

تحت الرعاية السامية لصاحب الجلالة الملك محمد السادس، نصره الله  
Under the high patronage of His Majesty King Mohammed VI, may Allah assist him.



# THE 7<sup>th</sup> EDITION OF THE INTERNATIONAL CONFERENCE AI2SD'2025

Advanced Intelligent Systems for Sustainable Development

21-23  
MAY | Tangier  
Morocco

ORAL AND  
POSTER

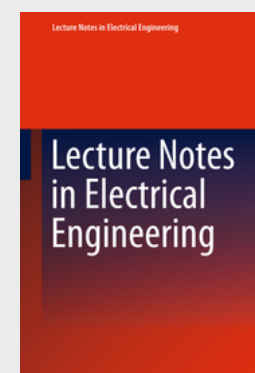
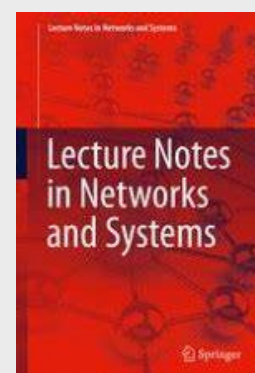


HYBRIDE MODE  
FACE-TO-FACE & ONLINE  
PRESENTATION

## GLOBAL SUMMIT SYMPOSIUM ON

- Health
- Energy
- Education
- Environment
- Agriculture
- Logistics
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# **| ONLINE SESSIONS**

**Date: From 20 To 30 June 2025**

**PARALLEL SESSION 1:**

| Link:                                                                                           |                                                             | Session chairs:                                                                                                                      |
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| <b>AI2SD'2025 Annual Global Summit – 8th Edition<br/>Industry 4.0 &amp; Economic Revolution</b> |                                                             |                                                                                                                                      |
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| 636768                                                                                          | El Hassak Imad, Mounir Soufyane, and Maleh Yassin           | Improving CPS Systems Network Layer Security by Combining PCA and AE for Advanced Threat Detection and Mitigation                    |
| 643164                                                                                          | Nada BADDU, DADDA Afaf, RZINE Bouchra, and HMAMED Hala      | Enhancing Predictive Maintenance with Dual-LSTM Modeling: A Real-World Case Study in an Industrial system                            |
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**PARALLEL SESSION 2:**

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| 643373                                                                                          | Adiba EL FADL, Chaimae EL-YAZAMI, Majid MOUHIB, and Seddik BRI                              | Arrival Direction of Intelligent Smart Antenna                                                                                                                              |
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| 637008                                                                                          | Kamal Najwa, Dachry Wafaa, Gziri Hassan                                                     | Digital transformation and sustainability challenges in the era of industry 4.0                                                                                             |
| 643339                                                                                          | Bassma Zainabi, Yassine Maleh, and Mustapha Belaissaoui                                     | Understanding Customer Behavior Towards Chatbot Adoption: A Comprehensive Literature Review and Analysis                                                                    |
| 643161                                                                                          | Raja Farah, Issam Qaffou                                                                    | Machine Learning-Based Framework for Identifying Influential Nodes in Complex Networks: A Random Forest Approach                                                            |
| 636757                                                                                          | Soukaina BAKKASS, Naoual SEMLALI AOURAGH HASSANI, Mohammed Karim BEN HACHMI                 | Optimizing Industrial Environmental Performance through the Integration of Advanced Technologies in Environmental Management Systems ISO 14001: Perspectives and Challenges |
| 636849                                                                                          | Said Naciri, Aicha El Alaoui                                                                | Unleashing Digital Transformation in Morocco: The Pivotal Role of Governance and Digital Strategy                                                                           |
| 631477                                                                                          | Amina Eljyidi, Hakim Jebari, Kamal Reklaoui                                                 | Coordinating Maintenance and Production for Operational Excellence                                                                                                          |
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**PARALLEL SESSION 3:**

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| 632172                                                                              | Elhoucine Boukraicha                                                            | Adoption du Télétravail au Maroc : Analyse des Déterminants par les Systèmes Intelligents et Perspectives de Durabilité                |
| 639060                                                                              | Mohammed Amine CHAFIK, Faouzi BOUSSEDRA, Adda BENSLIMANE, & Julio LOBÃO         | Evaluating Genetic Algorithm Portfolio Optimization: Evidence from the Moroccan MSI20 Index                                            |
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| 643436                                                                              | Benriyene salwa, Alaoui ismaili bahia, Bakkali soumia                           | Inspiration Labs in Companies: An Innovative Lever for Skills Development in the Era of Industry 4.0                                   |
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| 636815                                                                              | Abdelhay Hassani Allaf, M'hamed Aït Kbir                                        | AI-Powered Digital Watermarking for Early Fake News Detection and Proactive Mitigation in Online Media                                 |
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**PARALLEL SESSION 4:**

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| ID                                                                                              | Corresponding Author                                                                     | Title                                                                                                                                        |
| 642354                                                                                          | Chaymae TARAA, Latifa EZZINE and Haj ELMOUSSAMI                                          | Towards a Lean Manufacturing Supply Chain: Integrating Quality Defect Prediction into Production Planning                                    |
| 642422                                                                                          | Maryam EL MOUDDEN, Jihane ABDESSADAK, Hanane HADDAD, Bilal EL ALLAOUI and Fatima ANAAM   | The impact of Artificial intelligence (AI) on organizational innovation: A Literature Review                                                 |
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| 642452                                                                                          | Hanane HADDAD, Maryam EL MOUDDEN, and Jihane ABDESSADAK                                  | Artificial Intelligence Contributions to Risk Management in Public Organizations: An Exploratory Study                                       |
| 636797                                                                                          | Somia Ghrara, Ouardia Touicher, Elmorchid brahim, and Mohamed Loulid                     | Fiscalité et intention entrepreneuriale dans le secteur du BTP : Éclairages à partir du contexte marocain                                    |
| 636502                                                                                          | Oumaima Louzar, Sara Ahsain, Ouafae Baida, and Abdelouahid Lyhyaoui                      | Detecting Fake News on Twitter Using PCA and LSTM Algorithms                                                                                 |
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| 649701                                                                                          | Abdelhamid Melehi                                                                        | Combating Artificial Intelligence and Information System Crimes in Moroccan and Comparative Criminal Legislation.                            |
| 643330                                                                                          | Zraiate Hajar, Nassim Kharmoum, Soumia Ziti                                              | Comparative Study: AI generative with Traditional Software Testing methods                                                                   |
| 635920                                                                                          | Abdelilah Ganmati, Karim Afdel, and Lahcen Koutti                                        | Deep Learning-Based Multi-Factor Authentication System with Facial Recognition and Smart Card Integration for Banking                        |
| 636843                                                                                          | Mohamed Amine TALHAOU, Chaimaa MOUMAD, Marwane HOUNGNON, Mohammed ABBA, Hamza ELKHATTABI | From Similarity Search to Scalable Systems: A Literature Review on the Evolution of Vector Databases                                         |
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| 636612                                                                       | Rhourbal Mohammed Amine ,<br>Aallali Rachida                                   | Revolutionizing Learning Through AI-Driven Virtual Reality : Pedagogical Contributions and Research Challenges                                              |
| 637565                                                                       | Nezha NACER, Jaouad<br>CHOUIKH and Nadia<br>OUZENNOU                           | The Use of Artificial Intelligence by Nursing Students in Morocco                                                                                           |
| 636636                                                                       | Amal Aoulad Ali, Souad Alaoui,<br>Abdelhalim Hnini, and Imane<br>Chlioui       | Design of hybrid authentication system for visually impaired students using smart contract                                                                  |
| 636728                                                                       | Chaimaa BOUAFOD,<br>Abdellah MADANI, and Khalid<br>ZINE-DINE                   | AI-Based Adaptive Learning: Rosetta Stone’s Effectiveness in Moroccan Universities                                                                          |
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| 636628                                                                       | Hamid Barkouk, Hajar Zekeik<br>and Mohammed Lamarti Sefian                     | Transforming Education Through AR, VR, and AI: A Framework for Immersive, Intelligent, and Inclusive Learning Systems                                       |
| 643140                                                                       | Fatima Anaam, Maryam El<br>Moudden, Brahim Ait Hammou                          | Students’ perspectives towards using Artificial intelligence (AI) in Moroccan higher education                                                              |
| 636357                                                                       | Maryam EL MOUDDEN,<br>Hanane HADDAD, Jihane<br>ABDESSADAK, and Loubaba<br>RIDA | Artificial intelligence (AI) in higher education: an exploratory qualitative study                                                                          |

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**PARALLEL SESSION 6:**

| Link:                                                                                    |                                                                                     | Session chairs:                                                                                                                                                              |
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| ID                                                                                       | Corresponding Author                                                                | Title                                                                                                                                                                        |
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| 636363                                                                                   | Jihane ABDESSADAK, Loubaba RIDA, Hanane HADDAD, and Maryam EL MOUDDEN               | Artificial Intelligence in Engineering Higher Education Enhancing Professors' Course Design and Assessment                                                                   |
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**PARALLEL SESSION 7:**

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| 640133                                                                                                                         | Ismail, El-Mir, Youssef Er-Rays, Badreddine El Moutaqi, Hamid Ait-Lemqeddem, and Mustapha Ezzahiri                    | Connected Healthcare Systems and AI: Challenges and Opportunities                                                                 |
| 643593                                                                                                                         | Hasna FARTIT, Ed-drissiya EL-ALLALY, My Ali BEKRI, and Said BENHLIMA                                                  | Medical Information Extraction and Normalization from Social Media: A Review                                                      |
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**PARALLEL SESSION 8:**

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| ID                                                                                                                             | Corresponding Author                                                                                                                                     | Title                                                                                                                                                                               |
| 642503                                                                                                                         | Hamza Ameziane, Yassine Zahidi, Nabila Rabbah, Mohamed El-Moufid, Nadia Machkour, Hicham Medromi                                                         | Smart ECG Technologies Assessment for Cardiac Monitoring Applications                                                                                                               |
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| 636837                                                                                                                         | Ilyasse Boujraf, Yassine Zahidi, Mohamed El Moufid, Hassan Gziri, Wafaa Dachry, and Hicham Medromi                                                       | Toward Patient-Centered Hemodialysis: A Review of AI and IoT-Driven Advancements in Real-Time Monitoring and Adaptive Treatment.                                                    |
| 646428                                                                                                                         | Amina Akhatab, Sara El Janahi, Zakia Boudar, Fatima Azzahrae El Yacoubi, Zineb El Kettani, Salsabil Hamdi, Najib Al Idrissi, Nouzha Dini, Hassan Ghazall | Comparative Analysis of Expanded Newborn Screening for Inborn Errors of Metabolism Using Tandem Mass Spectrometry and Next-Generation Sequencing: Insights from China and Slovenia. |
| 648283                                                                                                                         | Hassan Barouaca                                                                                                                                          | Trends in Childhood Stunting Across African Regions: A Comprehensive Analysis from 2000 to 2030                                                                                     |
| 642528                                                                                                                         | Chaimae Hilali, Sara Aboulaghras , Asmaa Mdaghri Alaoui, Najat Lamalmi, Mounia Yousfi Malki                                                              | Histopathological Insights of Fetal Vascular Malperfusion: A Review Illustrated by Cases Recruited from the Department of Pathology at Ibn Sina University Hospital in Morocco      |

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**PARALLEL SESSION 9:**

| Link:                                                                                                                          |                                                                                                                                                                                                                      | Session chairs:                                                                                                                           |
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| <b>AI2SD'2025 Annual Global Summit – 8th Edition</b><br><b>Digital Health &amp; AI For the Future Generation of Healthcare</b> |                                                                                                                                                                                                                      |                                                                                                                                           |
| ID                                                                                                                             | Corresponding Author                                                                                                                                                                                                 | Title                                                                                                                                     |
| 642520                                                                                                                         | Islam El Jaddaoui , Hassan Ghazal                                                                                                                                                                                    | Microbial Community Responses to Cleaning in a Hospital Environment: A Spatio-Temporal Analysis                                           |
| 647382                                                                                                                         | Abdellah Idrissi Azami, , Mariam Laatifi, Essalihi Amina , Najib Alidrissi , Hassan Ghazal                                                                                                                           | AI-Assisted Genomic Analysis of Measles Virus Reveals No Outbreak-Specific Variants                                                       |
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**PARALLEL SESSION 10:**

| Link:                                                                                                                          |                                                                                                                       | Session chairs:                                                                                                                                             |
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| ID                                                                                                                             | Corresponding Author                                                                                                  | Title                                                                                                                                                       |
| 647431                                                                                                                         | Hassan Ghazal, Aya En-Nesyry                                                                                          | Uncovering Microbial Diversity in Elite Martial Artists through Amplicon Sequence Variant Profiling                                                         |
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| 646431                                                                                                                         | Soumaya Jbara, Sara Fadel, Sara Ouled Saber, Hanane Qodad, Najib Al Idrissi, Rajae Tissir, Hassan Ghazal              | Oral Microbiome Alterations in Pediatric Inflammatory Bowel Disease: Insights from 16S rRNA Sequencing and DADA2 Analysis                                   |
| 646436                                                                                                                         | Ouled Saber Sara, Soumaya Jbara, Sara Fadel, Najib Al Idrissi, Wajih Rhalem, Abdelhamid Naitlhou, Hassan Ghazal       | Impact of Smoking on the Oral Microbiome: A Systematic Metagenomic Review                                                                                   |
| 635542                                                                                                                         | Siham Rekiek, Hakim Jebari, Mostafa Ezziyyani, Loubna Cherrat                                                         | AI-IoT-Edge-Cloud Framework: Transforming Personalized Healthcare                                                                                           |
| 646646                                                                                                                         | Mohamed Zaki                                                                                                          | Artificial Intelligence-Enhanced Baroreflex Activation Therapy: A New Paradigm for Precision Blood Pressure Modulation in Medication-Resistant Hypertension |
| 636463                                                                                                                         | Bellarbi Larbi, Elouerghi Achraf, Khomsi Zakaryae, Jbari Atman and Rhalem Wajih                                       | Prospects for the development of early and continuous breast monitoring to prevent the birth of possible tumors                                             |
| 628915                                                                                                                         | Zineb El Marzouki, Laila Ibouzine-dine, Mouloud Lamtai, El hassan Ouanouche, Abdelhalem Mesfioui, Aboubaker El-hessni | Effects of repeated administration of lipopolysaccharides at a critical developmental period on cognitive and negative symptoms of schizophrenia in rat     |

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**PARALLEL SESSION 11:**

|                                                                                                              |                                                                                                                                                                                                           |                                                                                                                  |
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| AI2SD’2025 Annual Global Summit – 8th Edition<br>Digital Health & AI For the Future Generation of Healthcare |                                                                                                                                                                                                           |                                                                                                                  |
| ID                                                                                                           | Corresponding Author                                                                                                                                                                                      | Title                                                                                                            |
| 636785                                                                                                       | RAJAALLAH El Mostafa, EL BAZ Hind                                                                                                                                                                         | Automation of medical imaging analysis for ankle injury prevention                                               |
| 637966                                                                                                       | JRAMY CHAIMAA, ADADI WIAME, CHARROUK SANAA OUAHID ASMAA, AND SAFI AMAL                                                                                                                                    | JRAMY CHAIMAA Natural selection patterns and multiethnic distribution of pathogenic mutations in MODY            |
| 640137                                                                                                       | Ismail, El-Mir, Youssef Er-Rays, Badreddine El Moutaqi, Hamid Ait-Lemqeddem, and Mustapha Ezzahiri                                                                                                        | Exploring ChatGPT in Healthcare: A Scoping Review on Ethical Considerations and Efficiency Enhancement           |
| 646434                                                                                                       | Najat Lechhab, Abdellah Ouaguid, Wajih Rhalem, El Mehdi Jaafari, Zineb El Otmani Dehbi, Chifaa Zaarat, Hassan Ghazal, Lahcen Belyamani, Najib Al Idrissi                                                  | Regenerative medicine and the repair of musculoskeletal injuries: current status and challenges                  |
| 647331                                                                                                       | Sofia Sehli, Najib Al Idrissi, Hassan Ghazal                                                                                                                                                              | Comparative Analysis of Long COVID Prevalence, Symptoms, and Risk Factors in Morocco and Other African Countries |
| 647308                                                                                                       | Douae El Ghouali, Stacy Pirro, Abdellah Idrissi Azami, Salwa Zeidi, Fatima Zahra Serhani, Salma Batal El Khourouba, Najib Al Idrissi, Redouane Merriouch9, Hicham Bellaoui, Chakib Nejjari, Hassan Ghazal | Comparative Assembly and Annotation of the Mitochondrial Genome of Bornella anguilla                             |
| 649703                                                                                                       | SARAH KHROUCH, Loubna Cherrat, Mostafa Ezzivvani                                                                                                                                                          | Leveraging MDP for Precision Optimization of Breast Cancer Therapeutic Strategies                                |

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**PARALLEL SESSION 12:**

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| <b>AI2SD'2025 Annual Global Summit – 8th Edition<br/>Green Energy &amp; Smart Environnement</b> |                                                                                                           |                                                                                                                    |
| ID                                                                                              | Corresponding Author                                                                                      | Title                                                                                                              |
| 628705                                                                                          | Meriem M'dioud, Abdelfettah Bannari, Youssef Er-Rays, Rachid Bannari, Ismail El Kafazi                    | An enhanced ABC algorithm for optimal size and site of DG unit                                                     |
| 628697                                                                                          | Meriem M'dioud, Abdelfettah Bannari, Youssef Er-Rays, Rachid Bannari, Ismail El Kafazi                    | An improved ABC algorithm for multi-objective problem                                                              |
| 636830                                                                                          | Mohamed Limam El Hairach, Insaf Bellamine, Amal Tmiri, Hassan Silkan                                      | A Simplified Method for Clear Sky Detection in Photovoltaic Systems Using GHI Delta and Irradiance Ratio Analysis  |
| 636834                                                                                          | Ilham IDRISSE JOUICHA, Ouafae JBAIHI, Atae SEMMAR, Hassan GZIRI, Wafaa DACHRY and Hicham MEDROMI          | The integration of renewable energies, AI, and IOT in seawater desalination: A state of the art                    |
| 643273                                                                                          | Oussama KHOULI, Mohamed HANINE, and Mohamed Louzazni                                                      | A Comparative Study of Machine Learning Models for PV Power Output Prediction: A Case Study in China               |
| 643107                                                                                          | Tibibt Imane, Zahidi Yassine, Dachry Wafaa, El Moufid Mohamed, Gziri Hassan and Medromi Hicham            | Developing methods for recovering energy and materials from medical and biomedical waste.                          |
| 631859                                                                                          | Bendaoud SAAD                                                                                             | The Magnetic Field of a Circular Current Loop: a Novel Approach                                                    |
| 643394                                                                                          | ACHLIOUI Mohamed, ZAHIDI Yassine, RABBAH Nabila, EL-MOUFID Mohamed, MEDROMI Hicham, and TOUATI Abdelwahed | A study about Aircraft Configuration and Propulsion Technologies                                                   |
| 631251                                                                                          | Mohammed Hdid , Hakim Jebari , Hassan Samadi                                                              | Overcoming Barriers to AI Adoption in Injection Molding: A Review and Case Study Approach                          |
| 632447                                                                                          | Nihad Hamoudan, Hakim Jebari, Kamal Reklaoui, and Ahmed Al Mers                                           | Metal-Organic Frameworks (MOFs) in Lithium-Ion Batteries: Synthesis, Applications, and Next-Generation Innovations |
| 649414                                                                                          | Nadine Safa, Ezziyyani Mostafa                                                                            | Geographic and Meteorological Ranking Tool for Solar and Wind Site Selection                                       |



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| 636581                                                                                          | Amine Rihane, Mohammed Kasri, Youssef Lamriji, Mustapha Hankar, and Abderrahim Beni-Hssane | Multi-Criteria Assessment and Selection of Renewable Energy Sources for Sustainable Electricity Generation in Morocco |
| 643181                                                                                          | HAMRI ZINEB, BOUROUHO IMANE, MOUHIR LATIFA                                                 | Forecasting Biogas Yield from Municipal Landfills: Modeling with EPA and LandGEM Models                               |
| 636622                                                                                          | Karima HALOUA, Karim TAHIRY, and Abdelmajid FARCHI                                         | Aerial Inspection of Wind Turbine Blades: State-of-the-Art Damage Detection and Future Perspectives                   |
| 636623                                                                                          | Kawtar AHMINE, Karim TAHIRY, and Rachid HABBACHI                                           | Energy Optimization of Industrial Pumping Systems: From Traditional Methods to Intelligent Algorithms                 |
| 636550                                                                                          | Mohamed Kichouhi, Rachid El alaiji, Mohammed Amine Moussaoui, and Soufiane Derfoufi        | Investigation of thermophysical characteristics of cement-based concrete incorporating date pits powder               |
| 636614                                                                                          | El yakoubi Marwa, Dadda Afaf, Sekkat Souhail                                               | Towards Intelligent Eco-Design: Contributions of AI and Digital Tools                                                 |
| 639798                                                                                          | Mohammed Aouisset, Dounia Chaatouf, Soufiane Derfoufi                                      | CFD analysis of Base/Part-Load of Induced-Draft cooling tower                                                         |
| 635752                                                                                          | Yahya Ladghami, Touafik Ouali                                                              | Thermodynamics of Black Holes and Quantum Gravity                                                                     |
| 636051                                                                                          | EL MAJDOUBI Yousra, BAHRAOUI Zuhair, and OZGUL Sevim                                       | Exploring alternative statistical models for wind energy estimation : beyond the Weibull distribution                 |
| 636776                                                                                          | Meryem Ennakri, Mohamed Dakki, Mohamed El Farouki, Soumia Ziti                             | Linking Species Preference and Diversity to Describe Community Homogeneity                                            |
| 643600                                                                                          | Badr-Eddine Benelmostafa, and Hicham Medromi                                               | Adaptive Style Perturbation for Balanced Domain Generalization in Adverse Weather Power Line UAV Inspections          |
| 643640                                                                                          | Omar Zenzoum, Hatim Kharraz Aroussi, and Yassine Rayri                                     | Improving security in Wireless Sensor Networks                                                                        |
| 649296                                                                                          | CHRIT Salma, Kaoutar BAZZAR                                                                | Machine Learning for Predicting and Optimizing Eco-Concrete Performance                                               |

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| <b>AI2SD'2025 Annual Global Summit – 8th Edition<br/>Water &amp; Climate Change</b> |                                                                                                                 |                                                                                                                                                                                            |
| ID                                                                                  | Corresponding Author                                                                                            | Title                                                                                                                                                                                      |
| 643467                                                                              | Fellah Saida, Mabrouki Charif                                                                                   | Literature Review: Application of MCDM Methodology to Dry Port Location Problems                                                                                                           |
| 642635                                                                              | Omaima Khalil ElFanne, Badr El Fathi, Abdelaziz Boutchkkoucht, Nouhaila Mazigh, Abdelali Sebbar, Abdeslam Taleb | Use of the Multilevel Linear Mixed Effects Model with the R Software and the Ca Markov Simulation Model to Estimate Changes in Precipitation and Land Use in the El Ganzra Region, Morocco |
| 641252                                                                              | Ikram Chhimi, Abdeslam Taleb, Mohamed Laaouan, Mohammed El Hachoumi, Bader El Fathi, Smail Essellami            | Monitoring the Efficiency of a Low-Load Activated Sludge System for Wastewater Treatment in the Rabat Region, Morocco.                                                                     |
| 636779                                                                              | Mohammed Kahlaoui, Aboulkacem Karkri, Mohammed Anisse Moutaouekkil, Chakib Taybi and Abdechafik Derkaoui        | Deep Learning for Sustainable Water Management: Estimating Root and Soil Moisture Using GPR                                                                                                |
| 643628                                                                              | Ahlam MAJID                                                                                                     | LCA of Nature-Based Solutions in Civil Engineering: Green Infrastructure Systems                                                                                                           |
| 643615                                                                              | Yousra Hamoumi, Abdeslam Taleb, Abdessalam Ouallali, Amine Sarhrani, Mohammed Idrissi                           | Bibliometric analysis of climate change impact on hydro-sediment behaviors in coastal areas: trends and challenges                                                                         |
| 643625                                                                              | Nouhaila Lassfar, Dalila Loudyi                                                                                 | Hydro-Sedimentary Dynamics in the Oum-Errabia Estuary Using Integrated Remote Sensing and Advanced Numerical Modeling Approaches                                                           |
| 636605                                                                              | Issam Bakkour, and Zaynab El khattabi                                                                           | Natural Disasters in Morocco: A Comparative Study of Deep Learning and Artificial Intelligence Methods                                                                                     |
| 642932                                                                              | Idriss Sammaa, Mohammed Yazami Ztait, Ali Taous and Abdeslam Taleb                                              | HYDRO-MORPHODYNAMIC FUNCTIONING AND ANTHROPIC IMPACTS IN THE OUED BOUREGREG VALLEY (CENTRAL PLATEAU, MOROCCO)                                                                              |

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**PARALLEL SESSION 15:**

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| AI2SD’2025 Annual Global Summit – 8th Edition<br>Water & Climate Change |                                                                                                      |                                                                                                                                                        |
| ID                                                                      | Corresponding Author                                                                                 | Title                                                                                                                                                  |
| 636791                                                                  | Oumaima BOUANANI, Sara SANDABAD, Hassan MABCHOUR, and Moulay El Houssine ECH-CHHIBAT                 | Advanced Oil Spill Segmentation in Maritime Synthetic Aperture Radar Imagery: A Comparative Analysis of Deep Learning Architectures                    |
| 643627                                                                  | Safae EL HIR, Mehdi MAANAN, Ismail LAGRAT, Ahmed AIT ERROUHI                                         | Monitoring of Anthropogenic Impacts on water quality in the Nador lagoon                                                                               |
| 639467                                                                  | Hmamed Hala, Cherrafi Anass                                                                          | Integrating Climate Change Adaptation and Green Logistics within Industry 5.0/4.0: Towards Sustainable Industrial Transformation in Emerging Economies |
| 642476                                                                  | Bouazza Sallak, Sibastiane Lebaut, Yahia El Khalki, Gille Emanuel and Hasan Ouakhir                  | Identification of flash flood event characteristics in the Dir of the Atlas Beni Mellal, Morocco: implications for environmental management.           |
| 643643                                                                  | Fettah Abla, Mouhir Latifa, Tayane Souad                                                             | Climate change: Sectoral Responsibilities, Impacts, and Strategic Responses - Review                                                                   |
| 636144                                                                  | M. El hachoumi, A. Taleb, A. EL Bilali, M. Moukhliiss, S. Essellami, B. El Fathi                     | A Dual-Method Approach to Quantify Water Losses: IWA Framework and Minimum Night Flow Analysis                                                         |
| 636822                                                                  | SAAD Ahlam, MOUKHLISS Mohammed, EL FATHI Badr, ESSALAMI Smail, Mohammed Yazami Ztait, TALEB Abdeslam | Estimation of Soil Loss using USLE model and GIS techniques. Case study: Oued El Malleh Watershed, Morocco                                             |
| 649293                                                                  | Hakim Jebari, Siham Rekiek, Mostafa Ezziyyani, Loubna Cherrat                                        | AI-IoT-Edge-Cloud Framework for Smart Urban Water Management: Enhancing Sustainability and Efficiency                                                  |

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**PARALLEL SESSION 16:**

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| AI2SD’2025 Annual Global Summit – 8th Edition<br>Agriculture 4.0 & Food Security |                                                                                                                            |                                                                                                                                              |
| ID                                                                               | Corresponding Author                                                                                                       | Title                                                                                                                                        |
| 643291                                                                           | Imane Fadel, Fatehi ALtalqi, Jamila Dahmani                                                                                | Investigation and Conservation of Homalothecium lutescens and Homalothecium sericeum: Insights from Various Stations in Ifrane National Park |
| 644087                                                                           | Hayat BOURAHHIOUI, Nadia BELAHBIB, Allal DOUIRA, Lahcen ZIDANE, Jamila DAHMANI                                             | Soil and stand types of the Ben slimane forest, Morocco: Combined card                                                                       |
| 636408                                                                           | Youssef BOUH, Mohamed OUHDA, Mohamed BASLAM                                                                                | Detection of Date Fruit Bunch Stalk Using YOLOv8 and SAM Algorithms                                                                          |
| 636781                                                                           | Moudni Yousra, Chafik Khalid                                                                                               | A cross-view of Moroccan startups and agribusinesses perceptions of AI adoption: Confirmatory study                                          |
| 646191                                                                           | Soukaina TAYOU, Amina OUAZZANI TOUHAMI, Soukaina MSAIRI, Maryam ARTIB, Karima SELMAOUI, Charkaoui EL MODAFAR, Allal DOUIRA | Diversity of arbuscular mycorrhizal fungi in the rhizosphere of grapevines                                                                   |
| 637491                                                                           | Mohamed ZARID                                                                                                              | Integrated Omics Reveal Genetic and Environmental Regulation of Texture and Aroma in Melon Fruit                                             |
| 642824                                                                           | EL HOU Meryem, ZAHIDI Yassine, RABBAH Nabila, EL MOUFID Mohamed, MEDROMI Hicham, TOUATI Abdelwahed                         | A Study about the Methods of Irrigation Optimization Using EWA Nexus Approach and AI                                                         |
| 634199                                                                           | Nissrine Gouiza, Hakim Jebari, Kamal Reklaoui                                                                              | Cloud, Edge, and Big Data Analytics for Precision Aquaculture: Optimizing Decision-Making and Scalability                                    |
| 634196                                                                           | Nissrine Gouiza, Hakim Jebari, Kamal Reklaoui                                                                              | IoT and AI for Sustainable Aquaculture: Transforming Monitoring and Management                                                               |
| 643431                                                                           | EL ALLAOUI Achraf, EL ANSARI Loubna, SEMMAR Atae, DACHRY Wafaa, GZIRI Hassan, MEDROMI Hicham                               | Desalination in the Water-Energy-Food Nexus: A Review                                                                                        |

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**PARALLEL SESSION 17:**

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| AI2SD’2025 Annual Global Summit – 8th Edition<br>Agriculture 4.0 & Food Security |                                                                                                                             |                                                                                                                                                                |
| ID                                                                               | Corresponding Author                                                                                                        | Title                                                                                                                                                          |
| 642018                                                                           | Othman Couqua, Miloudia Slaoui, Keltoum Rahali                                                                              | Risk management analysis in avocado production and ex-<br>portation: improving risk management practices                                                       |
| 632330                                                                           | AIT AHMED Nihad, AIT AHMED Aymen, EZZIYYANI Mostapha                                                                        | Decision support system and prevention of climate change risks on agriculture in Morocco, the case of cannabis cultivation in northern Morocco                 |
| 635560                                                                           | Abdelouafi Boukhris, Antari Jilali, M.Kasri, and Abderrahman Sadiq                                                          | Crop Yield Prediction Using Deep Learning Models and Remote Sensing Imagery                                                                                    |
| 635539                                                                           | Hakim Jebari, Siham Rekiek, Mostafa Ezziyyani, Loubna Cherrat                                                               | AI-IoT-Edge-Cloud Integration for Sustainable Smart Agriculture                                                                                                |
| 633735                                                                           | Nidal Tafah, Younes El Fellah, Dennis Osei, Rquia Bourziza, Ismail El Hasnaoui, Wafaa El Khoumssi                           | Empowering Rural Resilience: The Role of NonProfit Organizations in Promoting Smart Irrigation Technologies for Sustainable Agricultural Employment in Morocco |
| 636711                                                                           | Jaayefar Fatima-ezzahra, Mahmoud Oudghiri, Belahbib Nadia, Zidane Lahcen et Dahmani Jamila                                  | Status of Pistacia atlantica Ecosystems. Case of the Maaziz Region, Morocco                                                                                    |
| 636856                                                                           | Fatima-Zahra YASSIF, Asmaa BENAYAD, Douae BENLOUGHMARI, Kaoutar EJJA, Siham MOUSSAID, Yassmin ELMORABIT, Youssef ABOUSSALEH | Revolutionizing Moroccan Goat Dairy Products: Enhancing Safety and Metabolic Health Benefits for Obesity Management                                            |
| 649295                                                                           | Siham Rekiek, Hakim Jebari, Mostafa Ezziyyani, Loubna Cherrat                                                               | AI-IoT-Edge-Cloud Framework for Precision Livestock Farming: Enhancing Animal Welfare and Farm Efficiency                                                      |

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| <b>AI2SD'2025 Annual Global Summit – 8th Edition<br/>Smart City &amp; Urbanisation</b> |                                                                              |                                                                                                                                       |
| ID                                                                                     | Corresponding Author                                                         | Title                                                                                                                                 |
| 642467                                                                                 | Chakour Ilias, Abdoun Otman                                                  | Comparing large neighborhood search strategies for the vehicle routing problem with time windows                                      |
| 636817                                                                                 | BOULKHIR LAYLA,<br>MOUSSAS KAOUTAR,<br>ATITAOU ASMAE                         | Solidarity Tourism and Tourism Intelligence: A Panel Data Econometric Analysis for the Digital Governance of Sustainable Territories. |
| 641980                                                                                 | Nadia Berrahmania, EL Hachmi Hammou, Lekbira EL Fadi                         | Comparative Analysis of Hybrid Metaheuristics in Solving the Green Vehicle Routing Problem                                            |
| 643334                                                                                 | JAAIFI Nezha, FIKRI Majda                                                    | Hybrid Optimization of the Energy Minimizing Vehicle Routing Problem Using Novel Clustering Methods and Ant Colony Algorithm          |
| 643172                                                                                 | BOUROUHOU IMANE,<br>HAMRI ZINEB                                              | Urban Growth and Air Quality Dynamics between: A Spatio-Temporal Remote Sensing Assessment Using Multi-Sensor Earth Observation Data  |
| 637312                                                                                 | Imane ZARROUK,<br>Soufiane AGUIDA                                            | Smart Destination Branding through Digital Platforms: A Statistical Study on AI Tools in Moroccan Tourism Marketing                   |
| 636619                                                                                 | Fijahi Nour, Sliman Mounia                                                   | The Perceived Social Value of Luxury Among Millennials: An Exploratory Study Using NVIVO                                              |
| 642942                                                                                 | Rim BENJELLOUN, Siham REKIEK, Khalid JEBARI                                  | Morocco's Smart Tourism Future: Genetic Algorithms for Sustainable Itinerary Optimization                                             |
| 636643                                                                                 | Fatima Zahra Abbour, Soufiane Ardchir, Soumaya Ounacer, and Mohamed Azzouazi | Evaluating Fairness: Metrics in AI Recruitment                                                                                        |
| 645279                                                                                 | HOUIR ALAMI Maha and EL HAROUCHI Laila                                       | Tracing the Evolution of Food Waste Management Research in Tourism and Hospitality: A Global Bibliometric study                       |
| 641882                                                                                 | Imane RHZIOUAL BERRADA,<br>Fatimazahra BARRAMOU, and Omar BACHIR ALAMI       | Artificial intelligence and sports events' impact on the tourism sector and real estate market in Morocco                             |
| 645366                                                                                 | Anass BENDAHMANE and Laila EL HAROUCHI                                       | Exploring the Impact of AI on Engagement in Crowdfunding through Social Media Analysis: A Narrative Review                            |

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**PARALLEL SESSION 19:**

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| AI2SD’2025 Annual Global Summit – 8th Edition<br>Smart City & Urbanisation |                                                                                                                     |                                                                                                                                              |
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| 641976                                                                     | Adil EL ARFAOUI, Ismail ESSAMLALI, Hasna NHAILA, Mohamed EL KHAILI                                                  | Spatio-Temporal Modeling of Air Quality Data Collection Using Urban Bus Networks: Case of Mohammedia City                                    |
| 649702                                                                     | Dchieche Amina, Zniber Elarabi , El Alaoui Abdelkader, Ouatik El Alaoui Said, Haouba Khadijetou and Bitauoui Fatima | Exploring ESG Influence on Rental Real Estate Performance and Practices: A Bibliometric Analysis and Literature Review                       |
| 643148                                                                     | Naila Belhaj Soulami, Hassan Azdimousa                                                                              | Innovation at the heart of Smart Tourism Destinations: A qualitative research applied to Moroccan case                                       |
| 636560                                                                     | Lina Hamdi                                                                                                          | The Future of Space Travel: Colonizing Mars and Beyond                                                                                       |
| 636695                                                                     | MOHAMED EL HAMDOUNI, ABDERRAHIM TAHIRI                                                                              | Making decision in smart home using context ontology rules base and software engineering                                                     |
| 637786                                                                     | Yahya HASSINE, Kaoutar ALHADERI                                                                                     | The Role of Digital Transformation on Smart Cities: A Systematic Literature Review                                                           |
| 642477                                                                     | Bouazza SALLAK, Zaineb LAHDACHI, Jihane LAHROUR                                                                     | Habitat Post-Sismique en Al Haouz : Quand le patrimoine et l’innovation façonnent l’habitat de demain                                        |
| 645829                                                                     | Lazaar hanane, cheriet nabil                                                                                        | Driving innovativity: a key catalyst for digital agility within the OFPPT (Office for Skills Training and the Promotion of Work) in Morocco. |

| <b>AI2SD'2025 Annual Global Summit – 8th Edition<br/>Transport &amp; Logistics</b> |                                                                                             |                                                                                                                     |
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| ID                                                                                 | Corresponding Author                                                                        | Title                                                                                                               |
| 636824                                                                             | Khalid ANBRI, Mohamed El Moufid, Yassine ZAHIDI, Hassan GZIRI, Wafaa DACHRY, Hicham MEDROMI | Artificial Intelligence for Sustainable Intermodal and Multimodal Transport Systems: A Systematic Literature Review |
| 643650                                                                             | TALLAKI Salma                                                                               | IoT-Driven Transformation of Supply Chains: Benefits and Implementation Challenges                                  |
| 643324                                                                             | Ilyasse HANAFI, Otmane YAZIDI ALAOUI                                                        | A Conceptual Framework for Headway Regularity in Moroccan Urban Transport Systems                                   |



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| 643202                                                                                             | Mahdi Ijlal, Al Meriouh Youssef                                | Literature review: Blockchain and Fintech in Supply chain                                                                                              |
| 636386                                                                                             | Mohamed EL Ghadouia and Abdel-Ylah Amazzal                     | Quantitative analysis of the effects of fundamental factors and investor sentiment on stock returns predicted: Evidence from Moroccan listed companies |
| 635938                                                                                             | Mohammed Tadmouti, Sara Amsidder, Abdelfettah Sedqui           | Traceability and Transaction Security in Blockchain                                                                                                    |
| 633259                                                                                             | Soumia Ziti, Imane Bahammou, Karim El Bouchti                  | Reinforcement Learning Applied to Trading: Trends, Challenges, and Future Directions.                                                                  |
| 636081                                                                                             | ADNANE EL OUARDI, BRAHIM ER-RAHA, MUSTAPHA RIAD, KHALID TATANE | A GAN-BASED METHOD TO TUNE LSTM HYPERPARAMETERS FOR FINANCIAL FORECASTING                                                                              |
| 648973                                                                                             | YOUNES ABID, Chaymae DOUHID, Mohamed CHEMLAL                   | Économie numérique et intelligence économique : catalyseurs de la rentabilité et de la résilience financière des entreprises                           |
| 648988                                                                                             | Chaymae DOUHID, Younes ABID, Mohamed CHEMLAL                   | La nouvelle ère de la bonne gouvernance : décryptage des pratiques émergentes au prisme de la performance financière                                   |
| 636595                                                                                             | Meryem MEZZARA, Ayyoub SAOUDI, Jamal ZAHI                      | Leveraging AI to Overcome the Slowness of Accounting Operations and Drive Financial Performance                                                        |
| 636270                                                                                             | AMAMOU Youssef, ABBADI Mohammed                                | Metaheuristics and Evolutionary Algorithms for Demand Forecasting in Supply Chain and Logistics: A Systematic Literature Review                        |
| 643211                                                                                             | Mahdi Ijlal, Al Meriouh Youssef                                | Blockchain and Fintech on Moroccan supply chain                                                                                                        |
| 649297                                                                                             | CHRIT Salma                                                    | INTELLIGENT APPROACH TO CLASSIFYING SOCIAL & Solidarity ECONOMY PROJECTS : Comparative study of artificial intelligence methods                        |