Plot No-8, Shivaji Park, Alwar 301001, Rajasthan.

## Pr Imad Zeroual



**Affiliation:** Faculty of Sciences and Techniques of Errachidia, Moulay Ismail University of Meknès, Morocco

**Position:** Associate Professor

**Talk:** *The Era of LLMs*

**Time:** April 18, 2025 (3:00pm - 4:00pm)

**Place:** Auditorium

### Abstract:

Large Language Models (LLMs) have emerged as one of the most significant advancements in artificial intelligence and natural language processing. These models are trained on vast datasets to understand and generate human-like text. They analyze patterns in language, enabling them to perform various tasks, such as text completion, translation, summarization, and even complex question-answering. One of the key features of LLMs is their ability to generate coherent and contextually relevant responses. By leveraging architectures like transformers, they can capture the nuances of language and understand context, which allows them to produce high-quality text that often mimics human writing. This capability opens up numerous applications across various fields, including customer service (through chatbots), content creation, education, and even programming assistance. However, LLMs are not without challenges. Issues such as bias in training data, the potential for generating misleading or harmful information, and concerns around privacy and security are critical considerations. Researchers and developers are actively working on strategies to mitigate these concerns, such as fine-tuning models, implementing better filtering mechanisms, and establishing ethical guidelines. The future of LLMs looks promising, with ongoing improvements in algorithms and computing power. As technology evolves, we can expect even more sophisticated applications that harness the power of LLMs, making them an integral part of our daily interactions with technology.

### Bio:

Prof. Imad Zeroual is an Associate Professor of Computer Science at Moulay Ismail University in Meknes and is affiliated with the Business Intelligence and Systems Modeling research team at the Faculty of Sciences and Techniques in Errachidia. His research interests encompass artificial intelligence, with a particular focus on natural language processing, machine learning, information retrieval/extraction, and language teaching/learning. Prof. Zeroual has been invited as a guest speaker at various national and international research institutions, including KU Leuven (Katholieke Universiteit Leuven) and ICESCO (Islamic World Educational, Scientific and Cultural Organization). Additionally, he is the founding president of the Moroccan Center for Information Literacy (MorCIL) and a professional member of the International Association for Educators and Researchers (IAER) based in London, UK. He serves as an associate editor and reviewer for several esteemed journals within the artificial intelligence field. Furthermore, Prof. Zeroual has participated as an organizing and program committee member in numerous international conferences and symposiums, such as ICAISE, CoNLP4LTL, ACLing, and ICALP.



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From AI Concepts to Published Papers

## WORKSHOP TOPICS

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AI/ML/DL  
FUNDAMENTALS

2

Research publication  
pathway

3

Scientific English  
for Academic  
Publishing

## KEYNOTE SPEAKERS



Dr. Chaimae Chekira  
FS-UMI, Morocco



Pr. Mohammed Oussama Najim  
Founder and CEO at ENGLISHINNOV  
Professor at Paul Valery, MOROCCO



Dr. S.C.K. TEKOUABOU  
University of Yaoundé,  
Cameroon



Dr. Amine SALLAH  
ENS, USMBA, Morocco

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