

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

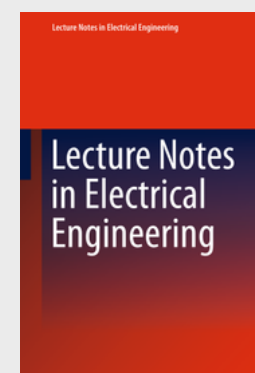
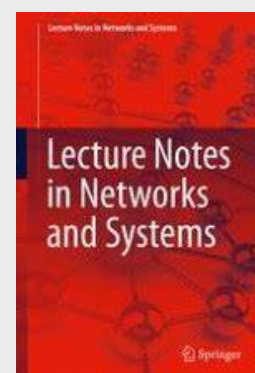


HYBRIDE MODE  
FACE-TO-FACE & ONLINE  
PRESENTATION

## GLOBAL SUMMIT SYMPOSIUM ON

- Health
- Energy
- Education
- Environment
- Agriculture
- Logistics
- Industry
- Tourism & Sport

All the accepted and presented papers at the AI2SD'2025 conference will be published within



Deadline for Abstract and Full papers Submission 2025 via :  
<https://ai2sd.scienceconf.org/>



Contact : General Chair : Prof. Mostafa EZZIYYANI

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mezziyyani@uae.ac.ma



**MOHAMMAD VI**  
**THE KING OF MOROCCO**  
**SINCE 1999**





# PROFESSOR MOSTAFA EZZIYYANI BIOGRAPHY

Professor Mostafa Ezziyyani is a distinguished Moroccan academic, researcher, and leader in the field of computer science. He holds two doctoral degrees: one in Software Engineering from Mohammed V University in Rabat, and a second in Distributed Systems and Web Technologies from Abdelmalek Essaâdi University. Since 1996, he has served as a professor at the Faculty of Science and Technology of Tangier, where he also directs the Master's Program in Artificial Intelligence and Data Science. His academic path is marked by excellence in both research and teaching, with a focus on intelligent systems, heterogeneous system integration, semantic web, multi-agent systems, and big data. His contributions extend across both theoretical foundations and applied solutions, covering fields such as healthcare, agriculture, education, and environmental systems.

Professor Ezziyyani is the founder and General Chair of the AI2SD Conference (Advanced Intelligent Systems for Sustainable Development), a leading international forum that brings together researchers, scientists, engineers, and industry leaders to discuss and develop AI-based technologies that address global challenges. Under his leadership, AI2SD has become a hub for interdisciplinary exchange, knowledge transfer, and collaboration across sectors. He has authored more than 100 peer-reviewed publications in international journals and conferences and has coordinated several national and international projects funded by academic and industrial bodies.

Artificial Intelligence and Data Science Expert, Consultant in the Analysis and Development of Distributed Intelligent Systems, President and CEO of Innovation and Technology Transfer Foundation, Advisory Board Member, Union of Arab Scientific Research Councils

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<https://ezziyyani.com/>



His work includes the development of intelligent evacuation systems for natural disasters, smart tools for the visually impaired, and data-driven platforms for sustainable agriculture.

He maintains active collaborations with leading research institutions in France, Spain, the United States, China, and several countries in the MENA region. He has been invited as a visiting professor and keynote speaker at universities and conferences worldwide. In addition to his academic achievements, Professor Ezziyyani is also an entrepreneur, serving as the CEO of two technology firms—ITTF and WayTech—which translate his research into practical, scalable innovations. His efforts bridge academia, industry, and social development, aiming to promote intelligent, sustainable technologies that respond to real-world needs. As a member of IEEE and the Arab Science and Technology Foundation, and an active contributor on platforms such as ResearchGate and Google Scholar, he continues to influence the regional and international AI research community.

# INTRODUCTION AND FOUNDING VISION OF THE AI2SD CONFERENCE

The International Conference on Advanced Intelligent Systems for Sustainable Development (AI2SD), founded by Professor Mostafa EZZIYYANI, is a leading platform for promoting artificial intelligence in key sustainable development areas such as health, education, energy, environment, agriculture, and the circular economy.

Built on an innovative Public-Academic-Private (PAP) collaboration model, AI2SD aims to:

- Align scientific research with national and regional priorities,
- Turn research outcomes into real-world solutions through industrial partnerships,
- Strengthen young researchers' employability,
- Build a sustainable innovation ecosystem.

Today, AI2SD stands as a unique collaborative model, positioning Morocco and its partners as key players in human-centered AI for development.







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# OVERVIEW

key factors

Mission & Vision & Strategy

Waytech Presentation

Hackathon Overview

# 01

# KEY FACTORS



## Networking & Collaborations Opportunities

Renowned conferences provide exceptional networking opportunities with researchers, experts, professionals and decision-makers from around the world



## Quality of Speakers, Researchers and Content

The presence of world-renowned speakers in relevant fields attracts attention and ensures high-level discussions. High-quality presentations, and parallel sessions.



## Innovation and Advancement of Knowledge

Leading international conferences showcase the latest research, technological advancements, and emerging trends in their respective fields



## Creating Jobs Fields

Creating jobs fields encompass emerging industries and roles driven by technological advancements, including AI, renewable energy, cybersecurity, data science, and remote work facilitation.



## Advanced Medicare

Advanced Medicare utilizes cutting-edge technology to improve healthcare outcomes, optimize patient care, and enhance medical services through innovation and digitalization.



## Focus on Education

Focusing on education involves enhancing teaching methodologies, personalized learning experiences, digital literacy, STEM education, and lifelong learning opportunities to prepare students for future careers.



# MISSION & VISION & STRATEGY

AI2SD (Artificial Intelligence for Sustainable Development) is dedicated to utilizing artificial intelligence (AI) to address global sustainability challenges. Our mission is to foster collaboration, innovation, and knowledge exchange to advance AI-driven solutions that promote environmental conservation, social equity, and economic development.



## COLLABORATION

Collaboration in research cultivates synergy, diversity of perspectives, and collective efforts, advancing knowledge, innovation, and addressing complex societal challenges.

## INNOVATION

Innovation and research drive progress, solving challenges, fostering creativity, and advancing knowledge to shape a better future for society's well-being and prosperity.

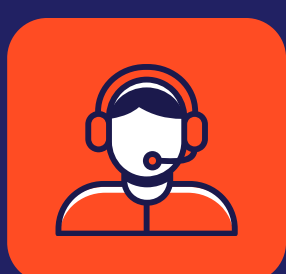


## KNOWLEDGE EXCHANGE

Knowledge exchange and research promote collaboration, sharing insights, fostering learning, and driving innovation for collective progress and societal advancement.

## COUNTRY ECONOMIC

Country economic innovation influences growth, competitiveness, and societal progress through technological advancements, entrepreneurship, research investment, and regulatory frameworks fostering innovation ecosystems.



## CAPACITY BUILDING

Capacity building for innovation involves developing skills, infrastructure, and resources to foster creativity, entrepreneurship, and technological advancement, driving sustainable growth and development.

## B2B & B2C

The objective of the meeting is to delve into the nuances between B2B (business-to-business) and B2C (business-to-consumer) strategies, aiming to identify tailored approaches for effective market engagement and sustainable growth.





# **GENERAL STATISTICS**

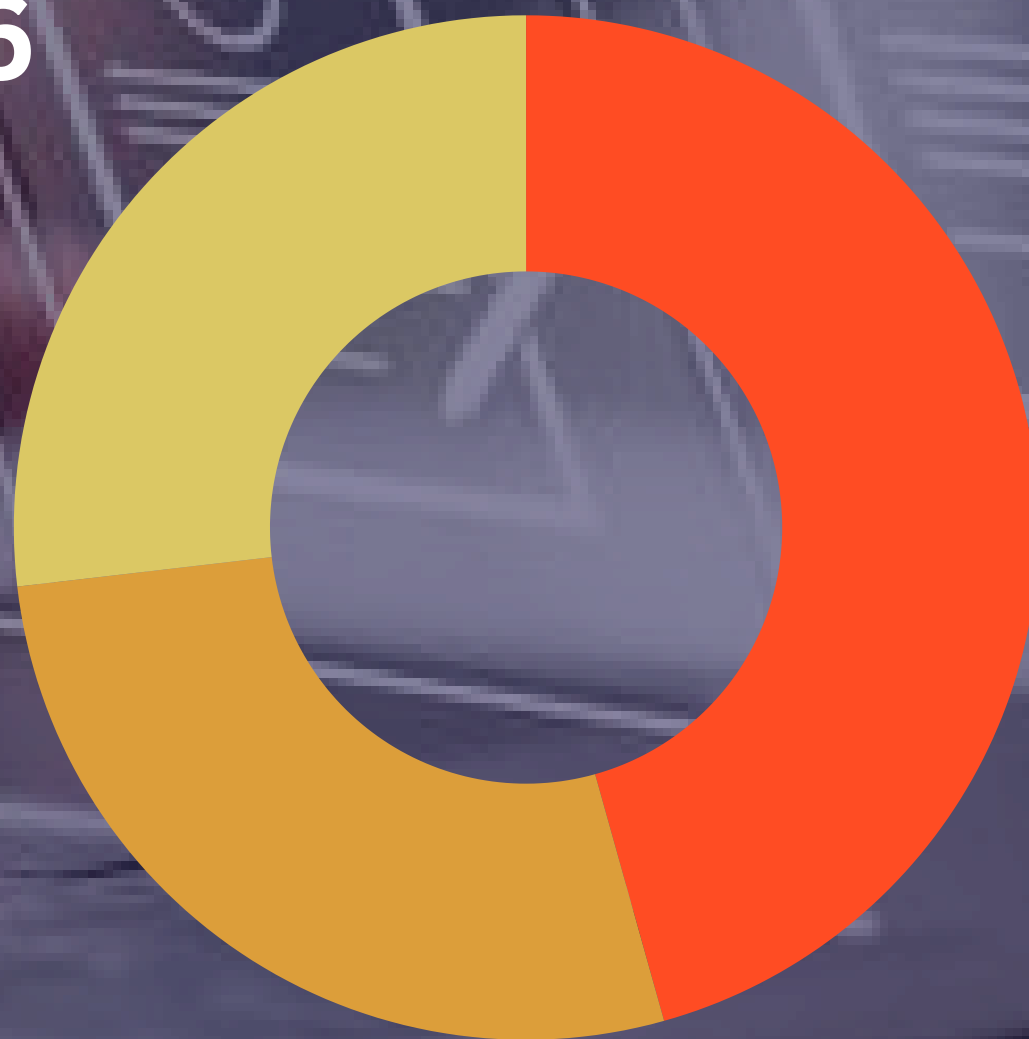
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2024

# STATISTICS & PRODUCTIONS ABOUT **AI2SD**

Published  
1536



Submissions  
2613

Accepted  
1574

Volumes 24

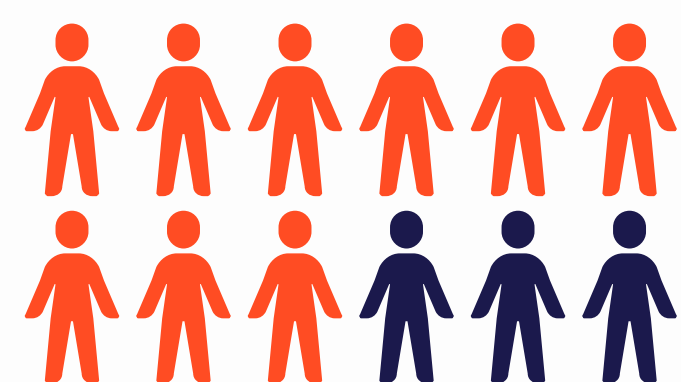
Public Instituts 34

stockholders 64

Foundations 14

Countries 56

SPEAKERS 222





# COMMITTEE

CHAIRS

SYMPOSIUM CHAIRS

SYMPOSIUM CO-CHAIRS

HONORARY PRESIDENTS

INTERNATIONAL HONORARY GUESTS &

HONORARY GUESTS

# 03



# CHAIRS



**Prof. Mostafa EZZIYYANI**

*General Chair Abdelmalek  
Essaadi University Morocco*



**Prof. Janusz KACPRZYK**

*Honorary Chair Polish Academy  
of Sciences Poland*



**Pr. Valentina Emilia Balas**

*Honorary Chair Aurel Vlaicu  
University of Arad Romania*

# HONORARY PRESIDENTS



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*Minister of Industry and Trade*



**Mr. Ezzedine El Madaoui**

*Minister of Higher Education,  
Scientific Research, and Innovation*



**Mr. Nizar Baraka**

*Minister of Equipment and Water*



**Mr. Ahmed Bouari**

*Minister of Agriculture, Maritime  
Fisheries, Rural Development, and  
Water and Forests*



**Mr. Younes Sekkouri**

*Minister of Economic Inclusion,  
Small Enterprises, Employment,  
and Skills*



**Ms. Leila Benali**

*Minister of Energy Transition and  
Sustainable Development*



# PARTNERSHIP OF SOCIO-ECONOMIC CHAIRS



**Mr. Abdelatif AFAILAL**  
*President of CCISTTA - Morocco*



**Mr. Omar MORO**  
*President of the Regional Council*



**Mr. Mounir Lymouri**  
*le Maire de Tanger*



**Mr. Houssein BEN TAIB**  
*parliamentary deputy and Vice president of CCISTTA Region - Morocco*



**Mr Taoufik El borch**  
*Vice président du CRTTA*



**Nabil EL KHAMLIHI**  
*Member Of The Chamber Of Commerce, Industry Of The Tangier Region Morocco*



**Mr. Mohamed YAJJOU**  
*Head of Support and Promotion Department at CCISTTA - Morocco*



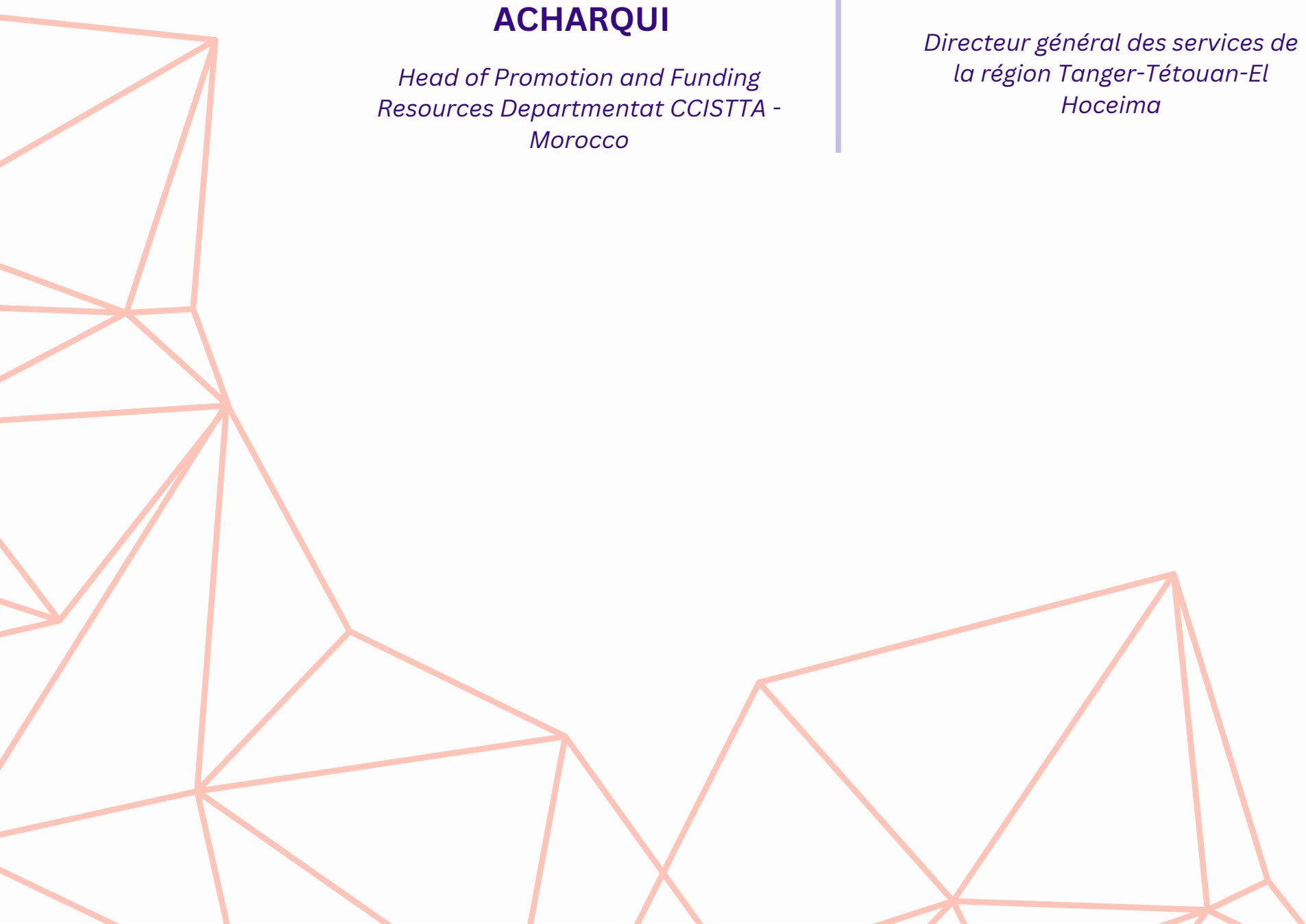
**Mr. Abderrahym ACHARQUI**  
*Head of Promotion and Funding Resources Departmentat CCISTTA - Morocco*



**Rabie EL KHAMLIHI**  
*Directeur général des services de la région Tanger-Tétouan-El Hoceima*



**Dr. Najwa Aknin**  
*Cheffe du département de planification et de programmation Région Tanger-Tétouan-Al Hoceima*





# CO-CHAIR



**Prof. Loubna CHERRAT**  
*AI2SD2024 Scientific Production*



**Prof. Mohammed Rida Ech-Cherrat**  
*AI2SD VIP & Honorary Guest  
Relationship coordinator*



**Dr. Youssef BENMESSOUD**  
*WayTech National Exhibition  
Coordinator*



**Dr. SalmaChrit**  
*Special Panels Coordiantor*



**Prof. Asmae CHAIK**  
*Protocol and International  
Collaboration Coordiantor*



**Mm. Lamia El Mazigi**  
*AI2SD Communications Strategy  
Manager*



**Mr. Essam BENALLAL**  
*WayTech International Exhibition  
Coordinator*



**Dr. Soumaya El Mamoun**  
*AI2SD Summer School  
Coordiantor*

# HONORARY GUESTS AND KEYNOTE SPEAKERS



**Dr. Nabil Mohamed Ahmed**  
*Minister of Higher Education  
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**Dr Hayssam Jaffan**  
*President of the Arab  
Federation for Food  
Industries*



**Prof. Abdelmajid BenAmara**  
*Head of the Federation of  
Arab Scientific Research  
Councils - League of Arab  
States  
Tunisia*



**Pr. Faize GARGOURI**  
*Sfax University Tunisia*



**Dr. Jamal Ahmed Yaqoub Kamal**  
*Secretary General of the  
Arab Union for Sustainable  
Development  
Kingdom of Bahrain.Bahrain*



**Dr. Ibrahim Ahmed Al-Dukhairi**  
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(AOAD) Soudun*



**Mme. Mbaranga Gasarabwe**  
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Nations in Mali and  
Honorary President of the  
CDA and President of the  
scientific Council Rwanda*



**Dr. Touré Hamadoun**  
*Former secretary general of  
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ITU and Honorary President  
of the CDA and President of  
the scientific Council Mali*



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*EUROMED UNIVERSITY FES MOROCCO*



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*Obuda University, Budapest, Hungary*



**Prof. Muazzam A. Khan Khattak**  
*Quaid-i-Azam University, Islamabad Pakistan*



**Dr. Yu Junyong**  
*CEO of Zhe Jiang Chaoxing New Energy- China*



**Dr. Chen Xi**  
*General manager Kingway Group overseas business department minister, Xingwei Aviation Technology Co., LTD - China*



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*Specialist in occupational medecine Membre of the C3M network Morocco*



**Prof. Amal Bouich**  
*Polythnic of Valance Valancia - Spain*



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*EMSI - Marrakech*





**Dr. Mohammed Aggouri**  
*General Director of CHU of Tangier*



**Prof. Samir BELFKIH**  
*Director OF ENSAM of Rabat Morocco*



**Dr. Rachid MENTAG**  
*Director INRA OF Rabat Morocco*



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*ITTF - Morocco*



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*General Secretary of the International society for Telemed and eHealth, Belgium*



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Morocco*



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*Abdelmalek Essaadi  
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**Mr. Amadou Diawar**  
*Bamako - Mali*



**Prof. Hassan Ghazal**  
*CNRST  
Rabat - Morocco*



**r. Ahmed Allam**  
*President of the World  
Association of Sustainable  
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**Prof. Oussam Rays**  
*Arab Organization for  
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**Prof. Nabil JEDLANE**  
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**Prof. Mohammed  
EZZIYYANI**  
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**Prof. Hicham CHAIRI**  
*FPL - Morocco*



**Prof. Abad**  
*Morocco*



**Prof. Salma**  
*FPL -Morocco*



**Prof. Bouchaib KHADARI**  
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**Prof. Hmimsa**  
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**Prof. Karim el fakhouri**  
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*ISITT - Morocco*



**Prof. Said Barrijal**  
*FST of Tangier - Morocco*







# AI2SD'2025 EVENTS

180 Seconds Challenge  
HackaTHON  
WayTech

# 04





# POSTER SESSION

**Date: 22-05-2025      Time: 09:00H To 15:00H**

**Place: Palace of Arts and Culture**

| ID     | Corresponding Author                                                                                                                                                                                 | Title                                                                                                                                                        |
|--------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 636568 | Hanae Bellaali, Younes El Fellah and Wafae El Khoumsi                                                                                                                                                | Desalination and green hydrogen nexus                                                                                                                        |
| 639740 | Mohammed Amine Moussaoui, Soufiane Derfoufi, Youssef Admi, El Bachir Lahmer, Ahmed Mezrhab                                                                                                           | HTLBM-simulation of natural convection flow in pentagonal enclosure with two blocks                                                                          |
| 636583 | Fadwa Tayeb, Dounia Chaatouf, Soufiane Derfoufi                                                                                                                                                      | Numerical study of a transparent window with integrated phase-change material under Tangier's climate, Morocco                                               |
| 642765 | ALBARE Aya, CHARIF OMAR, OUAID Mohamed Amine, DRAOUI Abdeslam and DERFOUFI Soufiane                                                                                                                  | Optimization of Air Conditioning and Lighting Systems for Energy Efficiency in Moroccan Trains: A Dynamic Simulation                                         |
| 636736 | Fadoua Laghrib, Tarik Bahaj, and Mohamed Hilali                                                                                                                                                      | Assessment of the Water Quality index for the Groundwater in the aquifers of the South-Atlas Tinghir-Errachidia-Boudenib basin (Pre-African Trough, Morocco) |
| 636964 | Islah EL Yagoubi, Mohamed El Ghachi Jalal Aguerd, Hasan Ouakhir                                                                                                                                      | Flash flood event assessment using different rainfall datasets within El Abid river basin (Central High Atlas/Morocco)                                       |
| 635907 | Hasan Ouakhir, Larbi Bahrazi, nadia Ennaji Mimoun Goumih Aziz Maziane El Mostafa Atiki Asmae Nouayti Bouazza Sallak                                                                                  | Effect of population growth on health and environment quality within the Beni Mellal -Khenifra region: Application of machine learning techniques            |
| 634176 | Jocelyn Fabrice SANTIO                                                                                                                                                                               | The evolution of customer segmentation methods using Machine Learning: state of the art and implications for the Moroccan market                             |
| 637073 | ABDELLAOUI Smail, OUAZZANI TOUHAMI Amina, Benkiran Rachid2, DOUIRA Allal, and El AISSAMI Aicha                                                                                                       | Synergistic effect of Trichoderma harzianum and mycorrhizae in the fight against date palm fusariosis                                                        |
| 636826 | Ismail Ait Mellal, Salma Lahbabi, Khalid Dahi                                                                                                                                                        | Combining LightGBM and Deep Learning for Fault Detection in Induction Machines: Monitoring Optimization                                                      |
| 642750 | Yassine Sekkour, Abdelaziz Essadik and Elmaati Essoukaki Youcef Maziane, Hasan Ouakhir                                                                                                               | Analysis of challenges of telemedicine within Morocco: A case study of teleconsultation within the Beni Mellal- Khenifera Region (Morocco)                   |
| 647385 | Abdellah Idrissi Azami, Mariam Laatifi, Essalihi Amina, Najib Alidrissi, Hassan Ghazal                                                                                                               | Comprehensive Variant Analysis of Monkeypox Virus Genomes with AI-Assisted Insights                                                                          |
| 646446 | Abdellah Idrissi zami, Mustapha Lemsayah, Najib Al Idrissi, Hassan Ghazal                                                                                                                            | CovMa: An Integrated Web Platform for the Interpretation of SARS-CoV-2 Genomic Variants via Automated Bioinformatics and Machine Learning Workflows          |
| 646441 | Soumaya Jbara, Aram Elheni, Sara Fadel, Sara Ouled Saber, Youssef Jaziri, Chaima Ben Yedder, Slim Skhab, Ranim Ben Amara, Achref Elarbi, Najib Al Idrissi, Rajae Tissir, Asma Amdouni, Hassan Ghazal | AI-based identification of microbial signatures for early colorectal cancer diagnosis                                                                        |





# **180 SECONDS SESSIONS**

Each candidate has 3 minutes

Date: 22-05-2025 Time: 17:00H To 19:00H

**PARALLEL SESSION 1:**

Place: ENSI  
Room: Room 1



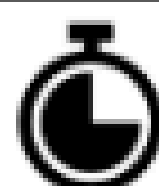
***Each candidate has 3 minutes***

| ID     | Corresponding Author                                                                     | Title                                                                                                                                                                                                          |
|--------|------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 636624 | Khouloud El Meziani                                                                      | The impact of service quality dimensions of Brady & Cronin on customer satisfaction in the hotel industry in Tangier-Tetouan-Alhoceima region                                                                  |
| 636767 | Alae KHENACHAR and Sarah CHETOUANI                                                       | Incorporating Artificial Intelligence to support sustainable tourism: Engaging Eco-conscious travelers in emerging Moroccan destinations to foster equitable economic growth and environmental responsibility. |
| 631580 | Chaimae Adadi, Hakim Jebari, Naoufal Sefiani                                             | Industry 5.0: Harnessing Human Creativity and AI for a Sustainable Future                                                                                                                                      |
| 643458 | Khair Abdelhamid, Belmouffeq Bouchra                                                     | AI and Professional Practices in Private Employment Intermediation in Morocco: Between Technological Promises and Usage Realities                                                                              |
| 643174 | Saadeddine Tazili, Abdeljebar Mansour, and Mohamed Yassin Chkouri                        | Integration of AI in Cybersecurity: Current Trends with a Focused Look at Intrusion Detection Applications                                                                                                     |
| 643647 | Sawsane Saidi, Abdelmounaime Dachry, Wafaa Dachry                                        | Barriers to Circular Economy Adoption in the Pharmaceutical Industry: A Multi-Criteria Analysis Using AHP                                                                                                      |
| 645533 | Yassir Haouati                                                                           | A Protocol-Layer Infrastructure for Sustainable Intelligent Systems                                                                                                                                            |
| 636783 | Raoya Khachani, Ouïam El Galiou, Arakrak Abdelhay, Amin Laglaoui, Mounir Hassani Zerrouk | Stability of mechanical and physico-chemical properties of pectin-based film incorporated with Rosmarinus officinalis, Syzygium aromaticum essential oils.                                                     |
| 631919 | Samira Khalfaoui, and Abdellah Azmani                                                    | FSMicroGenerator: Bridging Software Sustainability and Automation in Microservices Engineering                                                                                                                 |
| 642760 | Hamza AYASS & Hassane ZOUIRI                                                             | Africa's Atlantic coast : What place for the city of Dakhla in the Atlantic Africa initiative?                                                                                                                 |
| 643786 | Fatima Kassouh, Abdeljebar Mansour, and Yassine El Younoussi                             | Integration of AI into RPA: A Review of Current Applications and Trends                                                                                                                                        |
| 643318 | Safae Elmisaoui                                                                          | Integrating Metamodeling with High-Performance Computing to Enhance Large-Scale CFD Simulations                                                                                                                |



**PARALLEL SESSION 2:**

Place: ENSI  
Room: Room 2

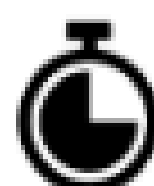


**Each candidate has 3 minutes**

|        |                                                                                                       |                                                                                                                       |
|--------|-------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------|
| 643322 | Safae Elmisaoui, John Redford, Fikri Hafid and Jean-Michel Ghidaglia                                  | Exploring FSI modeling approach on Multi-Mode Behavior in Full-Span Conductors                                        |
| 643626 | Khadija Bekkay Haouari, Mustapha Ouardouz                                                             | Multi-material FDM printing for microfluidic applications: parameter optimization using a Taguchi-based doe framework |
| 636903 | Nouhaila El Koufi                                                                                     | An ML and Feature Engineering Based-Approach for Precision Marketing in Omni-Channel Business: A Case Study of Rabat  |
| 636831 | Nour-Eddine Moumni, Rachid Alaoui, Driss Kiouach, and Ibrahim El-Fedany                               | Intelligent Connectivity Simulation for Electric Vehicle Charging Coordination Using IoT                              |
| 636770 | Roeya Refaei, Nabil Allali, Paul Demian, and Mouad Lamrani                                            | Polyphenols and Peptoid Surface modification to enhance rigid contact lenses.                                         |
| 642759 | Oumayma Hilal, Imane Chahdi                                                                           | Smart Education Systems for Sustainable Tourism: Technological Empowerment of Tour Leaders in Fragile Communities     |
| 642782 | Doha Ait tillasse                                                                                     | A Conceptual Framework for AI-Enhanced Early Warning Systems for Flash Floods in Vulnerable Regions of Morocco        |
| 644124 | Belhaj Kawtar, Alaoui Hafidi Adil, Zaher Mounir                                                       | Mechanical Behaviour of Recycled Concrete Aggregates in Sustainable Construction                                      |
| 636546 | SMAIL ES SELLAMI, Taleb Abdeslam, Mohammed Elhachoumi, Badr Elfathi                                   | Water Quality Assessment of Wadi Oum Er-Rbia: Impact of Temperature and Flow on the Conductivity                      |
| 643295 | Es-Saqat Hajar, Mansouri Khalifa, Qbadou Mohammed, Semmar Atae, Khalfaoui Ibtissam and Medromi Hicham | Bioremediation of Brine Using Halophytic Organisms: Combining These Organisms for Future Research                     |
| 636842 | Chaimae FAHIL, Saida GUENBOUR                                                                         | Climate change and water scarcity in Africa: what prospects for Morocco?                                              |
| 643137 | IRO Chapiou, EL ANSARI Loubna, JBAIHI Ouafae, AMARI Aroua ,MACHKOUR Nadia                             | Review of Water Optimization Methods in Agricultural Practices                                                        |

**PARALLEL SESSION 3:**

Place: ENSI  
Room: Room 3



***Each candidate has 3 minutes***

| ID     | Corresponding Author                                                                                                 | Title                                                                                                                                                         |
|--------|----------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 643555 | Amine Sarhrani, Mohamed Sadiki, Yousra Hamoumi, Nouhaila Lassfar, and Abdelhak Bouabdli                              | Coastal dune vulnerability, trends, and challenges: A systematic review and bibliometric analysis                                                             |
| 643132 | Boubacar Sidibé, Loubna El Ansari, Safae ElHir, Ikram Debbarh and Mohamed Sadik                                      | Improving seed management by using AI: Challenges and opportunity                                                                                             |
| 643313 | Sara Sahraoui, Mourad Bouziani, Reda Yaagoubi, Zakariae Haraz, Lahcen Kenny, Abdelkhalek Ezzahri and Soukaina Boujdi | A smart Web GIS application integrating IoT, Open Data and AI to optimize irrigation decision-making                                                          |
| 636631 | BAYDI Khaoula, DERKAOUI Khalid                                                                                       | L'Intelligence Artificielle pour Réduire la Fracture Numérique en Education au Maroc                                                                          |
| 630677 | Luben Boyanov, Daniela Tzvetkova, Nikolay Vankov                                                                     | Sustainability and digitalization of education in Bulgaria - a case study                                                                                     |
| 636393 | Mouad CHAT, Ayoub AIT OUAALI, Manar BEN BOUMEDIANE, Noureddine ZGHIDA, and Rachid JANATI-IDRISSI                     | The Future of Education: The Role of Teachers and students in a World Dominated by AI                                                                         |
| 636853 | BOUZAR Aziza, LIEMHLAHI Hoda, MADRANE Mourad                                                                         | Comparative study on the critical use of generative AI in midwifery education: student assessment through an inventory of critical thinking dispositions CTDI |
| 636864 | Zine Elabidine FANNI, AbdelHalim LAKRARSI                                                                            | STEAM Education in Higher Education: A Systematic Review of Impacts, Challenges, and Opportunities in the Age of Artificial Intelligence                      |



| PARALLEL SESSION4:          |                                                                                                                          |                                                                                                                                                            |
|-----------------------------|--------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Place: ENSI<br>Room: Room 4 |                                                                                                                          |  <u>Each candidate has 3 minutes</u>                                    |
| ID                          | Corresponding Author                                                                                                     | Title                                                                                                                                                      |
| 646440                      | Abdellah Idrissi Azami, Hassan Ghazal                                                                                    | Deciphering Soil–Plant Microbiome Connectivity Through 16S rRNA Meta-Analysis: Integrating Rhizosphere and Endosphere Dynamics Across Diverse Ecosystems   |
| 646433                      | Chifaa ZAARAT, Najat LECHHAB, Jamal KHEYI, Said MAKANI, Hasan GHAZAL, Najib AL IDRISSE, Charafeddine AIT ZAOULAT         | Toward Realistic Synthetic ECG Databases for AI Training in Telecardiology                                                                                 |
| 646437                      | Abdellah Idrissi Azami, Hassan Ghazal                                                                                    | Organoverse: An AI-Powered Pipeline for Accurate Organelle Genome Assembly and Annotation from Whole-Genome Sequencing Data                                |
| 636816                      | Yousra Louhab, Yassine Zahidi, Maha Rezzai, Mohamed El Moufid, Wafaa Dachry, Hassan Gziri, and Hicham Medromi            | Toward Safer Waste Handling in Healthcare: A Preliminary Risk Analysis                                                                                     |
| 636821                      | Achraf AKKAoui, Yassine ZAHIDI, Mohamed ELMOUFID, Wafaa DACHRY, Hassan GZIRI and Hicham MERDOMI                          | Advancements in Machine Learning for Hemodialysis Patient Monitoring and Assistance                                                                        |
| 636738                      | Safaa ECH-CHEIKH, Nassim KHARMOUM, Soumia ZITI                                                                           | Exploring Interventions of Chatbots in Substance Use Disorders and Addictive Behaviours: A Narrative Review                                                |
| 636712                      | Ayman Reffai, Michelle Hori, Raveli Adusumilli, Abel Bermudez, Sharon Pitteri Mohcine Bennani Mechita, and Parag Mallick | Bioinformatics Unveils Stage-Specific Immune Signatures in NPC: Integrating Tissue and Blood Proteomics for Biomarker Discovery                            |
| 636541                      | Khadija Hoummada and Soufiane Derfoufi                                                                                   | Numerical Investigation of Geopolymer Concrete Thermal Energy Storage Systems for Enhanced Thermal Performance                                             |
| 632445                      | Nihad Hamoudan, Hakim Jebari, Kamal Rekloui, and Ahmed Al Mers                                                           | AI and Big Data: Revolutionizing Lithium-Ion Battery Advancements                                                                                          |
| 631249                      | Mohammed Hdid, Hakim Jebari, Hassan Samadi                                                                               | AI-Powered Injection Molding: Advancing Sustainability through Energy Optimization and Waste Minimization                                                  |
| 636537                      | Kawtar Hajbaoui, Dounia Chaatouf, Mohammed Amine Moussaoui, Soufiane Derfoufi                                            | Design and experimental evaluation of a cascade solar distiller under Tangier's climate, Morocco                                                           |
| 633537                      | Mohamed Yasser BOUNNITE, ELKHATTABI Hamza                                                                                | LSTM-Augmented MDPs for Adaptive Decision-Making in Non-Stationary Energy Systems                                                                          |
| 636697                      | Abderrahim Bouhouch                                                                                                      | Distinguishing 5D Black Hole Physics in M-theory on a Calabi-Yau Three-folds using Machine Learning                                                        |
| 643652                      | EL IMAMI Imane, Said Ouatic Elalaoui, Abdelkader Elalaoui, Bassma Guermah                                                | A Systematic Literature Review of Machine Learning and Deep Learning Applications involving ESG Scores: Prediction, Assessment, and Financial Implications |
| 636708                      | Oumaima ISSAILI, Abdelfettah SEDQUI                                                                                      | Regulatory challenges for Blockchain and FinTech adoption in Morocco                                                                                       |



# | **ONLINE SESSIONS**



Date: From 20 To 30 June 2025

PARALLEL SESSION 1:

Link:

Session chairs:

AI2SD'2025 Annual Global Summit – 8th Edition  
Industry 4.0 & Economic Revolution

| ID     | Corresponding Author                                        | Title                                                                                                                                |
|--------|-------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|
| 636799 | Kaoutar MOUSSAS, BOULKHIR LAYLA                             | Artificial Intelligence and Hospitality Resilience: An ARDL Analysis of Crisis Impacts on Financial Performance in Marrakech's Hotel |
| 643177 | Fatima Zahraa Grine, Oulaid Kamach                          | The Impact of Industry 4.0 Tools on Overall Equipment Effectiveness improvement                                                      |
| 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 BADDYOU, DADDA Afaf, RZINE Bouchra, and HMAMED Hala    | Enhancing Predictive Maintenance with Dual-LSTM Modeling: A Real-World Case Study in an Industrial system                            |
| 647523 | Mohamed Boukhelif, Nassim Kharmoum, Mohamed Hanine          | Natural Language to OCL: Leveraging LLMs for Formal Constraint Extraction from Software Requirements                                 |
| 642731 | Maha BENJELLOUN, Afaf DADDA, Hala HMAMED, and Bouchra RZINE | Investigation and categorization of challenges when adopting Industry 4.0 technologies within Lean Six Sigma practices               |
| 636786 | ZYANE Abdellah, JAMIRI Hamza                                | Adversarial Data Injection Attacks on AI-Based Anomaly Detection in OneM2M Common Service Entity                                     |
| 643439 | Sanaa Boumnidel                                             | A study on some positive operators on Banach lattices                                                                                |
| 643326 | Kaoutar TEBBAA, Yassine MALEH, and Mustapha BELAISSAOUI     | Enhancing Intrusion Detection in IIoT Environments: Comparative Analysis of Batch and Online Learning Techniques                     |

Date: From 20 To 30 June 2025

**PARALLEL SESSION 2:**

| Link:                                                                               |                                                                                             | Session chairs:                                                                                                                                                             |
|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| AI2SD'2025 Annual Global Summit – 8th Edition<br>Industry 4.0 & Economic Revolution |                                                                                             |                                                                                                                                                                             |
| ID                                                                                  | Corresponding Author                                                                        | Title                                                                                                                                                                       |
| 636353                                                                              | AHSAIN Sara, LOUZAR Oumaima, EL YUSUFI Yasyn, and AIT KEIR M'hamed                          | Enhancing Digital Marketing with AI: A Machine Learning approach to identify fake reviews on Amazon                                                                         |
| 643373                                                                              | Adiba EL FADL, Chaimae EL-YAZAMI, Majid MOUHIB, and Seddik BRI                              | Arrival Direction of Intelligent Smart Antenna                                                                                                                              |
| 643505                                                                              | Najoua El-khabli, Yassine Zahidi, Mohamed El Moufid, Fouad Moutaouakkil, and Hicham Medromi | Smart and Adaptive Control Systems for User-Centered Wheelchair Mobility                                                                                                    |
| 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 Rekloui                                                  | Coordinating Maintenance and Production for Operational Excellence                                                                                                          |
| 631483                                                                              | Amina Eljyidi, Hakim Jebari, Kamal Rekloui                                                  | Joint Optimization of Maintenance 4.0 and Production via Hybrid Metaheuristics                                                                                              |
| 643642                                                                              | Rania GOUBA, Rachida AALLALI                                                                | Organizational Justice as a Lever for Work Engagement: An Empirical Study                                                                                                   |
| 631581                                                                              | Chaimae Adadi, Hakim Jebari, Naoufal Sefiani                                                | Integrating AI into the 8D Framework: Advancing Problem-Solving for Quality Assurance                                                                                       |



Date: From 20 To 30 June 2025

PARALLEL SESSION 3:

|                                                                                     |                                                                                 |                                                                                                                                        |
|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------|
| Link:                                                                               | Session chairs:                                                                 |                                                                                                                                        |
| AI2SD'2025 Annual Global Summit – 8th Edition<br>Industry 4.0 & Economic Revolution |                                                                                 |                                                                                                                                        |
| ID                                                                                  | Corresponding Author                                                            | Title                                                                                                                                  |
| 636514                                                                              | ET-TOUSY Jamal, ZYANE Abdellah                                                  | Machine Learning and Virtualization Approach for Detecting DDoS Attacks in OneM2M IoT Standard with QoS Impact Analysis                |
| 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                                            |
| 643648                                                                              | Otmame KHTOU, Taoufyq Elansari, Mohamed Ouanan                                  | Case Study on Industry 5.0 in Supply Chain Management: Enhancing Efficiency, Visibility, and Responsiveness for Sustainable Durability |
| 643525                                                                              | Anass Naqqad, Rachid Habachi, and Abdellah Boulal                               | Machine Learning for Cyber Defense in Smart Grids: Recent Advances                                                                     |
| 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                                   |
| 636823                                                                              | Yousra Lotfi, Mohamed Sadik                                                     | A Review on Blockchain Integration for Securing Cloud Computing                                                                        |
| 636713                                                                              | OUASSAL Laila                                                                   | Managing Artificial Intelligence in Business Organizations                                                                             |
| 636620                                                                              | Fouzia Alloul, and El Mehdi Ferrouhi                                            | Does Temperature Anomaly Still Affect Stock Market Returns? New Evidence from 24 Emerging Markets                                      |
| 636815                                                                              | Abdelhay Hassani Allaf, M'hamed Ait Kbir                                        | AI-Powered Digital Watermarking for Early Fake News Detection and Proactive Mitigation in Online Media                                 |
| 643649                                                                              | Rajaa CHAKOUR, Abdelilah CHELKHA, Maha REZZAI, Hassan GZIRI, Wafaa DACHRY       | Risk Management in Digital Transformation Context                                                                                      |
| 643635                                                                              | Abdelmounaime DACHRY, Sawsane SAIDI, Maha REZZAI, Najat MESSAOUDI, Wafaa DACHRY | Critical Success Factors for Supply Chain with PESTEL Analysis                                                                         |
| 643632                                                                              | Meryeme Adib and Taoufik El Bouzekri El Idrissi                                 | Reaching Sustainability through Digitalization: A Management Control Perspective                                                       |
| 649298                                                                              | CHRIT Salma, IMGHARENE Kawtar                                                   | Enhancing Project Evaluation Through AI-Driven Methods: A Modern Approach to Project Management                                        |

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

**PARALLEL SESSION 4:**

| Link:                                                                               |                                                                                           | Session chairs:                                                                                                                              |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|
| AI2SD'2025 Annual Global Summit – 8th Edition<br>Industry 4.0 & Economic Revolution |                                                                                           |                                                                                                                                              |
| 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                                                 |
| 643645                                                                              | IMGHARENE Kawtar,                                                                         | AI-Enhanced Enterprise Architecture: A Framework for Agile Transformation                                                                    |
| 642452                                                                              | Hanane HADDAD, Maryam EL MOUDDEN, and Jihane ABDESSADAK                                   | Artificial Intelligence Contributions to Risk Management in Public Organizations: An Exploratory Study                                       |
| 636797                                                                              | Somia Ghrara, Ouadia 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                                                                                 |
| 636683                                                                              | Cherkaoui Abdelhai, Ezziyani Mostafa                                                      | Optimization of time series by signal extraction methods with application to monetary data analysis and anti-cyclical economic public policy |
| 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 TALHAOUI, Chaimaa MOUMAD, Marwane HOUNGNON, Mohammed ABBA, Hamza ELKHATTABI | From Similarity Search to Scalable Systems: A Literature Review on the Evolution of Vector Databases                                         |
| 642002                                                                              | Abderrahim Bouhouch                                                                       | Distinguishing 5D Black Hole Physics in M-theory on a Calabi-Yau Three-folds using Machine Learning                                          |

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

**PARALLEL SESSION 5:**

| <b>Link:</b>                                                                             |                                                                                | <b>Session chairs:</b>                                                                                                                                      |
|------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>AI2SD'2025 Annual Global Summit – 8th Edition<br/>Education 4.0 &amp; AI-Learning</b> |                                                                                |                                                                                                                                                             |
| <b>ID</b>                                                                                | <b>Corresponding Author</b>                                                    | <b>Title</b>                                                                                                                                                |
| 641914                                                                                   | Shahad Ahmed Abdulgaffar,<br>Yoosef B. Abushark                                | Aiding Computing and IT Students Choose the Right Electives: An Expert System Approach                                                                      |
| 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                                                                          |
| 635809                                                                                   | Amine AZIZ, Loubna Cherrat<br>,Mostafa Ezziyyani                               | Optimizing Moroccan Higher Education Curricula: A Network Analysis Approach to Accreditation and Module Cohesion                                            |
| 643637                                                                                   | Ayoub Sibari                                                                   | The AI-Empowered Communication Student: Technology Acceptance and Learning Outcomes                                                                         |
| 643432                                                                                   | Khadija TALBI, Soumia<br>BAKKALI, Zineb AIT<br>HADDOUCHANE, and AJANA<br>SOUAD | Developing a Virtual Laboratory for Mechanical & Industrial Engineering in Morocco: A Digital Approach to Sustainable Practical Education and SDG Alignment |
| 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                                                                          |



Date: From 20 To 30 June 2025

**PARALLEL SESSION 6:**

| Link:                                                                        |                                                                                     | Session chairs:                                                                                                                                                              |
|------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| AI2SD'2025 Annual Global Summit – 8th Edition<br>Education 4.0 & AI-Learning |                                                                                     |                                                                                                                                                                              |
| ID                                                                           | Corresponding Author                                                                | Title                                                                                                                                                                        |
| 636389                                                                       | Hanane HADDAD, Maryam EL MOUDDEN, Loubaba RIDA, and Jihane ABDESSADAK               | Exploring the Role of Artificial Intelligence in Higher Education: Insights from Moroccan Students' Perspectives                                                             |
| 636688                                                                       | Loubaba RIDA, Jihane ABDESSADAK, Maryam EL MOUDDEN, and Hanane HADDAD               | AI in Higher Education: A Case Study on Civil Engineering Students On the Northern Region of Morocco                                                                         |
| 636847                                                                       | BOUZAR Aziza, LIEMHLAHI Hoda, ALLALI Abdellatif, MADRANE Mourad                     | Perception of nursing teachers in Morocco towards the impact of generative artificial intelligence on pedagogical methods and the enhancement of students clinical reasoning |
| 636860                                                                       | BOUZAR Aziza, LIEMHLAHI Hoda, MADRANE Mourad                                        | Use of Generative AI in Midwifery Training: A Qualitative Exploration of Students' Perceptions and Its Impact on Decision-Making                                             |
| 636363                                                                       | Jihane ABDESSADAK, Loubaba RIDA, Hanane HADDAD, and Maryam EL MOUDDEN               | Artificial Intelligence in Engineering Higher Education Enhancing Professors' Course Design and Assessment                                                                   |
| 641763                                                                       | Jihane ABDESSADAK, Hanane HADDAD, and Maryam EL MOUDDEN                             | Opportunities and Challenges of Integrating Artificial Intelligence into Engineering Curricula : A state of art                                                              |
| 636930                                                                       | Hind AIOUEJ, Mohamed BADIY, Charaf HAMIDI, Mehdi GAOU, Hicham TRIBAK, Salma GAOU    | A Brief Literature Review on Adaptive Content Recommenders in Personalized Learning Environments                                                                             |
| 643204                                                                       | Abderrafik LAAKEL HEMDANOU, Hamid BARKOUK, Mohammed LAMARTI SEFIAN, Youssef ACHTOUN | Spectral Clustering with Ball Tree for Improved Student Grade Prediction: An Educational Data Mining Approach                                                                |
| 643575                                                                       | Yassine HADDIOUI, M'hamed RAHMOUNI, and Khalid MINAOUI                              | Towards Interoperable Learning Ecosystems: A Systematic Literature Review on Educational Data Integration                                                                    |

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

**PARALLEL SESSION 7:**

| Link:                                                                                                        |                                                                                                                                      | Session chairs:                                                                                                                   |
|--------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|
| AI2SD'2025 Annual Global Summit – 8th Edition<br>Digital Health & AI For the Future Generation of Healthcare |                                                                                                                                      |                                                                                                                                   |
| ID                                                                                                           | Corresponding Author                                                                                                                 | Title                                                                                                                             |
| 640132                                                                                                       | Ismail, El-Mir, Meriem<br>M'dioud, Youssef Er-Rays,<br>Badreddine El Moutaqi and<br>Hamid Ait-Lemqeddem                              | The Impact of Artificial Intelligence on Industrial Engineering in the Healthcare Sector: Applications to Supply Chain Logistics  |
| 631496                                                                                                       | Youssef Er-Rays, Meriem<br>M'dioud, Badreddine El<br>Moutaqi , and Hamid Ait-<br>Lemqeddem                                           | Mapping the Future: AI-Driven Innovations in Medicine – A Scoping Review of Opportunities and Challenges                          |
| 631492                                                                                                       | Youssef Er-Rays                                                                                                                      | The Effects of Artificial Intelligence on Industrial Engineering in Healthcare: Implementation for System Maintenance and Quality |
| 640133                                                                                                       | Ismail, El-Mir, Youssef Er-Rays,<br>Badreddine El Moutaqi, Hamid<br>Ait-Lemqeddem, and Mustapha<br>Ezzahiri                          | Connected Healthcare Systems and AI: Challenges and Opportunities                                                                 |
| 643593                                                                                                       | Hasna FARTIT, Ed-drissiya EL-<br>ALLALY, My Ali BEKRI, and<br>Said BENHLIMA                                                          | Medical Information Extraction and Normalization from Social Media: A Review                                                      |
| 636134                                                                                                       | Rachid Alhyane and<br>Abdelhakim El Boustani                                                                                         | Combining Deep Learning Models for Multiclass Classification of Medical Images                                                    |
| 643214                                                                                                       | Btissam Acim, Nassim<br>Kharmoum, Mostafa Ezziyyani,<br>and Soumia Ziti                                                              | Therapeutic Deepfakes for Mental Health: A Sustainable AI-Based Approach to Scalable, Humanized Digital Care                      |
| 636579                                                                                                       | Imane Hssini, Fatima Ezzahra<br>Achamrah                                                                                             | A Hybrid AI and Robust Optimization Model for Sustainable Blood Logistics                                                         |
| 636857                                                                                                       | Ikram EL JAI, Ikram<br>DEBBARH, Mouad EL<br>MOUZOUN EL IDRISSE,<br>Yassine BASKOUN, Wafaa<br>DACHRY, Hassan GZIRI,<br>Hicham MEDROMI | Dialysate regeneration : Towards Sustainable Hemodialysis                                                                         |
| 636851                                                                                                       | Boubker Zouin, Issam Qaffou                                                                                                          | Implementing a CNN model for Plant Disease Detection                                                                              |

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

**PARALLEL SESSION 8:**

| Link:                                                                                                        |                                                                                                                                                          | Session chairs:                                                                                                                                                                     |
|--------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| AI2SD'2025 Annual Global Summit – 8th Edition<br>Digital Health & AI For the Future Generation of Healthcare |                                                                                                                                                          |                                                                                                                                                                                     |
| 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                                                                                                               |
| 636729                                                                                                       | FADIL mbark, KRIM mustapha, BEN EL FAKIR makrame                                                                                                         | validation of a monte carlo simulation of gamma knife radiocheology system by the GATE/GEANT4 platform                                                                              |
| 642879                                                                                                       | Bader Edkhil, Mohamed Sadik, Abderrahim Fail                                                                                                             | Innovative Beamforming Techniques for Enhanced Ultrasound Image Quality                                                                                                             |
| 642865                                                                                                       | Jaafar Ahadad, Hicham Behja, and Hicham Medromi                                                                                                          | Advancements in Smart Compression Therapy Garments: A Review of the Role of Artificial Intelligence in Healthcare Solutions                                                         |
| 636801                                                                                                       | Afaf Elarfaoui, Mohamed Sadik, Hicham Medromi                                                                                                            | Revolutionizing Cardiovascular Monitoring Through Advanced Technologies and AI Integration: A Contemporary Review                                                                   |
| 636379                                                                                                       | Ismail Ait Talghalit, Hamza Alami, and Said Ouatik El Alaoui                                                                                             | Multi-Label Classification of Arabic Mental Health Questions and Answers Using Transformer Models and Contextual Semantic Embeddings                                                |
| 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 Alidrisi , Hassan Ghazal                                                                                                                            | AI-Assisted Genomic Analysis of Measles Virus Reveals No Outbreak-Specific Variants                                                       |
| 646445                                                                                                                         | Abdellah Idrissi Azami, Hassan Ghazal                                                                                                                                                                                | AI-Assisted Identification and Comparative Analysis of Tocopherol Biosynthesis Genes in African and Mediterranean Medicinal Plants        |
| 646443                                                                                                                         | Abdellah Idrissi Azami, Zainab El Ouafi, Nihal Habib, Douae El Ghoubali, Sofia Sehli, Mustapha Lemsayah, Hassan Ghazal                                                                                               | Multiomic Correlations Between Organelle and Nuclear Genomes in Plants and Animals: A Comparative Genomic Mining Approach                 |
| 643641                                                                                                                         | Jamal OUHATNA, Mostafa EZZIYYANI                                                                                                                                                                                     | Integration of Artificial Intelligence in Real-Time Adaptive Radiotherapy Systems to Enhance Dynamic Personalization of Cancer Treatments |
| 636577                                                                                                                         | Jawad Benabderrahmane, Mohammed Kasri, Inssaf El Guabassi and Abderrahim Beni-Hssane                                                                                                                                 | Detecting diabetic retinopathy using transfer learning techniques                                                                         |
| 646430                                                                                                                         | Fadel Sara, Nihal Habib, Soumaya Jbara, Sara ouled Saber, Salsabil Hamdi, Fadil Bakkali, Rachid El Jaoudi, Wissal Maher, Imane Allali, Lahoucine Bahi, Najib Al Idrissi, Chakib Nejjari, Wajih Rhalem, Hassan Ghazal | Microbiome Profiling of Human Breast Tissue Reveals Correlations with Prognostic and Immunological Features in Breast Cancer              |
| 646442                                                                                                                         | Fadel Sara, Nihal Habib, Soumaya Jbara, Sara ouled Saber, Salsabil Hamdi, Fadil Bakkali, Rachid El Jaoudi, Wissal Maher, Imane Allali, Lahoucine Bahi, Najib Al Idrissi, Chakib Nejjari, Wajih Rhalem, Hassan Ghazal | Bioinformatics Analysis of Exomes from Nigerian Breast Cancer Patients                                                                    |
| 647432                                                                                                                         | Hassan Ghazal, Oumaima Achour                                                                                                                                                                                        | Comparative Gut Microbiome Analysis in Japanese Endurance Athletes and Non-Athletes Using 16S rRNA Sequencing                             |

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PARALLEL SESSION 10:

| Link:                                                                                                        |                                                                                                                       | Session chairs:                                                                                                                                             |
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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                                                                                                                                                       |
| 647431                                                                                                       | Hassan Ghazal, Aya En-Nesyry                                                                                          | Uncovering Microbial Diversity in Elite Martial Artists through Amplicon Sequence Variant Profiling                                                         |
| 636809                                                                                                       | Hicham LOUMISSI, Adil BARRA, Najat MESSAOUDI, Othmane ELBADLAOUI, Bahloul BENSASSI and Hicham MEDROMI                 | Adaptive Hybrid Filtering for Noise Reduction in Photoplethysmography Signals                                                                               |
| 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:**

| Link:                                                                                                        |                                                                                                                                                                                                           | Session chairs:                                                                                                  |
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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 <i>Bornella anguilla</i>                      |
| 649703                                                                                                       | SARAH KHROUCH, Loubna Cherrat, Mostafa Ezziyyani                                                                                                                                                          | Leveraging MDP for Precision Optimization of Breast Cancer Therapeutic Strategies                                |



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**PARALLEL SESSION 12:**

| Link:                                                                               |                                                                                                           | Session chairs:                                                                                                    |
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| AI2SD'2025 Annual Global Summit – 8th Edition<br>Green Energy & Smart Environnement |                                                                                                           |                                                                                                                    |
| 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 JOUTCHA, 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 Rekloui, 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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### PARALLEL SESSION 13:

| Link:                                                                               |                                                                                            | Session chairs:                                                                                                       |
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| AI2SD'2025 Annual Global Summit – 8th Edition<br>Green Energy & Smart Environnement |                                                                                            |                                                                                                                       |
| ID                                                                                  | Corresponding Author                                                                       | Title                                                                                                                 |
| 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, BOUROUHOU 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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**PARALLEL SESSION 14:**

| Link:                                                                   |                                                                                                                 | Session chairs:                                                                                                                                                                            |
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| AI2SD'2025 Annual Global Summit – 8th Edition<br>Water & Climate Change |                                                                                                                 |                                                                                                                                                                                            |
| 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 Laouan, 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:**

| <b>Link:</b>                                                                        |                                                                                                      | <b>Session chairs:</b>                                                                                                                                 |
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| <b>AI2SD'2025 Annual Global Summit – 8th Edition<br/>Water &amp; Climate Change</b> |                                                                                                      |                                                                                                                                                        |
| <b>ID</b>                                                                           | <b>Corresponding Author</b>                                                                          | <b>Title</b>                                                                                                                                           |
| 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, Sebastiane 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:**

| Link:                                                                            |                                                                                                                            | Session chairs:                                                                                                                                             |
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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 <i>Homalothecium lutescens</i> and <i>Homalothecium sericeum</i> : 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:**

| Link:                                                                            | Session chairs:                                                                                                             |                                                                                                                                                                |
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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 exportation: 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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PARALLEL SESSION 18:

| Link:                                                                      |                                                                              | Session chairs:                                                                                                                       |
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| AI2SD'2025 Annual Global Summit – 8th Edition<br>Smart City & Urbanisation |                                                                              |                                                                                                                                       |
| 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>ATTIAOU 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, 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                            |



Date: From 20 To 30 June 2025

**PARALLEL SESSION 19:**

| Link:                                                                      | Session chairs:                                                                                                             |                                                                                                                                                 |
|----------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|
| AI2SD'2025 Annual Global Summit – 8th Edition<br>Smart City & Urbanisation |                                                                                                                             |                                                                                                                                                 |
| ID                                                                         | Corresponding Author                                                                                                        | Title                                                                                                                                           |
| 641976                                                                     | Adil EL ARFAOUI, Ismail<br>ESSAMLALI, Hasna NHAILA,<br>Mohamed EL KHAILI                                                    | Spatio-Temporal Modeling of Air Quality Data Collection Using Urban<br>Bus Networks: Case of Mohammedia City                                    |
| 649702                                                                     | Dchieche Amina, Zniber Elarabi<br>, El Alaoui Abdelkader, Oustik<br>El Alaoui Said, Haouba<br>Khadijetou and Bitouai Fatima | Exploring ESG Influence on Rental Real Estate Performance and Practices:<br>A Bibliometric Analysis and Literature Review                       |
| 643148                                                                     | Naila Belhaj Soulam, Hassan<br>Azzimoussa                                                                                   | Innovation at the heart of Smart Tourism Destinations: A qualitative<br>research applied to Moroccan case                                       |
| 636560                                                                     | Lina Hamdi                                                                                                                  | The Future of Space Travel: Colonizing Mars and Beyond                                                                                          |
| 636695                                                                     | MOHAMED EL HAMDOUNI,<br>ABDERRAHIM TAHIRI                                                                                   | Making decision in smart home using context ontology rules base and<br>software engineering                                                     |
| 637786                                                                     | Yahya HASSINE, Kaoutar<br>ALHADERI                                                                                          | The Role of Digital Transformation on Smart Cities: A Systematic<br>Literature Review                                                           |
| 642477                                                                     | Bouazza SALLAK, Zaineb<br>LAHDACHI, Jihane<br>LAHROUR                                                                       | Habitat Post-Sismique en Al Haouz :<br>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<br>(Office for Skills Training and the Promotion of Work) in Morocco. |

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

Date: From 20 To 30 June 2025

**PARALLEL SESSION 20:**

| Link:                                                                                                    |                                                                | Session chairs:                                                                                                                                        |
|----------------------------------------------------------------------------------------------------------|----------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>AI2SD'2025 Annual Global Summit – 8th Edition</b><br><b>Fintech And Digital of Financial Services</b> |                                                                |                                                                                                                                                        |
| ID                                                                                                       | Corresponding Author                                           | Title                                                                                                                                                  |
| 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                        |



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SUPPORTED BY:

MINISTRY OF INDUSTRY AND TRADE

MINISTRY OF AGRICULTURE, MARITIME FISHERIES, RURAL DEVELOPMENT, WATER AND FORESTS

TANGIER-TETOUAN-AL HOCEIMA REGIONAL COUNCIL

MUNICIPALITY OF TANGIER

# HACKATHON

## FOUR THEMES

**240,000 MAD IN PRIZES TO BE WON**

- Smart Cities
- Territorial Intelligence
- Smart Agriculture
- Industrial Innovation



FOR EACH THEME, A TOTAL OF 60,000 DH:

## VALUE PRIZE

1<sup>st</sup> place: 30 000 DH

2<sup>nd</sup> place: 20 000 DH

3<sup>rd</sup> place: 10 000 DH



# PRESENTATION OF THE AI2SD 2025 HACKATHON

As part of Morocco's Digital Strategy 2030, the AI2SD 2025 Hackathon is organized alongside the international AI2SD conference to engage students and professionals in solving the country's digital challenges through innovation and teamwork.

Gathering 100 to 150 participants from computer science and mathematics fields, this first university hackathon promotes hands-on learning, interdisciplinary collaboration, and direct interaction with industry experts.

Participants will tackle real problems across four key themes:

- Smart Cities
- Territorial Intelligence
- Industrial Innovation
- Smart Agriculture

The goal is to foster a thriving innovation ecosystem where technology, creativity, and entrepreneurship merge to build a sustainable digital future for Morocco.







# **LIST OF SELECTED PROJECTS**

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# HACKATHON

## Agriculture Intelligente



# AGRICULTURE INTELLIGENTE

| Nom & Prénom                                    | Titre du projet                                                                                                                                                                 |
|-------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Abderrahmane Aqachtoul ELAMRANI<br>Abderrahmane | Agrigent: AI-Powered Decentralized Agent-based System for Smart Agriculture<br>An Intelligent Blockchain-based IoT Platform for Enabling Community Water Management and Sharing |
| Fatima-azzahra hamdaoui                         | RecoCult                                                                                                                                                                        |
| BENLAMALEM Saida                                | SmartWeedNet                                                                                                                                                                    |
| SEBRI KARIMA                                    | LeafScan AI: Diagnostic intelligent des maladies des plantes                                                                                                                    |
| CHABLOU Amina                                   | HydrA'MA                                                                                                                                                                        |
| Hajoub Mohamed Walid                            | Towards Smart Agriculture: Real-Time Monitoring and Automated Plant Disease Detection                                                                                           |
| OUAZZANU TAYBI ILYAS                            | potabilité de l'eau                                                                                                                                                             |
| OUHADDOU Youness                                | AgriNova AI: Smart Agriculture Solution                                                                                                                                         |
| Sabir Achraf                                    | Zira3Ti                                                                                                                                                                         |
| Salih El Mehdi                                  | AgriLik                                                                                                                                                                         |
| Bana Imane                                      | MIYAH BLADI : Système intelligent d'irrigation et de détection de fuites pour une gestion durable de l'eau                                                                      |
| ELAIMA IKRAM                                    | BODOOR                                                                                                                                                                          |
| EL-BOUTI FARAH                                  | Intelligent Irrigation System Using Artificial Intelligence (ILIA).                                                                                                             |
| Chaimae Ouarab                                  | Nabtacheck                                                                                                                                                                      |
| meryem bouznad                                  | AquaGenius                                                                                                                                                                      |
| KISTASS Yassine                                 | OptiFarm                                                                                                                                                                        |
| Rima Salma                                      | Le Parc 4 Saisons – IET                                                                                                                                                         |
| AZZA Alae                                       | AquaFriend                                                                                                                                                                      |
| SKILAT Hicham                                   | AgronoBot                                                                                                                                                                       |
| Hasna Daoui                                     | NabtaCheck                                                                                                                                                                      |
| Abdelmajid Benjelloun                           | AgriMind                                                                                                                                                                        |
| AKCHOUCH ABDELHAKIM                             | AgriLik                                                                                                                                                                         |
| Nassira FAHFOUHI                                | AQUAsaver                                                                                                                                                                       |
| JADOR Yassine                                   | AgriWatch                                                                                                                                                                       |
| BENSAID Saad                                    | AGRISMART                                                                                                                                                                       |
| Imane Benelfakir                                | Nabta check                                                                                                                                                                     |
| Arib Aymane                                     | EcoCrops                                                                                                                                                                        |
| karmoun chaymae                                 | CI 2.0                                                                                                                                                                          |
| Mouhsin Boumargoud                              | AinElfelah                                                                                                                                                                      |



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# HACKATHON

## Innovation Industrielle





# INNOVATION INDUSTRIELLE

| Nom & Prénom              | Titre du projet                                                                                                                                    |
|---------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|
| BARBYCH Mohamed           | BIMA (BIMA : Building Intelligence & Matériels in Africa)                                                                                          |
| El Kadi Yasmine           | CNSS SmartCare: Digital Healthcare Reimbursement System                                                                                            |
| MAHMOUD EL GHARIB         | SmartMaint : The Future of Machine Industry                                                                                                        |
| Idouahman hasnae          | Plateforme 4.0 – Suivi Intelligent & Prédicatif de la Performance Industrielle.                                                                    |
| yassir idrissi janati     | Optimisation énergétique industrielle                                                                                                              |
| Dore Pascal               | E-BEARING MONITORING                                                                                                                               |
| HOUMMADA Khadija          | Development of an innovative process based on basalt and iron-rich rock mining waste for thermal energy storage in concentrated solar power plants |
| Abdellah Ait Baha         | Sustainable recovery of used desalination membranes for circular economy applications                                                              |
| El Kanfoudi Mariam        | RecyTex : Intelligent Sorting and Recovery Platform for Industrial Textile Waste                                                                   |
| Oubelkas Ibrahim          | EcoFlow                                                                                                                                            |
| IDRISSOU ALIDOU Sams Dine | HydroSolar Industrie – Transformer l'énergie solaire excédentaire en hydrogène vert : une solution propre, rentable et autonome pour l'industrie   |
| EL HARIRI Abdelilah       | PlexiTech                                                                                                                                          |
| Ait Ahmed Aymen           | InsightEdge                                                                                                                                        |
| Astitou Mohamed           | SafeVision: Détection automatique des EPI en temps réel                                                                                            |
| Brahim Er-rays            | ClearSea : Autonomous Solar-Powered Oil Skimming                                                                                                   |
| EL HANACHI Reda           | BuildUP solutions                                                                                                                                  |
| RAMDANI Ali               | PiXEL MOTION – Detect Machine Status, Earn Money Vibration Analysis Software                                                                       |
| rhilan amine              | WhisperBot                                                                                                                                         |
| Imane Askiri              | Bouclier protecteur                                                                                                                                |
| Amine ENNAWAOU            | Automated Flotation Test Bench for Mineral Processing Optimization Using Model-Based Systems Engineering                                           |
| El yahyaouy Imane         | Système Autonome de Contrôle Qualité Intelligent pour l'Industrie 4.0                                                                              |
| Benchayb Ibtissam         | SalamtyAI                                                                                                                                          |
| El Hariri Abdelilah       | Distributeur intelligent de gestion de médicaments                                                                                                 |
| Sarma Fatima zahra        | WiiSafe                                                                                                                                            |
| ziani samir               | Scalable Real-Time Data Polling & Streaming Engine                                                                                                 |
| Karima JAAOUAN            | SMART ENVIRONNEMENT                                                                                                                                |
| Gargallou Soukaina        | Smart Factory Pi                                                                                                                                   |
| BARBYCH Mohamed           | Agharas AI                                                                                                                                         |
| Tabchi Omar               | AI Smart Grid                                                                                                                                      |
| Nada lebyad               | Sahtek                                                                                                                                             |

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# HACKATHON

## Intelligence Territoriale



# INTELLIGENCE TERRITORIALE

| Nom & Prénom             | Titre du projet                                                                                                     |
|--------------------------|---------------------------------------------------------------------------------------------------------------------|
| Amina Megzari            | CivicAI Maroc                                                                                                       |
| Adnane riyadi            | SouknaAI                                                                                                            |
| BEN KACEM OUSSAMA        | AI-Powered Route Optimization for Supply Chains in Morocco                                                          |
| Nada El Gourari          | CivisAi                                                                                                             |
| Mohamed Amine Achak      | Ecar                                                                                                                |
| Rajaa TORA               | MediTerria                                                                                                          |
| yassir idrissi janati    | Détection intelligente des nids-de-poule                                                                            |
| Salma ABOUTOFIL          | SmartEye                                                                                                            |
| Mohammed CHLIYAH         | AtlasGrid                                                                                                           |
| Amrani Yassir            | TR(A)UCK                                                                                                            |
| EL ATEKI GANONI El Mahdi | Super App for Tourists                                                                                              |
| ATIL Hamza               | TenderBoost : Optimisation intelligente des appels d'offres publics par l'IA Générative                             |
| BEN SEKOU Salaheddine    | TouriSense                                                                                                          |
| Mohammed omari bettahi   | Ni'Ma                                                                                                               |
| SACHA ILYAS              | E-Ntakhib                                                                                                           |
| ASSAKALI Mohamed         | Plateforme intelligente de gestion touristique et de mobilité au Maroc                                              |
| GANNOUNE OMAR            | TouriCup                                                                                                            |
| AIT MOHAMED Firdaous     | ILA – Intelligent Location Analysis -                                                                               |
| NOUHAILA FARAJY          | Développement d'un système intelligent de gestion des campagnes de recrutement basé sur l'intelligence artificielle |
| mohammed sennouni        | Mystery Client                                                                                                      |
| Ghamass SalahEddine      | MedinaFlow                                                                                                          |
| Layachi Mohamed Amine    | POLYMATH                                                                                                            |
| YACHOU Nadia             | Tawfir                                                                                                              |
| Youssef berkati          | VamosWAY — L'intelligence du voyage personnalisé au service des Smart Cities marocaines                             |
| GHERGHOUCH ABDESSALAM    | ECO CONNECT                                                                                                         |
| Manal Essalmouni         | Smart Mouwatin                                                                                                      |
| nourddine benyahya       | Medina-GO                                                                                                           |
| Ismail Ragrag            | Rihla                                                                                                               |
| Mouad Benouzekri         | TerriSport Insight                                                                                                  |
| ayoub raji               | Territoire Connecté & Augmenté                                                                                      |



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# HACKATHON

## Smart Cities





# SMART CITIES

| Nom & Prenom                                                                                        | Titre du projet                                                                                                                                |
|-----------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|
| Yahya elkhayat                                                                                      | Tsafira                                                                                                                                        |
| Naoufal BOUKHACHA<br>ELIDRISSI                                                                      | Quake-Drone                                                                                                                                    |
| HMIDOUCHE ALI                                                                                       | SmartFlow+                                                                                                                                     |
| OIRDI HAKIMA                                                                                        | ThermiGlass                                                                                                                                    |
| AZARKAN Zakariae                                                                                    | TrignaAI                                                                                                                                       |
| Mouad KHARCHOUCHE                                                                                   | AUTOPHARMACY                                                                                                                                   |
| Choukri Ayoub                                                                                       | ParkMe                                                                                                                                         |
| HMIMOU YASSER                                                                                       | Urban AI Safety Watch                                                                                                                          |
| Laghouissa Meriem                                                                                   | NeoSoul                                                                                                                                        |
| Amine TIYANE                                                                                        | NIDAA – Smart Blood Donation Platform                                                                                                          |
| SANOH ALY ALY                                                                                       | Système Intelligent de Gestion des Ressources Hydriques Urbaines                                                                               |
| Farouk Zakaria                                                                                      | Nutristation                                                                                                                                   |
| EL ATI SAFAE                                                                                        | SKY SLICE(Optimisation réseau)                                                                                                                 |
| RAHHOU Hakim - Abdelhamid<br>HACHIMI ALAOUI - STAILI<br>Mohamed - HABLOUZ Najib -<br>KHAYI Zakariae | Smart Bin                                                                                                                                      |
| Ait Moulay maryem                                                                                   | SmartParking: An intelligent method for managing parking in cities                                                                             |
| FAURASS NIDAL                                                                                       | NAQL                                                                                                                                           |
| Rayhane TOUZANI                                                                                     | AI-Powered Smart City Monitoring & Citizen Engagement                                                                                          |
| KHAIROUNI ACHRAF                                                                                    | UrgenceFlow : Système Intelligent de Priorité aux Véhicules d’Urgence et de Gestion du Trafic                                                  |
| MARS Fadwa                                                                                          | SONIC MESH                                                                                                                                     |
| EL BOUDHIRI FATIMA-<br>EZZAHRA                                                                      | SMART AQUA MOROCCO                                                                                                                             |
| sarhden nour al houda                                                                               | AmanRain                                                                                                                                       |
| Lachkar Mohamed                                                                                     | Ajiw Explore                                                                                                                                   |
| Abdelhafid Azougghagh                                                                               | CityGo                                                                                                                                         |
| AKOTENOU Généreux                                                                                   | Hub citoyen pour ville intelligente: Une plateforme citoyenne pour co-construire des villes marocaines plus intelligentes, sûres et inclusives |
| ASSIRI Ikram                                                                                        | MediAlt                                                                                                                                        |
| Amchi Mohamed Amine                                                                                 | Plateforme de Tourisme Intelligent et Valorisation du Patrimoine                                                                               |
| TAHA TAIDI LAAMIRI                                                                                  | HYDROBOT                                                                                                                                       |
| Azzman Nor Elimane                                                                                  | AirFlow: Transforming Air Travel with Smart Technology for Seamless, Efficient, and Inclusive Journeys                                         |
| Tayyarat Oumaima                                                                                    | Wasty.AI                                                                                                                                       |
| El Hamdaoui Yassine                                                                                 | Tawfir                                                                                                                                         |

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# HACKATHON

CHILDREN'S  
EDITION



*Ages 9 to 16*

Do you have a great idea?  
Do you like coding, drawing, or inventing?  
Join with your team and change the world with your ideas.

One team

One project

One winner

VALUE | 5000  
PRIZE | MAD

# LIST OF SUBMITTED PROJECTS

| Nom de l'équipe     | Nom de l'Etablissement / Centre / Association | Ville  | Nom complet du 1er Membre | Nom complet du 2ème Membre | Nom complet du 3ème Membre | Titre du projet                                                   |
|---------------------|-----------------------------------------------|--------|---------------------------|----------------------------|----------------------------|-------------------------------------------------------------------|
| GSTECH INNOVATORS   | GROUPE SCOLAIRE TANGERINE                     | TANGER | Chetoui Amira             | Aghbalou Nour              | El alami Meriem            | BRAS Controlé par l'IA                                            |
| GSTECH INNOVATORS 2 | GROUPE SCOLAIRE TANGERINE                     | TANGER | Fellaini Ayman            | Boutrik Adam               |                            | Controle de porte via bluetooth                                   |
| GSTECH INNOVATORS 3 | GROUPE SCOLAIRE TANEGRINE                     | TANGER | Sedra Salameh             | Sedra Salameh              |                            | 3D Model: V-Twin Engine – High-Realism & Detailed Design          |
| E-Robot             | E-Robot                                       | Rabat  | Abdallah BOUZROUD         | Abdelmoiz ENNOUAMI         | Nizar Elyacoubi            | Main artificielle connectée pour intervention médicale à distance |
| La main verte       | مركز الاميرة للاسماء للصم و ضعاف السمع        | الرباط | Nima BENRABHA             | Sfouane BENLARBI           | Ihsane BOUTALAT            | Hydroponie horizontale en hauteur robotisée                       |
| Next Level          | Activelabs Maker Space                        | Tanger | Mariam El Abed El Alaoui  | Lina Saidi                 | Zineb Mansouri             | Downy                                                             |
| robotique chabbi 🇲🇦 | Abou Kacem chabbi                             | Tanger | SOULAIMANE QDIDAR         | HASSAN KRECH               | DIYAE EDDINE EL BARAKA     | روبوت منزلي مساعد                                                 |
| AquaMinds           | ROBOTICS by IARoTech                          | Rabat  | Chahir Idrissi Ali        | El Masaoudi Aicha          | Malak Ezziyyani            | HydroFlow                                                         |
| WattGuard Kids      | ROBOTICS by IARoTech                          | Rabat  | Fares Hajid               | Soubella Rabie             | Zibaba Ghali               | WattWise                                                          |
| RoboMakers          | ROBOTICS by IARoTech                          | Rabat  | Fouad Arij                | Ibourk Youssef             | Seffar Najib               | TaskBot                                                           |
| AI Cross-Team       | Lycée Sidi Driss                              | Tanger | Taoufik Raa               | Sami Ahouli                |                            | Trafficore ai                                                     |



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غرفة التجارة والصناعة والخدمات  
لجهة طنجة - تطوان - الحسيمة  
CHAMBER OF COMMERCE, INDUSTRY AND SERVICES  
OF THE REGION TANGER TETOUAN ALHOCEIMA

# GLOBAL INNOVATION TECHNOLOGY EXHIBITION

Under the theme :  
**Artificial Intelligence, Bridge to a Digital and  
Sustainable Future**

# WayTech

International  
Open Exhibition

*Tanger*



[HTTPS://WAYTECHEXPO.MA/](https://waytechexpo.ma/)

**B2B NETWORKING  
ACCELERATOR PLATFORM  
AI & INNOVATION &  
EXHIBITION & HACKATHON**



BOOKING YOUR  
STANDS



FREE REGISTRATION  
FOR ATTENDEES



<https://waytechexpo.ma/>



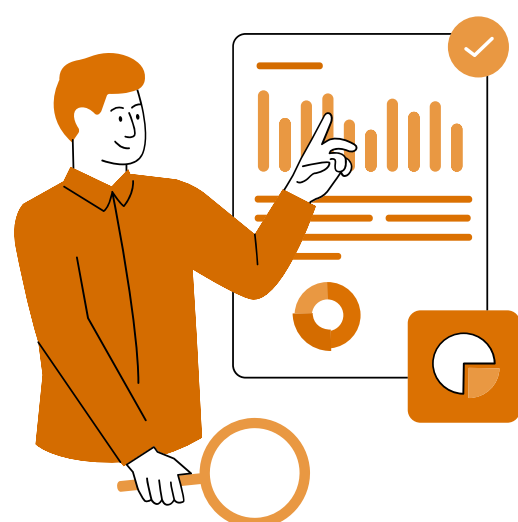
# PRÉSENTATION

The AI2SD'2025 conference will be held at the Palace of Arts and Culture in Tangier from May 21 to 23, 2025. The event features the AI2SD WayTech Expo, showcasing the latest technologies and gathering global experts. Attendees can participate in Special and VIP Panels, B2B Networking, and Entrepreneurship Hackathons. The conference will explore advanced intelligent systems for sustainable development.

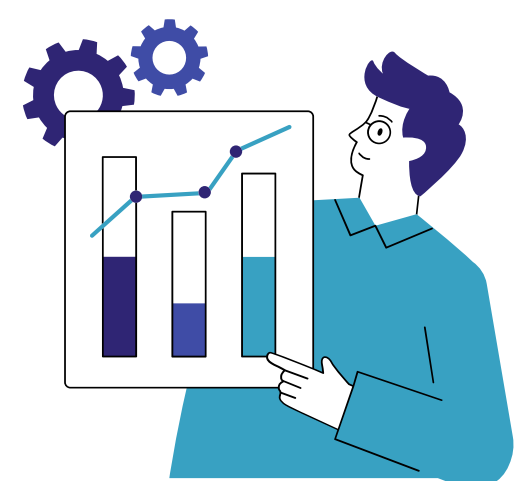


## UNIQUE OPPORTUNITY

**Foster  
International  
Collaborations**



**Promote Moroccan  
Technological  
Innovation**



# WHY PARTICIPATE IN WAYTECH?

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01

Explore New Markets

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02

Strengthen Your Credibility and Authority

---

03

Attend Conferences and Workshops

---

04

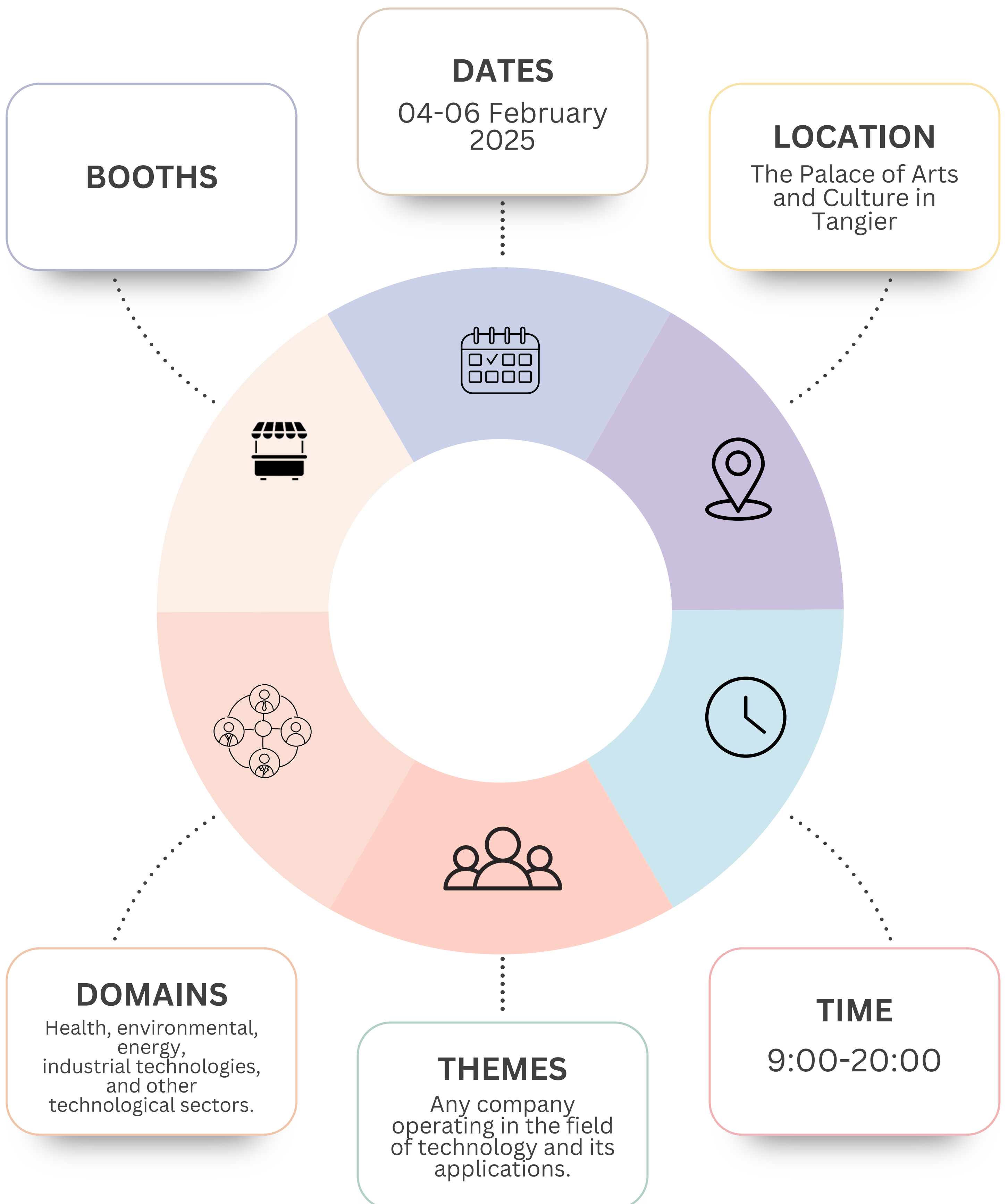
An Exceptional Opportunity for Your Business

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## WHY A TECHNOLOGY EXPO IN TANGIER?

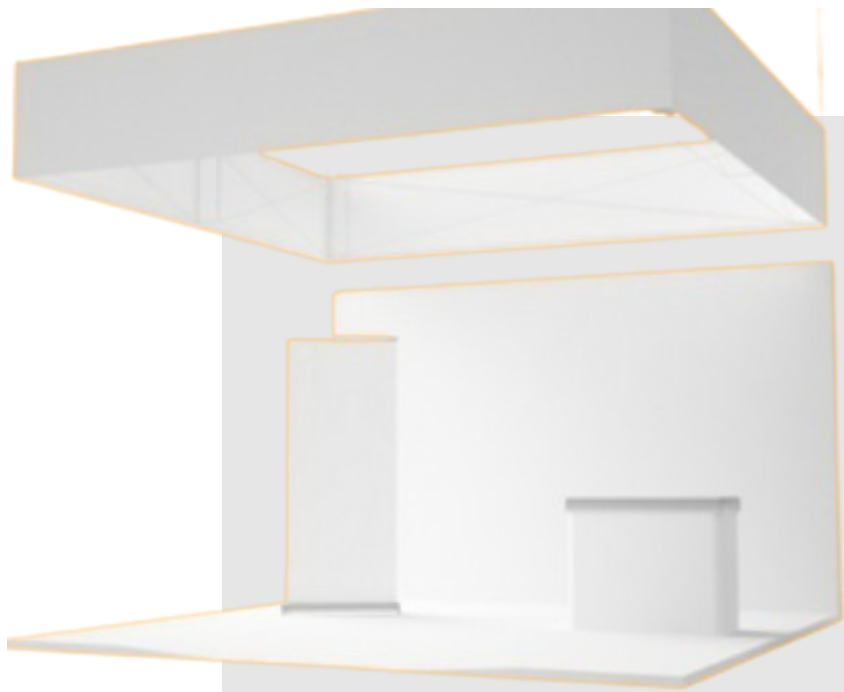
- > Strategic Location
- > Economic Growth
- > Accessibility and Modern Infrastructure
- > Cultural Diversity and International Openness

# TECHNICAL INFORMATIONS





# PARTICIPATION TERMS



## PRICE ON REQUEST

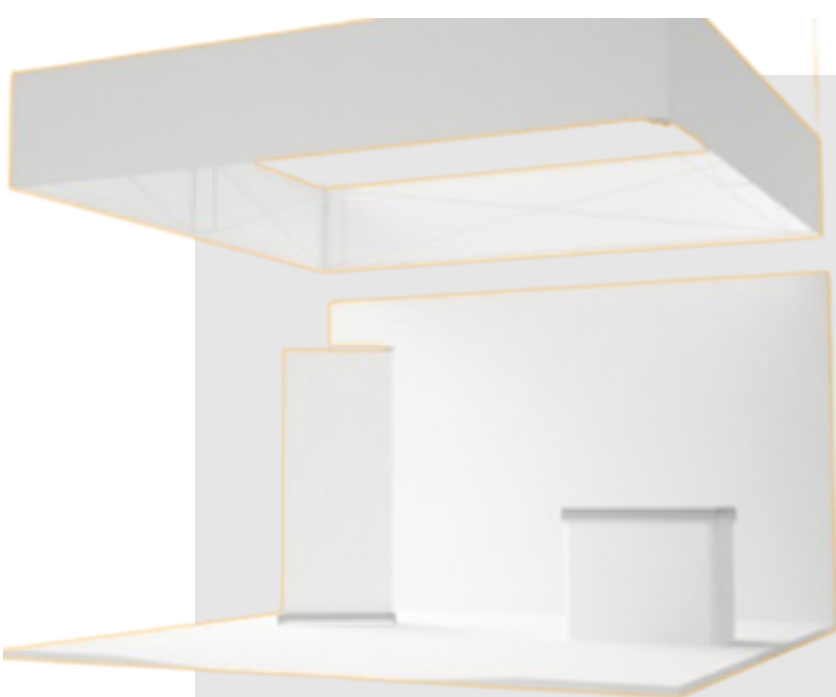
*>25 m<sup>2</sup> Booth*

- Equipped stand\* (1 table, 3 chairs, 1 trash bin, lighting, carpet)
- Signboard panel (lettering)

## PREMIUM

*25 m<sup>2</sup> Booth*

- Equipped Stand\* (6 chairs, 1 desk, 2 tables, lighting, carpet, 1 sofa)
- Logo insertion in the official expo catalog
- Logo display on the expo screen
- Stand decoration include



## SILVER

*15 m<sup>2</sup> Booth*

- Equipped or customized stand\* (1 table, 3 chairs, 1 trash bin, lighting, carpet)
- Signboard panel (lettering)

## STANDARD

*9 m<sup>2</sup> Booth*

- Equipped stand\* (1 table, 3 chairs, 1 trash bin, lighting, carpet)
- Signboard panel (lettering)





# PARTICIPATION TERMS



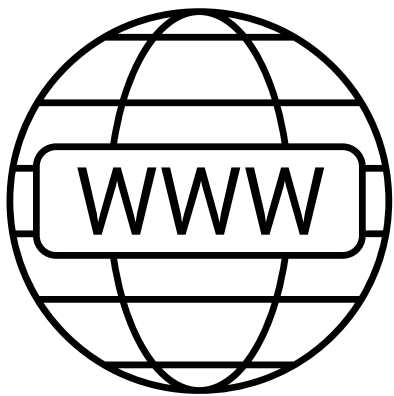
**01**

Media coverage on national channels



**02**

Partnership with national radio stations



**03**

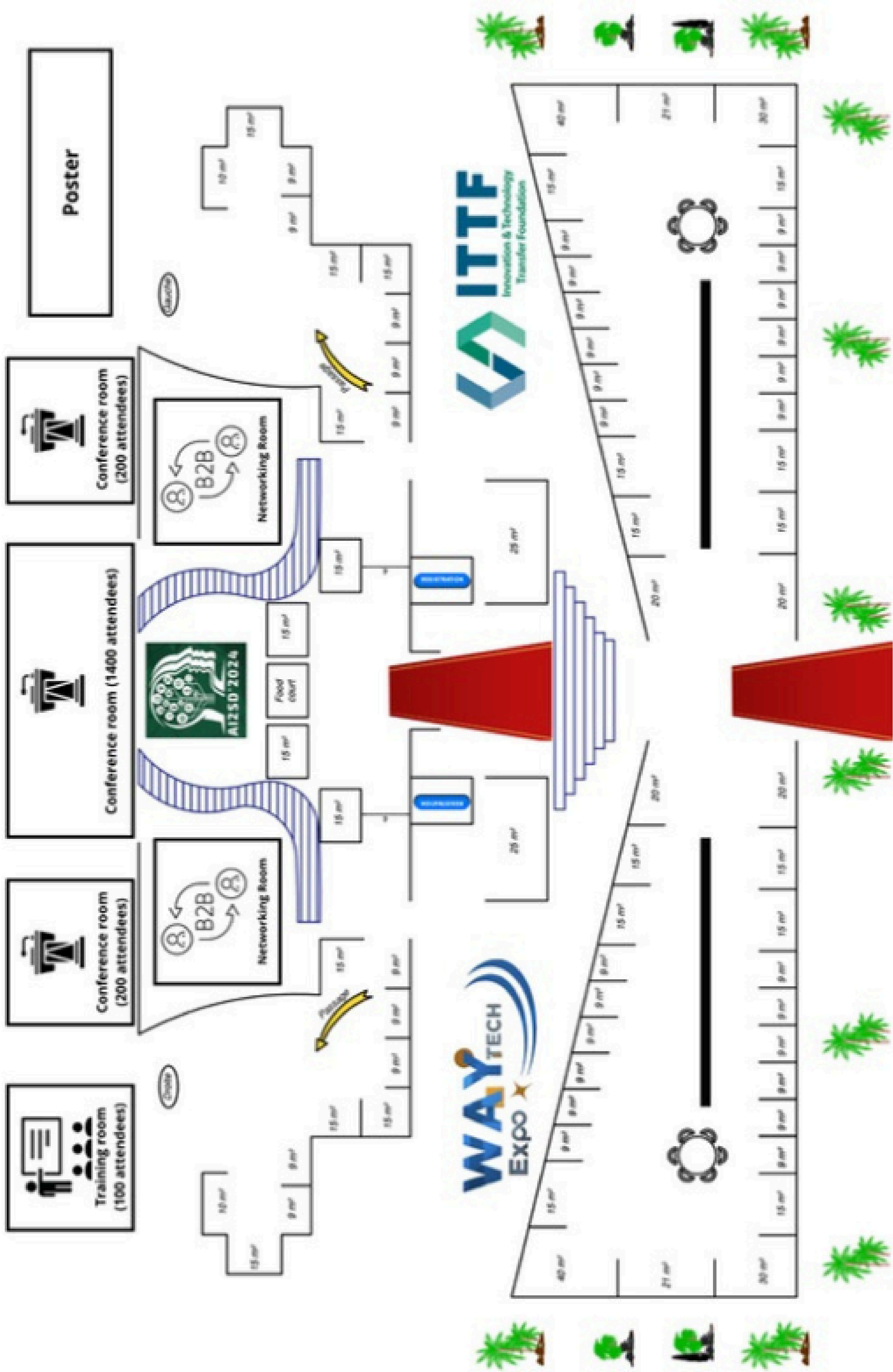
- Media coverage on specialized websites
- Internet banner on partner websites of the expo
- Facebook page management + sponsorship



**04**

Catalogs and Flyers

# EVENT MAP





**SYMPOSIA**

**05**



# THE AI2SD'2025 SYMPOsia SERIES

01

DIGITAL HEALTH  
AND HEALTHCARE  
INNOVATION

02

AGRICULTURE OF  
PRECISION & FOOD  
SECURITY

03

SMART CITY AND  
INDUSTRY 4.0

04

CIRCULAR  
ECONOMY AND  
ENERGY

05

TRANSPORT AND  
LOGISTICS

06

FINTECH AND  
DIGITAL OF  
FINANCIAL  
SERVICES

07

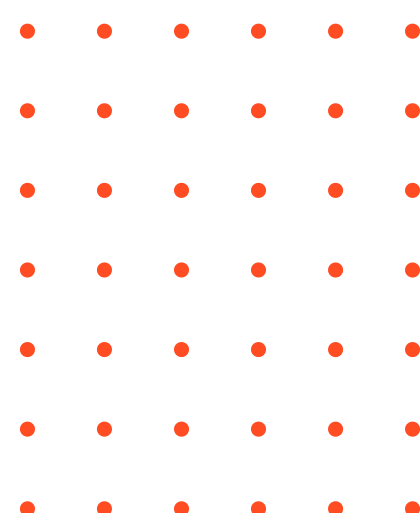
EDUCATION AND  
CULTURE DRIVEN  
BY DIGITAL  
TECHNOLOGY



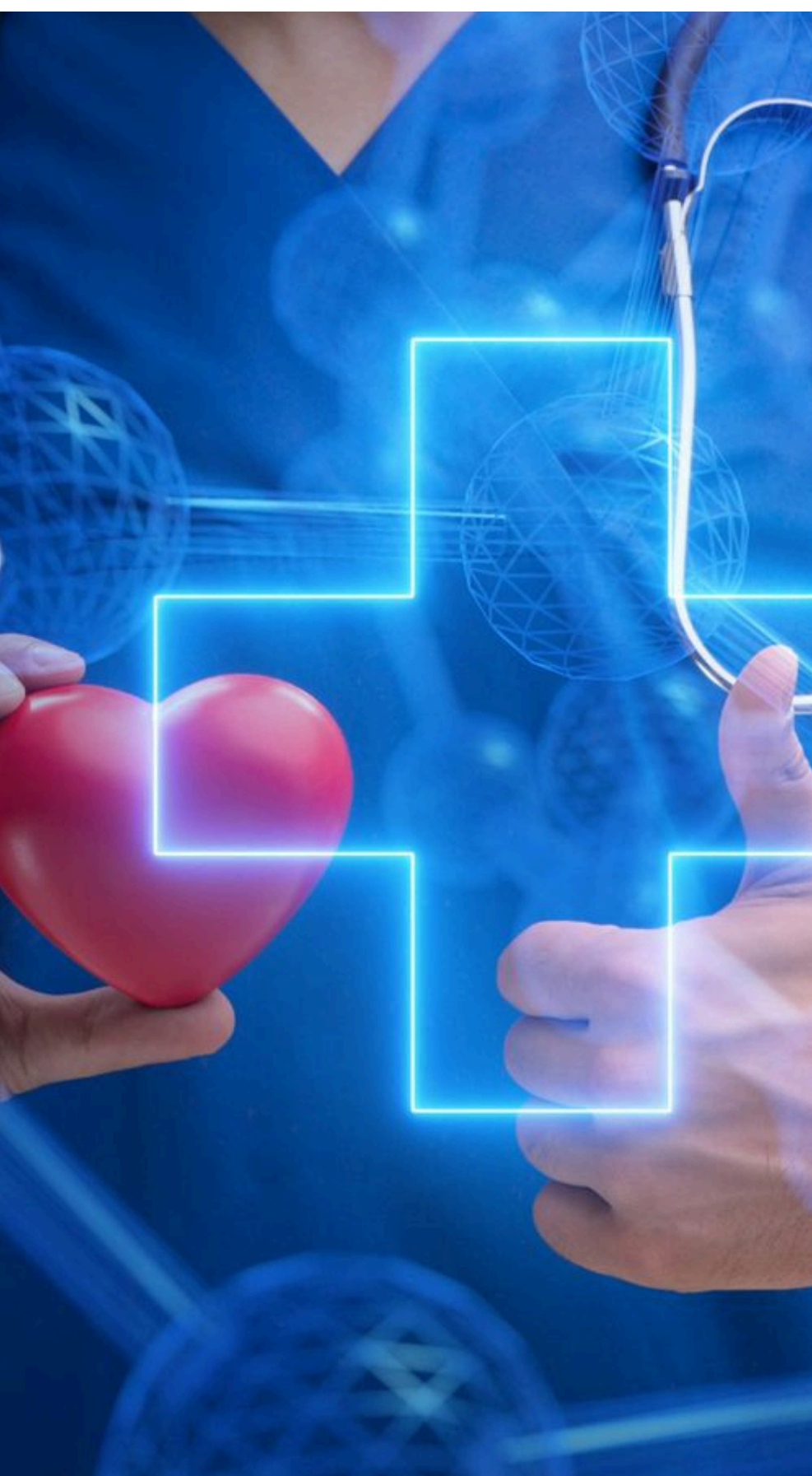


**AI2SD SYMPOSIA SERIES**

**Digital Health  
And Healthcare  
Innovation**







## INTRODUCTION

The AI2SD Symposia Series is dedicated to exploring the integration of technology into healthcare, which is crucial for improving access, efficiency, and outcomes. This symposium brings together distinguished speakers and experts to discuss advancements in Digital Health and Healthcare Innovation, emphasizing the transformative potential of Artificial Intelligence (AI) and Sustainable Development.

## ABOUT THE SYMPOSIUM

The AI2SD Global Summit Symposia series bridges AI and sustainable development for global progress. By focusing on Digital Health and Healthcare Innovation, this series ensures that advancements address crucial health challenges, enhancing well-being worldwide.

## KEYNOTE ADDRESS

The distinguished speakers highlight the transformative power of Medical AI in revolutionizing healthcare delivery, emphasizing how AI innovations promise enhanced patient care, improved accessibility, and increased efficiency. The talks are dedicated to the responsible adoption of AI, ensuring ethical use and maximizing benefits for global health equity and well-being.

# THEMES OF DISCUSSION

Experts will explore global health challenges at the intersection of technology and healthcare. Key themes include:



- **Global Health Challenges and AI Solutions:** Discussing strategies and solutions to overcome global health challenges through AI-driven innovations.
- **Medical and Pharmaceutical Education:** Strategic approaches to new generation medical and pharmaceutical education.
- **Innovative Medical Technologies:** The role of AI in healthcare, including diagnostic tools and treatment modalities.

- **Medical Genetics and Genomic Medicine:** AI-driven approaches in medical genetics.
- **Telemedicine and Digital Health:** The impact and future of telemedicine.
- **Pathological Anatomy:** Innovations in pathological anatomy.





## SPECIAL PANELS

01

### **Health Governance Sustainability:**

- Strategies and solutions needed to overcome global health challenges.
- Chair, Moderator, and Speakers: To be announced.

02

### **Medical and Pharmaceutical Education:**

- Strategic approaches in new generation medical and pharmaceutical education.
- Chair, Moderator, and Speakers: To be announced.

03

### **Innovative Medical Technologies:**

- The role of AI in healthcare.
- Chair, Moderator, and Speakers: To be announced.

04

### **Medical Genetics and Genomic Medicine:**

- AI-driven innovations in medical genetics.
- Chair, Moderator, and Speakers: To be announced.

05

### **Telemedicine and Digital Health:**

- The impact and future of telemedicine.
- Chair, Moderator, and Speakers: To be announced.

06

### **Pathological Anatomy:**

- Innovations in pathological anatomy.
- Chair, Moderator, and Speakers: To be announced.



## POLICY DEVELOPMENT AND REGULATION

Global organizations establish regulations and guidelines to govern the ethical use and integration of medical AI technologies. Ensuring adherence to safety standards, patient privacy protection, and equitable access fosters trust and reliability in AI-driven healthcare solutions.

## INVESTMENT IN RESEARCH AND DEVELOPMENT

Organizations allocate resources and funding to support research initiatives aimed at advancing medical AI technologies. This drives the development of new AI algorithms, diagnostic tools, and treatment modalities, accelerating progress in healthcare delivery.

## Advocacy and Collaboration

Fostering collaboration among stakeholders, including governments, industry partners, and healthcare providers, promotes knowledge sharing, best practices, and collective action for sustainable healthcare innovation.

## CONCLUSION

The AI2SD Symposium Series on Digital Health and Healthcare Innovation is a pivotal platform for advancing global health through AI and technology. By bringing together leading experts and fostering collaborative discussions, the symposium aims to drive significant improvements in healthcare delivery, accessibility, and patient outcomes worldwide.

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21-23, MAY 2025



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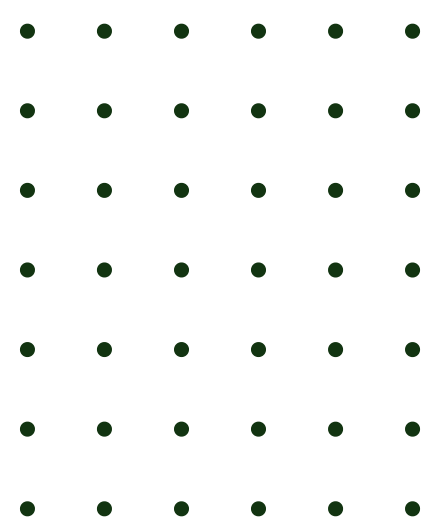


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AI2SD SYMPOSIA SERIES

# Agriculture of Precision & Food Security







# INTRODUCTION

The AI2SD Symposia Series on Agriculture 4.0 And Food Security explores the integration of advanced technologies into agriculture, aiming to enhance productivity, sustainability, and food security globally. This symposium convenes experts and stakeholders to discuss innovative applications and emerging trends shaping the future of agriculture.

## ABOUT THE SYMPOSIUM

The AI2SD Global Summit Symposia Series serves as a pivotal platform bridging Agriculture 4.0 and food security, fostering sustainable development through technological advancements. It aims to empower attendees with insights into AI-driven crop analytics, digital transformation experiences, and data science's impact on agricultural resilience.

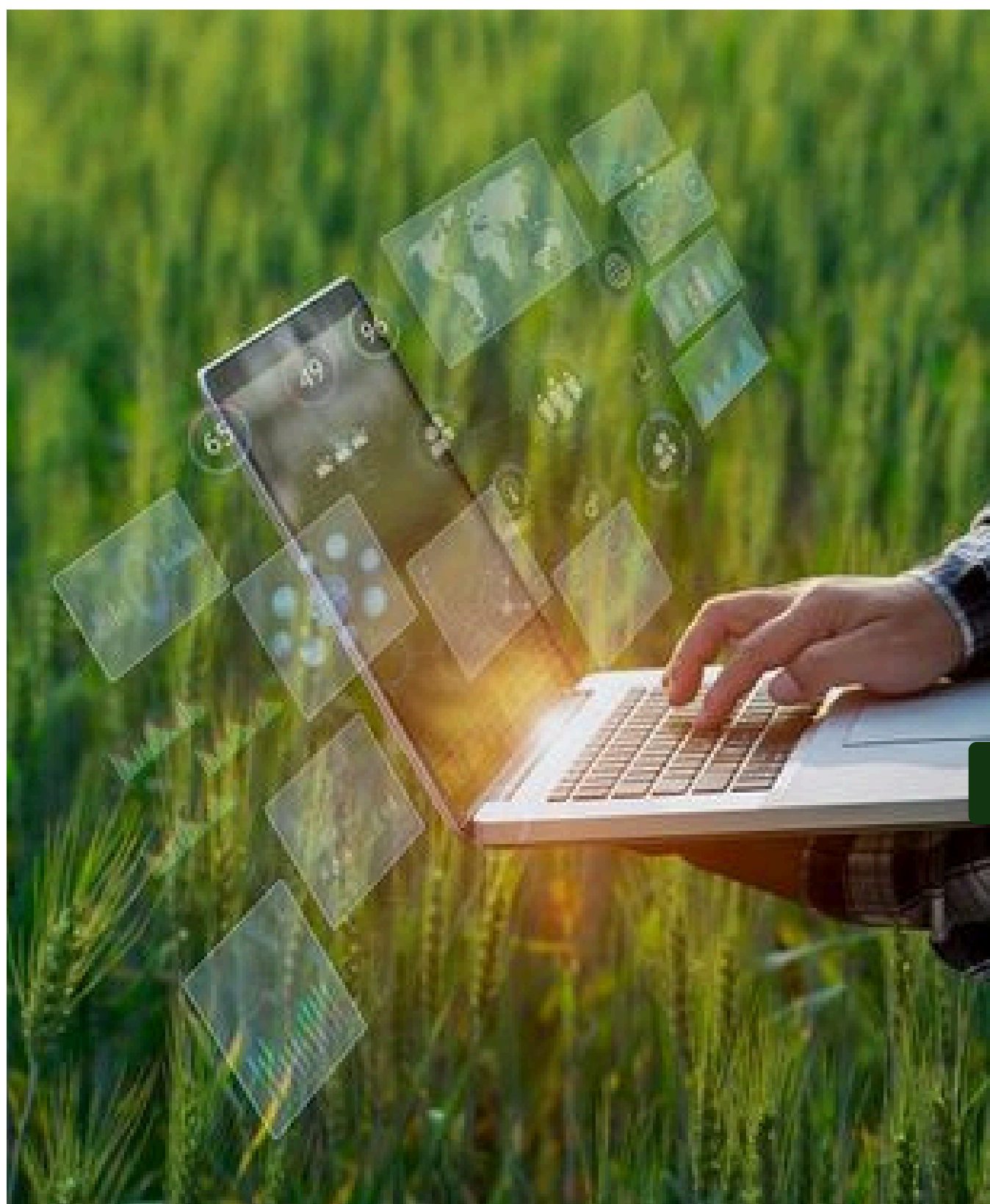
## KEYNOTE ADDRESS

The distinguished speakers highlight the transformative power of AI in revolutionizing agriculture, emphasizing how AI innovations promise enhanced crop management, improved resource efficiency, and increased resilience. The talks are dedicated to the responsible adoption of AI, ensuring ethical use and maximizing benefits for global food security and sustainability.



# THEMES OF DISCUSSION

Experts will explore global agricultural challenges at the intersection of technology and food security. Key themes include:



- **Precision Agriculture 4.0:** Innovations in precision farming tools, including drones, satellite imagery, and GPS-guided machinery, to optimize resource utilization and maximize yields.
- **Smart Irrigation Systems:** Utilization of sensor-based systems to manage water usage efficiently, addressing water scarcity challenges and improving agricultural productivity.
- **Remote Monitoring And IoT Technologies:** Integration of IoT devices for real-time monitoring of crops and livestock health, enhancing early detection of diseases and optimizing farming practices.

- **Precision Livestock Farming:** Application of RFID tagging, sensors, and automated systems for improved livestock management, ensuring animal welfare and production efficiency.
- **Climate-Smart Agriculture:** Adoption of climate-resilient practices such as conservation agriculture and agroforestry to mitigate climate change impacts and sustain food production.
- **Digital Farming Platforms:** Utilization of data-driven decision support systems to optimize farm management practices, minimize risks, and enhance agricultural resilience.



# SPECIAL PANELS

| 01

**Policy and Regulation:**

Establishing guidelines for ethical AI adoption in agriculture, ensuring safety, privacy, and equitable access to technology-driven solutions.

| 02

**Investment in Research and Development:**

Allocating resources to advance AI algorithms and technologies, accelerating innovations in agricultural productivity and sustainability.



## CONCLUSION

The AI2SD Symposium Series on Agriculture 4.0 And Food Security aims to catalyze advancements in agricultural technology, fostering sustainable practices and enhancing global food security. By facilitating collaborative discussions and knowledge sharing, the symposium strives to empower stakeholders and drive transformative change in the agricultural sector.

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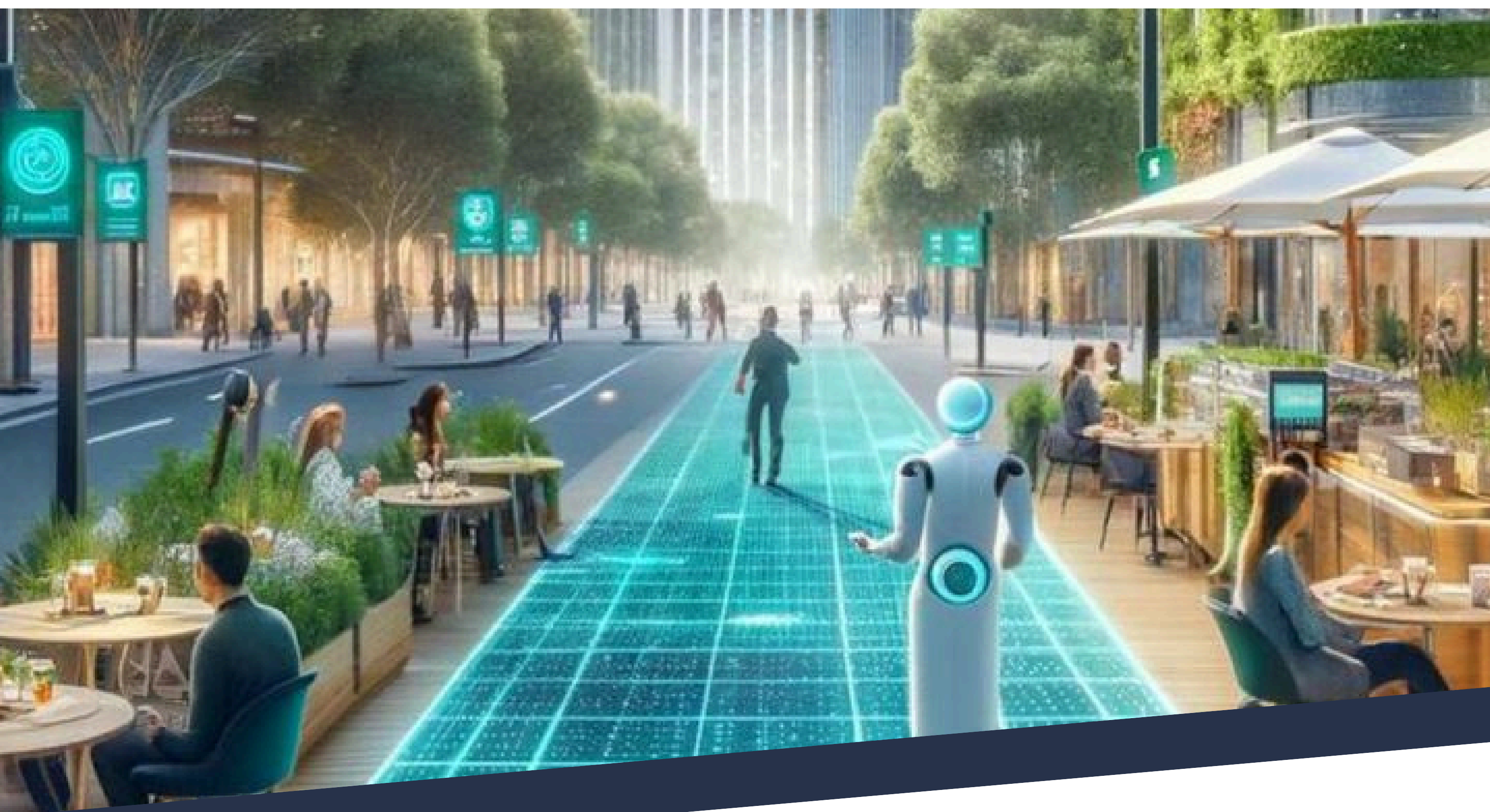


ENSA Kenitra, Morocco



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AI2SD SYMPOSIA SERIES

# Smart City And Industry 4.0





## INTRODUCTION

The AI2SD Global Summit Symposium Series on Smart City And Industry 4.0 explores the integration of Artificial Intelligence (AI) and Sustainable Development within urban environments and the industrial revolution. This symposium gathers experts, policymakers, researchers, and industry leaders to discuss AI-driven solutions addressing challenges in urbanization, industry transformation, and sustainable development.

## ABOUT THE SYMPOSIUM

The AI2SD Global Summit symposium series acts as a nexus for AI technologies and sustainable urban development initiatives worldwide. It aims to deepen participants' understanding of smart city innovations, including AI-driven urban planning, digital infrastructure for smart transportation systems, and advancements in industrial processes. The symposium fosters collaboration and knowledge exchange to envision smarter, more sustainable cities and industries.

## KEYNOTE ADDRESS

The distinguished speakers highlight the transformative power of AI in revolutionizing urban environments and industrial processes. They emphasize how AI innovations promise enhanced urban planning, improved resource efficiency, and increased industrial productivity. The talks focus on the responsible adoption of AI, ensuring ethical use and maximizing benefits for sustainable urban development and industrial transformation. This approach aims to create smarter, more resilient cities and industries, ultimately enhancing the quality of life and promoting sustainable growth globally.



# THEMES OF DISCUSSION



- **Smart Infrastructure And Urban Planning:** Innovations in designing and developing smart infrastructure, including intelligent transportation systems and energy-efficient buildings.
- **AI For Sustainable Development:** Leveraging AI to achieve sustainable development goals in urban areas, such as reducing carbon emissions, improving air quality, and enhancing waste management.
- **Data Analytics And Urban Governance:** Role of data analytics and AI in optimizing urban governance, enhancing decision-making processes, and promoting citizen engagement.

- **Smart Mobility And Transportation:** Application of AI in addressing urban mobility challenges through smart traffic management, autonomous vehicles, and multimodal transportation systems.
- **Digital Transformation And Smart Cities:** Implications of digital transformation on urban environments, exploring AI's potential to create efficient, connected, and inclusive smart cities.
- **Resilience And Disaster Management:** Utilizing AI to build resilient cities capable of mitigating and responding to natural disasters and urban crises effectively.



## SPECIAL PANELS

| 01

### **Policy and Regulatory Frameworks:**

Establishing guidelines for the ethical use of AI in smart city initiatives, ensuring data security, privacy, and equitable access to technology-driven solutions.

| 02

### **Industry 4.0 Innovations:**

Exploring advancements in industrial processes facilitated by AI, including smart manufacturing, supply chain optimization, and sustainable industrial practices.





## CONCLUSION

The AI2SD Global Summit Symposium Series on Smart City And Industry 4.0 aims to advance discussions on AI's role in shaping sustainable urban development and industrial transformation. By facilitating collaborative dialogues and knowledge sharing, the symposium seeks to drive innovations that enhance urban living standards and industrial efficiency globally.

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AI2SD SYMPOSIA SERIES

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# Circular Economy And Energy



## INTRODUCTION

The AI2SD Symposia Series on Circular Economy And Energy aims to unite experts, researchers, policymakers, and industry leaders to explore the intersection of circular economy principles and energy sustainability. Through collaborative discussions and knowledge-sharing sessions, participants will delve into strategies for maximizing resource efficiency, minimizing waste, and integrating renewable energy sources within circular systems. This symposium offers a platform to exchange insights, showcase cutting-edge research, and foster partnerships driving the transition towards a sustainable and resilient energy future.

## ABOUT THE SYMPOSIUM

The AI2SD Global Summit Symposia Series bridges AI and sustainable development for global progress. By focusing on Circular Economy and Energy Innovation, this series ensures advancements address crucial sustainability challenges, promoting environmental conservation and global well-being.

## KEYNOTE ADDRESS

Distinguished speakers highlight the transformative potential of integrating circular economy principles with sustainable energy practices. Emphasizing how AI innovations can optimize resource efficiency, reduce waste, and promote renewable energy adoption, the talks focus on advancing sustainability and resilience. The sessions are dedicated to the responsible implementation of AI, ensuring ethical use and maximizing benefits for environmental conservation and global sustainability.



# THEMES OF DISCUSSION



- **Smart Energy Systems:** AI and emerging technologies in optimizing energy production, distribution, and consumption for enhanced efficiency and sustainability.
- **Data Analytics For Sustainable Development:** AI-driven data analytics to identify trends, predict energy demand, optimize resource allocation, and inform sustainable development decisions.
- **Energy-Efficient AI Technologies:** AI and digital technologies in circular economy practices, including resource recovery, waste management, and sustainable supply chain management.

- **AI-Enabled Circular Economy:** Application of AI in precision sustainability practices to improve resource efficiency and minimize environmental impact.
- **Renewable Energy Forecasting And Optimization:** AI-based algorithms for integrating renewable energy sources into the grid, improving forecasting accuracy, and maximizing renewable energy utilization.
- **Policy And Governance In AI And Energy:** Regulatory and policy frameworks for responsible AI development in the energy sector, ensuring ethical use, data privacy, security, and equitable access to sustainable energy solutions.





## SPECIAL PANELS

01

### **Policy Development And Advocacy:**

- Developing and advocating policies for digital strategies in circular economy and energy.
- Establishing regulatory frameworks for sustainable practices.

02

### **Standardization And Certification:**

- Setting standards and certification for digital technologies in circular economy and energy.
- Ensuring interoperability and reliability of solutions.

03

### **Capacity Building And Knowledge Sharing:**

- Providing training programs and resources.
- Sharing best practices and innovative approaches in circular economy and energy.

04

### **Collaboration And Partnership:**

- Facilitating partnerships between governments, businesses, academia, and civil society.
- Driving collective action towards sustainability goals.



## CONCLUSION

The AI2SD Symposium Series on Circular Economy And Energy aims to drive forward the transition towards a sustainable and resilient energy future. By fostering collaborative dialogues and knowledge exchange, the symposium seeks to advance resource efficiency, renewable energy integration, and global sustainability practices.

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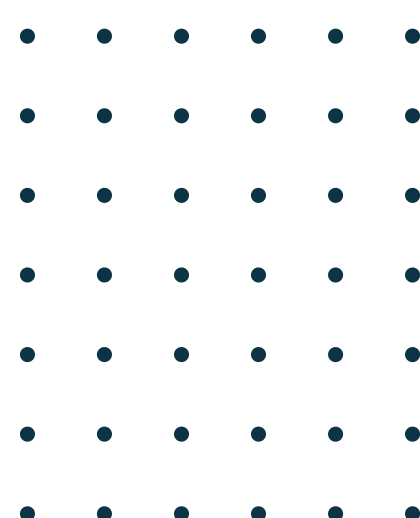
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AI2SD SYMPOSIA SERIES

# Transport and Logistics







# INTRODUCTION

The AI2SD Symposium Series is dedicated to exploring the integration of technology into transport and logistics, which is crucial for improving efficiency, accessibility, and sustainability. This symposium brings together distinguished speakers and experts to discuss advancements in Transport and Logistics Innovation, emphasizing the transformative potential of Artificial Intelligence (AI) and Sustainable Development.

## ABOUT THE SYMPOSIUM

The AI2SD Global Summit symposium series bridges AI and sustainable development for global progress. By focusing on Transport and Logistics Innovation, this series ensures that advancements address crucial challenges in the transportation sector, enhancing efficiency and sustainability worldwide.

## KEYNOTE ADDRESS

The distinguished speakers underscore the transformative impact of AI on reshaping transport and logistics, emphasizing AI's potential to optimize supply chain management, streamline operations, and enhance accessibility. Discussions will focus on the responsible integration of AI, ensuring ethical deployment to maximize benefits for global transportation efficiency and sustainability.



# THEMES OF DISCUSSION

Experts will explore global challenges at the intersection of technology and transport. Key themes include:



- **Autonomous Vehicles:** Exploring AI-driven autonomous vehicles' impact on road safety, traffic management, and urban mobility.
- **Predictive Maintenance:** AI solutions for preemptive maintenance in transportation infrastructure and fleet management.
- **Supply Chain Optimization:** How AI streamlines logistics, reduces costs, and enhances global supply chain efficiency.

- **Smart Cities and Transportation:** AI's role in creating connected, sustainable urban transportation systems.
- **Last-Mile Delivery Innovations:** AI-powered solutions for efficient and eco-friendly last-mile delivery operations.
- **Ethical Considerations in AI Adoption:** Addressing ethical dilemmas and regulatory challenges in AI implementation in transport and logistics.



## SPECIAL PANELS

01

### **Advocacy and Collaboration:**

- Fostering collaboration among stakeholders, including governments, industry partners, and logistics providers, promotes knowledge sharing, best practices, and collective action for sustainable transport innovation.

02

### **Policy Development and Regulation:**

- Global organizations establish regulations and guidelines to govern the ethical use and integration of AI technologies in transport. Ensuring adherence to safety standards, privacy protection, and equitable access fosters trust and reliability in AI-driven logistics solutions.

03

### **Investment in Research and Development:**

- Organizations allocate resources and funding to support research initiatives aimed at advancing AI technologies in transport. This drives the development of new AI algorithms, predictive maintenance tools, and smart logistics solutions, accelerating progress in transport and logistics.





## CONCLUSION

The AI2SD Symposium Series on Transport and Logistics Innovation is a pivotal platform for advancing global transport through AI and technology. By bringing together leading experts and fostering collaborative discussions, the symposium aims to drive significant improvements in logistics efficiency, accessibility, and sustainability worldwide.

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AI2SD SYMPOSIA SERIES

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# Fintech And Digital Of Financial Services





# INTRODUCTION

The AI2SD Global Summit Symposia Series is dedicated to exploring the transformative impact of Fintech on traditional financial services across Africa. This symposium brings together thought leaders and practitioners to discuss cutting-edge technologies and innovative applications reshaping the financial landscape.

## ABOUT THE SYMPOSIUM

The AI2SD Global Summit Symposia Series bridges AI and sustainable development for global progress. By focusing on Digital Fintech and Financial Services in Africa, this series aims to provide participants with insights into AI-driven financial analytics, blockchain-based transactions, digital banking experiences, and advancements in data science for risk management and fraud detection.

## KEYNOTE ADDRESS

The distinguished speakers highlight the transformative power of Fintech in revolutionizing financial services, emphasizing how Fintech innovations promise enhanced financial inclusion, improved accessibility, and increased efficiency. The talks are dedicated to the responsible adoption of Fintech, ensuring ethical use, and maximizing benefits for economic growth and financial well-being across Africa.

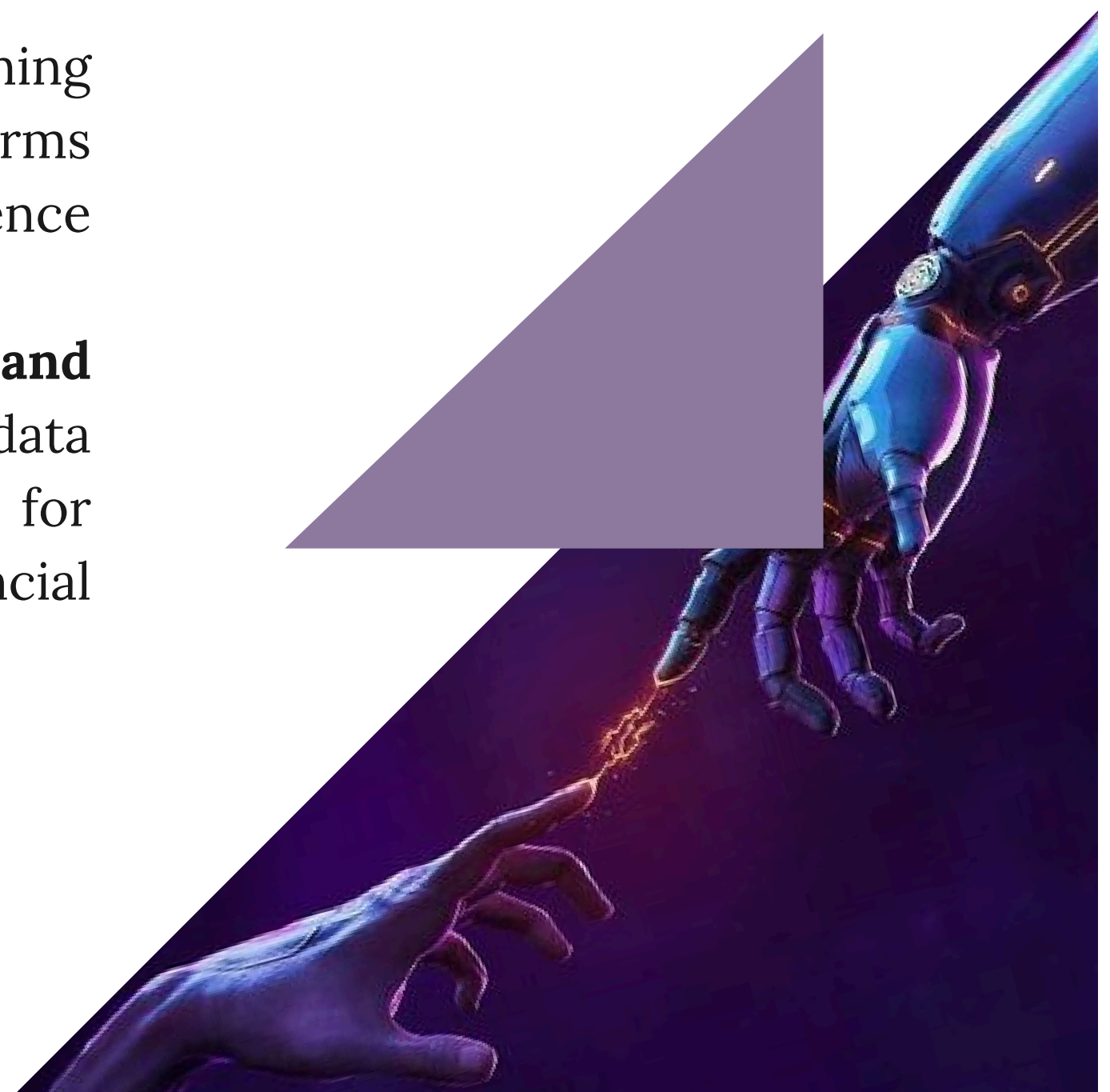


# THEMES OF DISCUSSION



- **AI-driven Financial Analytics:** Strategies and innovations in leveraging AI for financial data analysis and predictive modeling.
- **Blockchain Applications in Financial Services:** Exploring blockchain's potential to revolutionize transparency, security, and efficiency in financial transactions.

- **Digital Banking Experiences:** Examining the adoption of digital banking platforms and their impact on customer experience and financial inclusion.
- **Data Science for Risk Management and Fraud Detection:** Innovations in data analytics and machine learning for mitigating risks and combating financial fraud.



## SPECIAL PANELS

01

### Advocacy and Collaboration:

- Fostering partnerships among stakeholders to promote regulatory frameworks that support responsible Fintech innovation.

02

### Policy Development and Regulation:

- Addressing regulatory challenges and opportunities to facilitate the sustainable growth of Fintech in African markets.

03

### Investment in Research and Development:

- Supporting initiatives that drive technological advancements and scalability in Fintech solutions across Africa.



## CONCLUSION

The AI2SD Global Summit symposium series on Digital Fintech and Financial Services in Africa serves as a pivotal platform for shaping the future of financial services on the continent. By facilitating collaborative discussions and knowledge sharing, the symposium aims to catalyze innovations that drive economic development and financial inclusion across Africa.

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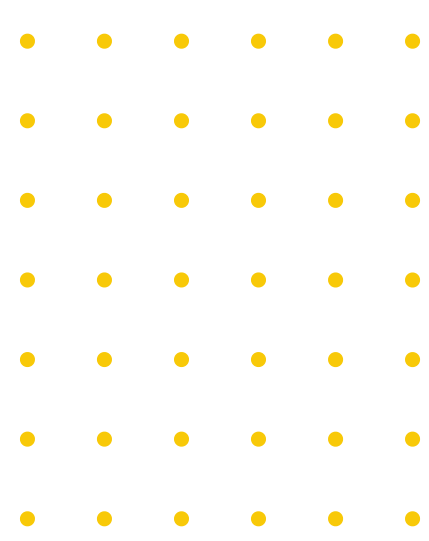
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**AI2SD SYMPOSIA SERIES**

**Education And  
Culture Driven By  
Digital Technology**





## INTRODUCTION

The AI2SD Symposia Series is dedicated to exploring the integration of technology into education and culture, which is crucial for enhancing accessibility, personalization, and global connectivity in learning. This symposium brings together distinguished speakers and experts to discuss advancements in Education and Culture Driven By Digital Technology, emphasizing the transformative potential of Artificial Intelligence (AI) and Sustainable Development.

## ABOUT THE SYMPOSIUM

The AI2SD Global Summit Symposia series bridges AI and sustainable development for global progress. By focusing on Education and Culture Driven By Digital Technology, this series ensures that advancements address crucial educational and cultural challenges, fostering knowledge sharing and cultural preservation worldwide.

## KEYNOTE ADDRESS

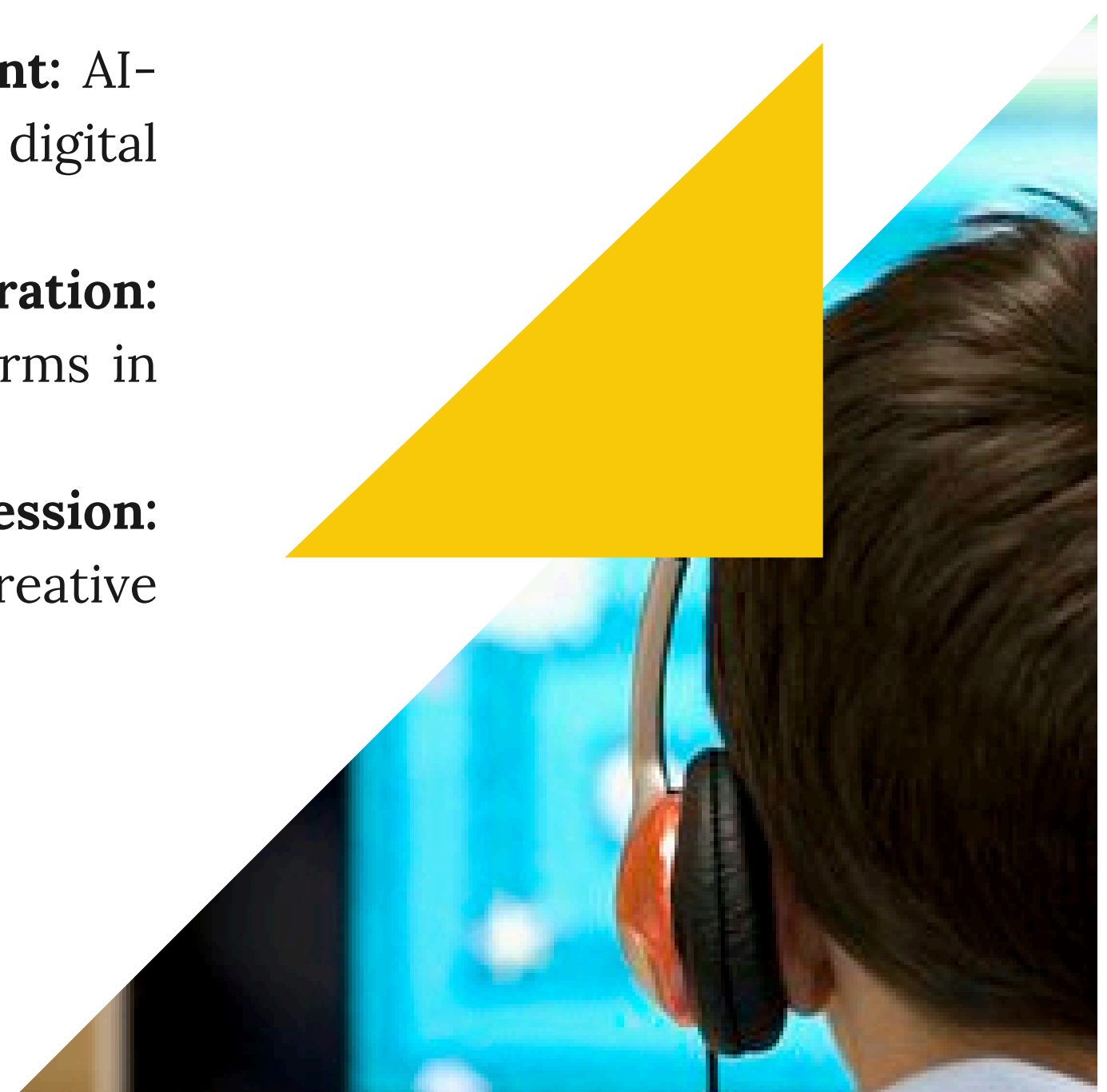
The distinguished speakers highlight the transformative power of digital technology in revolutionizing education and culture, emphasizing how technological innovations promise enhanced learning experiences, improved accessibility, and increased cultural exchange. The talks are dedicated to the responsible adoption of digital technologies, ensuring ethical use, and maximizing benefits for global education equity and cultural enrichment.

# THEMES OF DISCUSSION



- **Global Education Challenges and Digital Solutions:** Discussing strategies and solutions to overcome global education challenges through digital technology-driven innovations.
- **Cultural Preservation and Digital Archives:** Strategic approaches to preserving cultural heritage using digital technologies.
- **Innovative Educational Technologies:** The role of AI in education, including personalized learning tools and virtual classrooms.

- **Digital Literacy and Skills Development:** AI-driven approaches to enhancing digital literacy and skills.
- **Cross-Cultural Exchange and Collaboration:** The impact and future of digital platforms in fostering cross-cultural exchange.
- **Digital Storytelling and Creative Expression:** Innovations in digital storytelling and creative expression.





## SPECIAL PANELS

01

### Advocacy and Collaboration:

- Fostering collaboration among stakeholders, including governments, industry partners, and educational institutions, promotes knowledge sharing, best practices, and collective action for sustainable educational and cultural innovation.

02

### POLICY DEVELOPMENT AND REGULATION

- Global organizations establish regulations and guidelines to govern the ethical use and integration of digital technologies in education and culture. Ensuring adherence to safety standards, privacy protection, and equitable access fosters trust and reliability in digital solutions.

03

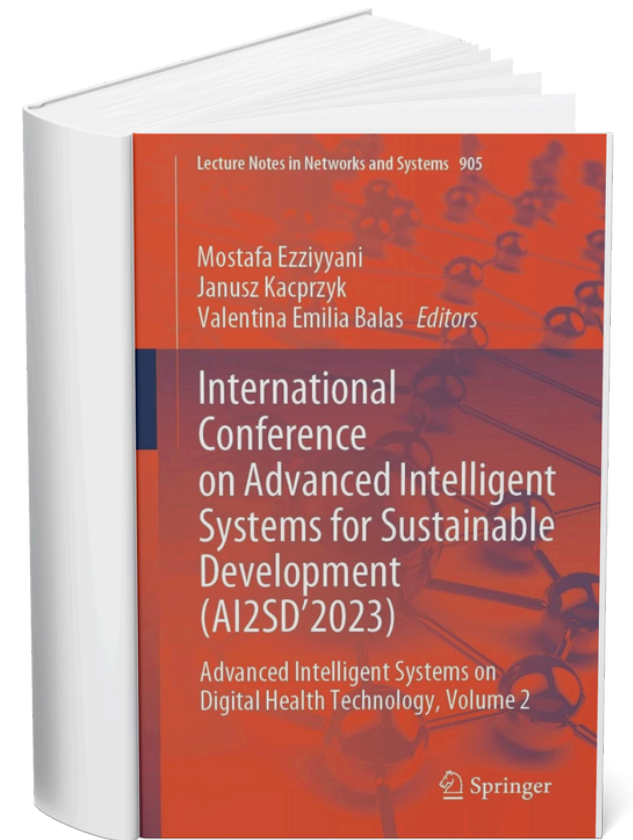
### INVESTMENT IN RESEARCH AND DEVELOPMENT

- Organizations allocate resources and funding to support research initiatives aimed at advancing digital technologies in education and culture. This drives the development of new AI algorithms, digital tools, and platforms, accelerating progress in educational delivery and cultural preservation.





# AI2SD PUBLISHED BOOK



## AI2SD'2024

**VOLUME 1:** INTERNATIONAL CONFERENCE ON ADVANCED INTELLIGENT SYSTEMS FOR SUSTAINABLE DEVELOPMENT (AI2SD' 2024)

[LINK : HTTPS://LINK.SPRINGER.COM/BOOK/9783031913341](https://link.springer.com/book/9783031913341)

**VOLUME 2:** AI2SD GLOBAL SUMMIT SYMPOSIUM SERIE ON HEALTH, ENERGY, ENVIRONMENT AND AGRICULTURE, VOLUME 2

[LINK : HTTPS://LINK.SPRINGER.COM/BOOK/9783031913365](https://link.springer.com/book/9783031913365)

## AI2SD'2023

**VOLUME 1:** INTERNATIONAL CONFERENCE ON ADVANCED INTELLIGENT SYSTEMS FOR SUSTAINABLE DEVELOPMENT

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**VOLUME 2:** INTERNATIONAL CONFERENCE ON ADVANCED INTELLIGENT SYSTEMS FOR SUSTAINABLE DEVELOPMENT

[HTTPS://LINK.SPRINGER.COM/BOOK/10.1007/978-3-031-52385-4](https://link.springer.com/book/10.1007/978-3-031-52385-4)

**VOLUME 3:** INTERNATIONAL CONFERENCE ON ADVANCED INTELLIGENT SYSTEMS FOR SUSTAINABLE DEVELOPMENT

[HTTPS://LINK.SPRINGER.COM/BOOK/10.1007/978-3-031-52388-5](https://link.springer.com/book/10.1007/978-3-031-52388-5)

**VOLUME 4:** INTERNATIONAL CONFERENCE ON ADVANCED INTELLIGENT SYSTEMS FOR SUSTAINABLE DEVELOPMENT

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## AI2SD'2022

**VOLUME 1:** INTERNATIONAL CONFERENCE ON ADVANCED INTELLIGENT SYSTEMS FOR SUSTAINABLE DEVELOPMENT

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## ■ AI2SD'2020

**VOLUME 1:** ADVANCED INTELLIGENT SYSTEMS FOR SUSTAINABLE DEVELOPMENT  
[HTTPS://LINK.SPRINGER.COM/BOOK/10.1007/978-3-030-90633-7](https://link.springer.com/book/10.1007/978-3-030-90633-7)

**VOLUME 2:** ADVANCED INTELLIGENT SYSTEMS FOR SUSTAINABLE DEVELOPMENT  
[HTTPS://LINK.SPRINGER.COM/BOOK/10.1007/978-3-030-90639-9](https://link.springer.com/book/10.1007/978-3-030-90639-9)

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## ■ AI2SD'2019

**VOLUME 1:** ADVANCED INTELLIGENT SYSTEMS FOR EDUCATION AND INTELLIGENT LEARNING SYSTEM  
[HTTPS://LINK.SPRINGER.COM/BOOK/10.1007/978-3-030-36653-7](https://link.springer.com/book/10.1007/978-3-030-36653-7)

**VOLUME 2:** ADVANCED INTELLIGENT SYSTEMS FOR SUSTAINABLE DEVELOPMENT APPLIED TO AGRICULTURE AND HEALTH  
[HTTPS://LINK.SPRINGER.COM/BOOK/10.1007/978-3-030-36664-3](https://link.springer.com/book/10.1007/978-3-030-36664-3)

**VOLUME 3:** ADVANCED INTELLIGENT SYSTEMS FOR SUSTAINABLE DEVELOPMENT APPLIED TO ENVIRONMENT, INDUSTRY AND ECONOMY  
[HTTPS://LINK.SPRINGER.COM/BOOK/10.1007/978-3-030-36671-1](https://link.springer.com/book/10.1007/978-3-030-36671-1)

**VOLUME 4:** ADVANCED INTELLIGENT SYSTEMS FOR APPLIED COMPUTING SCIENCES  
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**VOLUME 5:** ADVANCES INTELLIGENT SYSTEMS FOR MULTIMEDIA PROCESSING AND MATHEMATICAL MODELING  
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**VOLUME 6:** ADVANCED INTELLIGENT SYSTEMS FOR NETWORKS AND SYSTEMS  
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