تحت الرعاية السامية لصاحب الجلالة الملك محمد السادس

UNDER THE HIGH PARTONAGE OF HIS MAJESTY THE KING MOHAMED VI

Energy, Environment and Agriculture
SYMPOSIUM
Serie N°2

THE 5th EDITION OF THE INTERNATIONAL CONFERENCE

AI2SD'2023

GLOBAL SUMMIT SYMPOSIUM ON ENERGY, ENVIRONMENT, AGRICULTURE AND INDUSTRY

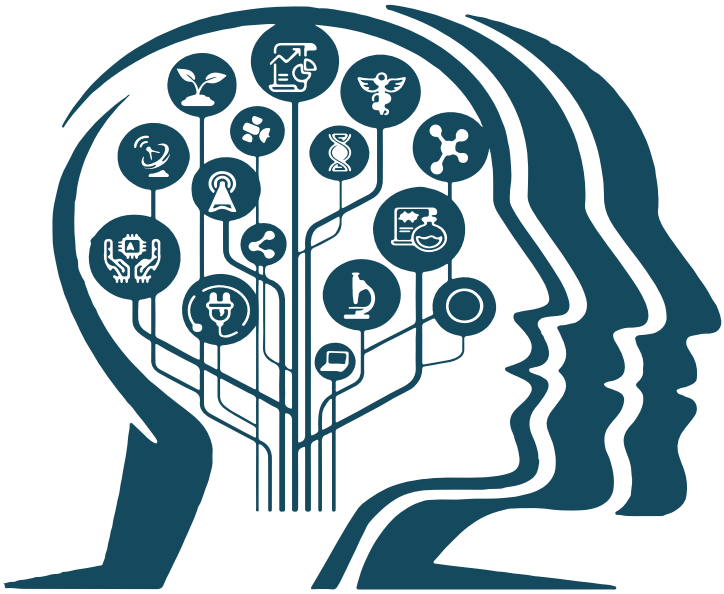
EVENT PROGRAM

NOVEMBER 15-17, 2023

www.ee.ai2sd-gss.com

CONFERENCE CENTER OF UCA
MARRAKESH, MOROCCO

www.ai2sd.com



AI2SD'2023

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01 COMMITTEE

CHAIRS

SYMPOSIUM CHAIRS

SYMPOSIUM CO-CHAIRS

HONORARY PRESIDENTS

INTERNATIONAL HONORARY GUESTS & HONORARY GUESTS

CHAIRS

GENERAL CHAIR
PROF. MOSTAFA EZZIYYANI
ABDELMALEK ESSAADI UNIVERSITY
MOROCCO

HONORARY CHAIR
PROF. JANUSZ KACPRZYK
POLISH ACADEMY OF SCIENCES POLAND

HONORARY CHAIR
PROF. BALAS VALENTINA EMILIA
UNIVERSITY OF ARAD, ROMANIA

SYMPOSIUM CHAIRS

SYMPOSIUM CHAIR
PROF. HIBA ASRI
PROFESSOR AT FSS MARRAKECH
MOROCCO

SYMPOSIUM HONORARY CHAIR
PROF. EL HASSAN EL MOUDEN
DEAN DE FSS MARRAKECH MOROCCO

SYMPOSIUM CO-CHAIRS

PROF. OUSSAMA RAYIS
ARAB ORGANIZATION FOR AGRICULTUR-
AL DEVELOPMENT FOR INTERNATIONAL
RELATIONSHIPS

PROF. YOUNES OULAD SAYAD
FSA-AM, IBN ZOHR UNIVERSITY AGADI,
MOROCCO

PROF. ANAS ABOU EL KALAM
CADDY AYAD UNIVERSITY - MOROCCO

PROF. ASMA CHAIK
AI2SD INTERNATIONAL
COOPERATION COORDINATOR

HONORARY PRESIDENTS

PROF. ABDELLATIF MIRAOUI

MINISTER OF HIGHER EDUCATION, SCIENTIFIC RESEARCH AND INNOVATION - MOROCCO

MR. NIZAR BARAKA

MINISTER OF EQUIPMENT & WATER - MOROCCO

MR. RIAD MEZZOUR

MINISTRE OF INDUSTRY AND COMMERCE MOROCCO

INTERNATIONAL HONORARY PRESIDENTS

IBRAHIM AHMED AL-DUKHAIRI

DIRECTOR GENERAL OF THE ARAB ORGANIZATION FOR AGRICULTURAL DEVELOPMENT (AOAD)

DR. NABIL MOHAMED AHMED

MINISTER OF HIGHER EDUCATION AND RESEARCH - DJIBOUTI

MME. MBARANGA GASARABWE

FORMER DEPUTY SECRETARY-GENERAL OF THE UNITED NATIONS IN MALI AND HONORARY PRESIDENT OF THE CDA AND PRESIDENT OF THE SCIENTIFIC COUNCIL RWANDA

DR. TOURÉ HAMADOUN

FORMER SECRETARY GENERAL OF THE INTERNATIONAL TELECOMMUNICATIONS UNION ITU AND HONORARY PRESIDENT OF THE CDA AND PRESIDENT OF THE SCIENTIFIC COUNCIL MALI

INTERNATIONAL HONORARY GUESTS

DR. XING JI GUO

PRESIDENT OF ARAB STATES-CHINA INNOVATION CENTER FOR ECONOMIC AND TRADE COOPERATION - CHINA

DR. JASSIM HAJI

PRESIDENT ARTIFICIAL INTELLIGENCE SOCIETY / PRESIDENT INTERNATIONAL GROUP OF ARTIFICIAL INTELLIGENCE

DR. STEVE NOURI

GENERATIVE AI FOUNDER | ADVISOR

PROF. ABDELMAJID BENAMARA

HEAD OF THE FEDERATION OF ARAB SCIENTIFIC RESEARCH COUNCILS - LEAGUE OF ARAB STATES.

PR. FAIZE GARGOUR

SFAX UNIVERSITY TUNISIA

PROF. JEMAL ABAFITA

PRESIDENT OF JIMMA UNIVERSITY, ETHIOPIA

MR. AMADOU DIAWARA

PRESIDENT OF FAMIB AND CLUSTER DIGITAL AFRICA - MALI

MME. IMEN AMEUR

PRESIDENT OF CDA INNOVATION AND MEMBER OF THE SCIENTIFIC COUNCIL

DR. CHEN XI

GENERAL MANAGER KINGWAY GROUP OVERSEAS BUSINESS DEPARTMENT MINISTER, XINGWEI AVIATION TECHNOLOGY CO., LTD - CHINA

DR. YU JUNYONG

CEO OF ZHE JIANG CHAOXING NEW ENERGY- CHINA

MRS. CHAHIRA BEN SALAH DALALI

AMBASSADOR OF THE CDA AND MEMBER OF THE SCIENTIFIC COUNCIL

MR. RACHID EL GANBOUR

AMBASSADOR OF THE CDA AND MEMBER OF THE SCIENTIFIC COUNCIL

HONORARY GUESTS

PROF. BELAID BOUGADIR

PRESIDENT OF CADY AYYAD UNIVERSITY

PROF. MOHA TAOURIRTE

DEAN OF FACULTY OF SCIENCES AND TECHNIQUES OF MARRAKECH

PROF. MOHAMED AZIZ LAHLOU

PRESIDENT OF PRIVATE UNIVERSITY OF FES

PROF. ABDELATIF MOUKRIM

PRESIDENT OF HASSAN 1ST UNIVERSITY OF SETTAT

PROF. BELKACEM CHAGAR

DIRECTOR OF MILITARY HOSPITAL - MARRAKECH

MOHAMED KNIDIRI

DIRECTOR OF CNRST MOROCCO

MME. JAMILA EL ALAMI

DIRECTOR OF CNRST MOROCCO

MR. KARIM AMOR

PRESIDENT OF MOROCCAN ENTREPRENEURS WORLDWIDE AT CGEM

PROF. ILHAM BERRADA

DIRECTOR OF ENSIAS RABAT MOROCCO

PROF. MUSTAPHA DIANI

DEAN OF FACULTY OF SCIENCES AND TECHNIQUES OF TANGIER

PROF. KAMAL REKLAOUI

DIRECTOR OF ENSA OF TETUAN MOROCCO

PROF. MOHAMMED ESSAAD

PRESIDENT OF EMSI MOROCCO

PROF. MOHAMMED OUAZZANI JAMIL

DEAN OF FACULTY OF ENGINEERING SCIENCES - UPF

PROF. KHALID BIKRI

PROFESSOR AT ENSAM-RABAT HONORA

MR. RACHID TAOUSSI

MOROCCAN FOOTBALL MANAGER AND FORMER PLAYER

SOCIO-ECONOMIC SECTOR HONORARY GUESTS

MR. KAMAL BENKHALED

PRESIDENT OF THE CHAMBER OF COMMERCE, INDUSTRY AND SERVICES OF THE MARRAKECH-SAFI REGION

MR. ABDELATIF AFFILAL

PRESIDENT OF THE CHAMBER OF COMMERCE, INDUSTRY AND SERVICES OF TANGIER-TETUAN-EL HOUCEMA

MR. HASSAN SAKHI

PRESIDENT OF THE CHAMBER OF COMMERCE, INDUSTRY AND SERVICES OF RABAT-SALE

02
OVERVIEW

ABOUT THE EVENT

APPLICATIONS DOMAINS

UCA CADI AYYAD UNIVERSITY

INNOVATION AND TECHNOLOGY TRANSFER

FOUNDATION ITTF

ABOUT THE EVENT

THE GLOBAL SUMMIT SYMPOSIUM ON ENERGY, ENVIRONMENT, AGRICULTURE AND INDUSTRY: AI2SD'23 SYMPOSIA SERIE N° 4 WILL PROVIDE AN EXCELLENT INTERNATIONAL FORUM FOR SHARING KNOWLEDGE AND RESULTS IN THEORY, METHODOLOGY AND APPLICATIONS OF ENERGY 4.0 AGRICULTURE 4.0. THE AIM OF THE CONFERENCE IS TO PROVIDE A PLATFORM TO THE RESEARCHERS AND PRACTITIONERS FROM BOTH ACADEMIA AS WELL AS INDUSTRY TO MEET AND SHARE CUTTING-EDGE DEVELOPMENT IN THE ENERGY.

EXPERTS AND LEADING RESEARCHERS ON THE RECENT CHALLENGES IN SCIENTIFIC RESEARCH AND ASSOCIATED AREAS OF RENEWABLE ENERGIES AND ENVIRONMENT WILL SHARE THE CREDIBLE RESEARCH FINDINGS AND TOOLS THAT THEY USE TO ACHIEVE BETTER RESULTS. THIS INTERNATIONAL CONFERENCE ON ENERGY AND ENVIRONMENT IS BOUND TO GENERATE A NUMBER OF NEW IDEAS AND EXPERIENCES THAT PARTICIPANTS, IRRESPECTIVE OF WHO THEY ARE (EXPERIENCED SCIENTISTS, SEASONED PROFESSIONALS OR YOUNG SCHOLARS AT THE EARLY STAGES OF THEIR CAREERS) CAN DERIVE AND MAKE USE OF IN SOME FORM OF ANOTHER, TOWARDS THE ADVANCEMENT OF THEIR CAREERS.

THE GLOBAL SUMMIT ON ENERGY, ENVIRONMENT AND AGRICULTURE SYMPOSIA SERIE PROVIDE A FORUM FOR DEVELOPING AND NETWORKING WITH AN INTERNATIONAL COMMUNITY OF SCHOLARS AND PRACTITIONERS WHO ARE INTERESTED IN ALL ASPECTS OF AGRICULTURE AND FOOD SECURITY : AGRICULTURE'S RECENT ADVANCEMENTS HAVE MADE FARMING ACTIVITIES MORE ACCEPTABLE AND COMFORTABLE FOR FARMERS. THESE DEVELOPMENTS OR TRENDS BENEFIT NOT JUST THE GROWTH OF AGRICULTURE, BUT ALSO THE CONDITIONS OF FARMERS.

Organizing Committee

APPLICATIONS DOMAINS

- RENEWABLE ENERGIES
- GREEN VIRTUAL TECHNOLOGIES
- MICRO GRID AND ENVIRONMENT
- ARTIFICIAL INTELLIGENCE
- CLIMATE CHANGE AND ENVIRONMENT
- INDUSTRY 4.0
- AGRICULTURE
- SMART CITIES

CADI AYYAD UNIVERSITY

UCA (UNIVERSITÉ CADI AYYAD) IS A UNIVERSITY ESTABLISHED IN 1978, WHICH HAS CONSTANTLY EVOLVED AND CONFIRMED ITS POSITION AT THE NATIONAL AND INTERNATIONAL LEVELS, BOTH THROUGH THE GROWTH OF ITS STUDENT BODY AND THE DIVERSIFICATION OF ITS RANGE OF PROGRAMS, AS WELL AS THROUGH RESEARCH AND NATIONAL AND INTERNATIONAL INFLUENCE.

ITS MAIN PRINCIPLES ARE MULTIDISCIPLINARITY, PEDAGOGICAL AND SCIENTIFIC AUTONOMY, ADMINISTRATIVE AND FINANCIAL AUTONOMY, AS WELL AS OPENNESS.

TODAY, UNIVERSITÉ CADI AYYAD COMPRISES 15 UNIVERSITY INSTITUTIONS, 10 OF WHICH ARE LOCATED IN MARRAKECH, 3 IN SAFI, AN EST (HIGHER TECHNICAL SCHOOL) AND A UNIVERSITY CENTER IN KELAA DES SRAGHNA, AS WELL AS AN EST IN ESSAOUIRA.

UCA MISSION:

1. INITIAL AND CONTINUING EDUCATION;
2. SCIENTIFIC AND TECHNOLOGICAL RESEARCH;
3. DISSEMINATION OF CULTRE AND SCIENTIFIC AND TECHNICAL INFORMATION;
4. NATIONAL AND INTERNATIONAL COOPERATION;
5. CAREER GUIDANCE AND PROFESSIONAL INTEGRATION;
6. CONTRIBUTION TO REGIONAL AND NATIONAL ECONOMIC DEVELOPMENT.

PROF. BELAID BOUGADIR
PRESIDENT OF CADY AYYAD UNIVERSITY

INNOVATION AND TECHNOLOGY TRANSFER FOUNDATION ITTF

OVERVIEW OF ITTF

INNOVATION AND TECHNOLOGY TRANSFER FOUNDATION IS A NON-PROFIT ORGANIZATION THAT AIMS TO PROMOTE INNOVATION AND TECHNOLOGY TRANSFER, WHICH IS THE PROCESS OF TRANSFERRING KNOWLEDGE, TECHNOLOGY, AND SKILLS FROM ONE ORGANIZATION OR INDIVIDUAL TO ANOTHER. ITTF IS TYPICALLY ESTABLISHED TO SUPPORT THE GROWTH AND DEVELOPMENT OF INNOVATIVE IDEAS, PRODUCTS, AND SERVICES. THEY FOCUS ON A PARTICULAR SECTOR OR INDUSTRY AND INFORMATION TECHNOLOGY.

1. INCUBATION AND ACCELERATION PROGRAMS: INNOVATION AND TECHNOLOGY TRANSFER FOUNDATIONS MAY OFFER INCUBATION AND ACCELERATION PROGRAMS TO START-UPS TO PROVIDE THEM WITH RESOURCES, MENTORSHIP, AND GUIDANCE TO GROW THEIR BUSINESSES. THESE PROGRAMS MAY ALSO PROVIDE ACCESS TO SPECIALIZED FACILITIES, EQUIPMENT, AND TECHNICAL EXPERTISE TO HELP START- UPS BRING THEIR PRODUCTS OR SERVICES TO MARKET.

2. NETWORKING AND PARTNERSHIP OPPORTUNITIES: AN INNOVATION AND TECHNOLOGY TRANSFER FOUNDATION MAY FACILITATE NETWORKING AND PARTNERSHIP OPPORTUNITIES FOR START-UPS BY CONNECTING THEM WITH POTENTIAL INVESTORS, CUSTOMERS, AND PARTNERS. THIS CAN HELP START-UPS TO BUILD THEIR NETWORKS AND EXPAND THEIR BUSINESSES.

3. INTELLECTUAL PROPERTY PROTECTION AND LICENSING: INNOVATION AND TECHNOLOGY TRANSFER FOUNDATIONS MAY OFFER SUPPORT TO START-UPS IN PROTECTING THEIR INTELLECTUAL PROPERTY THROUGH PATENT FILINGS, TRADEMARK REGISTRATION, AND COPYRIGHT PROTECTION. THEY MAY ALSO PROVIDE ASSISTANCE IN LICENSING TECHNOLOGY OR INTELLECTUAL PROPERTY TO OTHER COMPANIES OR INDIVIDUALS.

4. EDUCATION AND TRAINING PROGRAMS: INNOVATION AND TECHNOLOGY TRANSFER FOUNDATIONS MAY OFFER EDUCATION AND TRAINING PROGRAMS TO HELP START-UPS DEVELOP THE NECESSARY SKILLS AND KNOWLEDGE TO SUCCEED IN THEIR INDUSTRY. THESE PROGRAMS MAY COVER TOPICS SUCH AS BUSINESS DEVELOPMENT, MARKETING, SALES, AND FUNDRAISING.

ITTF
Innovation & Technology Transfer Foundation

WWW.ITTF.MA

PROF. DR. MOSTAFA EZZIYYANI
CEO AND PRESIDENT OF ITTF

INNOVATION AND TECHNOLOGY TRANSFER FOUNDATION ITTF

APPLICATION DOMAINS

THE ITTF FOUNDATION UTILIZES CUTTING-EDGE TECHNOLOGIES AND AI ACROSS SEVERAL VITAL APPLICATION DOMAINS TO DRIVE TRANSFORMATIVE CHANGE AND ADDRESS GLOBAL CHALLENGES:

1.HEALTH:

THE ITTF FOUNDATION UTILIZES TECHNOLOGY TO ENHANCE HEALTHCARE DELIVERY, MEDICAL RESEARCH, PATIENT CARE, AND PUBLIC HEALTH. THIS ENCOMPASSES TELEMEDICINE SOLUTIONS, HEALTHCARE DATA ANALYTICS, ELECTRONIC HEALTH RECORDS (EHR) SYSTEMS, MEDICAL IMAGING, WEARABLE HEALTH DEVICES, REMOTE PATIENT MONITORING, AND HEALTH INFORMATION SYSTEMS.

- TELEMEDICINE AND REMOTE HEALTHCARE

-HEALTH DATA ANALYSIS.

2. AGRICULTURE:

IN THE AGRICULTURAL DOMAIN, THE ITTF FOUNDATION FOCUSES ON EMPLOYING TECHNOLOGY TO IMPROVE AGRICULTURAL PRACTICES, INCREASE PRODUCTIVITY, AND PROMOTE SUSTAINABLE FARMING. THIS INVOLVES PRECISION AGRICULTURE, SMART FARMING TECHNOLOGIES, AGRICULTURAL DRONES, SOIL AND CROP MONITORING, AUTOMATED IRRIGATION SYSTEMS, AND SUPPLY CHAIN OPTIMIZATION.

-PRECISION AGRICULTURE.

- CROP AND SOIL HEALTH MONITORING.

-SUPPLY CHAIN OPTIMIZATION.

3. CLIMATE CHANGE:

THE ITTF FOUNDATION IS DEDICATED TO ADDRESSING CLIMATE CHANGE BY LEVERAGING TECHNOLOGY TO MONITOR, MITIGATE, AND ADAPT TO ENVIRONMENTAL CHANGES. THIS , INCLUDES CLIMATE DATA ANALYSIS, WEATHER FORECASTING, RENEWABLE ENERGY SOLUTIONS CARBON FOOTPRINT REDUCTION TECHNOLOGIES, AND SUSTAINABLE RESOURCE MANAGEMENT.

- CLIMATE MODELING AND PREDICTION.

-RENEWABLE ENERGY OPTIMIZATION.

4. EDUCATION:

WITHIN THE REALM OF EDUCATION, THE ITTF FOUNDATION AIMS TO ENHANCE LEARNING OUTCOMES AND ACCESSIBILITY THROUGH TECHNOLOGICAL INNOVATIONS. THIS ENCOMPASSES E-LEARNING PLATFORMS, DIGITAL CLASSROOMS, EDUCATIONAL APPS, VIRTUAL REALITY (VR) FOR EDUCATION, ONLINE ASSESSMENT SYSTEMS, AND ADAPTIVE LEARNING SOLUTIONS, AMONG OTHERS.

- ADAPTIVE LEARNING PLATFORMS.

- INTELLIGENT TUTORING SYSTEMS.

-EDUCATION DATA ANALYTICS.

5. INDUSTRY:

THE ITTF FOUNDATION ACTIVELY WORKS TO REVOLUTIONIZE VARIOUS INDUSTRIAL PROCESSES AND PROMOTE INDUSTRY 4.0. THIS INCLUDES THE APPLICATION OF THE INTERNET OF THINGS (IOT), ARTIFICIAL INTELLIGENCE (AI), ROBOTICS, AUTOMATION, DATA ANALYTICS, AND PREDICTIVE MAINTENANCE IN MANUFACTURING, LOGISTICS, SUPPLY CHAIN MANAGEMENT, AND INDUSTRIAL SAFETY.

-PREDICTIVE MAINTENANCE.

- QUALITY CONTROL AND AUTOMATION.

-SUPPLY CHAIN AND LOGISTICS OPTIMIZATION.

·获得荣誉
Obtaining Honors

先后荣获中国致公党中央脱贫攻坚个人奖、2020度社会贡献榜人物奖、全国道德模范提名奖等荣誉，中央电视台、人民网、新华网、光明日报等媒体报道转载近百次。

He has won the China Zhigong Party Central Poverty Alleviation Individual Award, the 2020 Social Contribution Role Model Award, the National Moral Model Nomination Award and other honors, and has been reported and reprinted nearly 100 times by CCTV, People's Daily, Xinhuanet, Guangming Daily and other media.

·工作职责
Job responsibilities

在海外联合实验室建设、企业经贸交流、项目合作、友城对接、对阿人才培养、论坛展览、海外宣传推介服务中国-阿拉伯国家博览会方面做出了大量卓有成效的工作，取得了一批务实落地成果，与阿拉伯国家建立了良好的交流服务网络，推进中阿经济技术合作，取得阿拉伯国家政企商学界的广泛认可及国家部委相关领导的肯定。

He has done a lot of effective work in the construction of overseas joint laboratories, enterprise economic and trade exchanges, project cooperation, sister cities docking, training of Afghan talents, forums and exhibitions, and overseas publicity and promotion services for the China-Arab States Expo, and achieved a number of practical results, established a good exchange service network with Arab states, and promoted China - Arab economic and technological cooperation. It has been widely recognized by the political, business and academic circles of Arab countries and affirmed by the relevant leaders of national ministries and commissions.

·人物介绍
Character Introduction

邢纪国，中国致公党中央海联委委员、全国青联委员、阿拉伯国家-中国经贸合作创新中心主席、中国-阿拉伯国家技术文化转移中心主任、中国-阿拉伯国家青年创业园管委会主任、中国国际科技促进会技术协作部主任、农业装备国际（产能）合作联盟副理事长、世界传统医学科学院副秘书长等。

Residential architecture exists for life and develops for life. Xing Jiguo, Member of the Central Oversea Alliance Committee of the Chinese Zhigong Party, member of the All-China Youth Federation, Chairman of the Arab States-China Economic and Trade Cooperation Innovation Center, Director of the China-Arab States Technology and Culture Transfer Center, Director of the Management Committee of the China-Arab Youth Entrepreneurship Park, Director of the Technical Cooperation Department of China International Association for Promotion of Science and Technology and Technology, Deputy director of the International Cooperation Alliance on Agricultural Equipments, and Deputy Secretary of World Academy of Traditional Medicine.

传承中阿友谊·搭建合作平台

03
EVENT DESCRIPTION

EVENT SHEET

CONFERENCE PROGRAM

PANELS & KEYNOTE SPEAKERS

PARALLEL SESSION

STATISTICS ABOUT AI2SD

EVENT SHEET

TITLE	AI2SD'23 SYMPOSIUM ON ENERGY ENVIRONMENT AND AGRICULTURE
DATE	NOMVEMBER 15-17, 2023
ADRESS	UCA CONFERENCE CENTER
WEBSITE	HTTPS://EE.AI2SD-GSS.COM/
ORGANIZED BY	FACULTY OF SCIENCES SEMLALIA NATIONAL SCHOOL OF APPLIED SCIENCES
SYMPOSIUM CHAIRS	PR. HIBA ASRI, UCA PR. ANAS ABOU EL KALAMA, UCA PR. YOUNES OULAD SAYAD, UIZ
PROGRAM	- PLENARY CONFERENCES BY EXPERTS, PROFESSORS AND INDUSTRIES - PANELS ON ENERGY , ENVIRONNEMENT AND AGRICULTURE - PARALLEL SESSIONS - STANDS OF COMPANIES

CONFERENCE PROGRAM

DAY 1 : WEDNESDAY, NOVEMBER 15, 2023

Opening Ceremony		
16h-16h15	AI2SD General Chair, Abdelmalek Essaadi University and CEO of ITTF **Prof. Mostafa EZZIYYANI**	Welcome Speech and AI2SD Presentation
	President of Cady Ayyad University (UCA) - Marrakesh **Prof. Belaid BOUGADIR**	
	Dean of Faculty of Sciences Semlalia, Marrakesh **Prof. El Hassan EL MOUDEN**	
16h15-16h45	Minister of Higher Education, Scientific Research and Innovation – Morocco **Prof. Abdellatif MIRAOUI**	Official Speech of Honorary Presidents
	Minister of Industry, Trade, and Green Economy - Morocco **Mr. Ryad Mezzour**	
	Minister of Equipment and Water - Morocco **Dr. Nizar BARAKA**	
	Minister of Higher Education, and Innovation – Djibouti **Dr. Nabil MOHAMED AHMED**	
	Director of the Arab Organization for Agricultural Development (AOAD) **Prof. Ibrahim Adam Ahmed El-DUKHERI**	
	Former Deputy Secretary-General of the United Nations in Mali and Honorary President of the CDA and President of the scientific Council – Rwanda **Mme. Mbaranga GASARABWE**	
	Former secretary general of the international telecommunications union ITU and Honorary President of the CDA and President of the scientific Council, Mali **Dr. Touré Hamadoun**	
16h45-17h30	President of Hassan 1st University **Prof. Abdelatif MOUKRIM**	Speech of Honorary Guests
	President of Private Fes University **Prof. Mohammed LAHLOU**	
	Director of Military Hospital – Marrakech Faculty of Medicine and Pharmacy Rabat **Prof. Belkacem CHAGAR**	
	President of Arab States-China Innovation Center for Economic and Trade Cooperation - China **Dr. Xing JIGUOR**	
17h30-17h45	Chair of AI2SD'2023 Global Summit Symposium on Energy, Environment, Agriculture and Industry **Prof. Hiba ASRI**	Speech of Symposium Chair
17h45-18H	- AI2SD Awards:AI2SD'2023 Annual Excellence Award for Research and Development - China Delegation Awards: World Medical Heritage Academy of Sciences	Awards
18h-18h30	- The official statement and announcement of the Moroccan Chinese Center for Economic and Commercial Innovation - Signature of Agreements	Agreements

CONFERENCE PROGRAM

DAY 1 : WEDNESDAY, NOVEMBER 15, 2023

8h – 9h	Welcome and Registration	Location
9h-10h30	**Panel 1:** Sustainable Agriculture 4.0 - AI based data driven food security modeling. Location: UCA Conference Building - Mode : Hybrid	UCA Conference Building
10h30-12h	**Panel 2:** AI-Driven Energy Planning and Management For Enabled Climate Change Adaptation Location: UCA Conference Building - Mode : Hybrid	
12h-12h30	Coffee Break	
12h30-14h	**Panel 3:** African Leadership in ICT Skills for Digital Technology and Capacity Advancement Location: UCA Conference Building - Mode : Hybrid	
14h-15h30	Lunch	UCA Club
16h-17h30	Official Opening Ceremony	UCA Conference Building
17h30-18h	Coffee Break	
18h-19h30	**Governance Strategy Panel:** Driving Transformation Challenge, Governance Strategies in The Technological Revolution And AI Era Location: UCA Conference Building - Mode : Hybrid	

SPECIAL CHINA DELEGATION PROGRAM

THEME : CHINA'S BELT AND ROAD INITIATIVE IN THE AFRICAN TRADE, INVESTMENT, AND FINANCE LANDSCAPE: CASE STUDY OF MOROCCAN MODEL

Time	Activities	MeetingLocation
9h-10h30	**China delegation Meeting 1** Meeting With Presidency of Cady Ayyad University – Marrakech	Meeting Room of Presidency of Cady Ayyad University
11h-12h	**China delegation Meeting 2** China delegation Meeting with CGEM and Grand Atlas Foundation- Marrakech	Building of Innovation City of UCA Marrakech
12h30-13h30	**China delegation Meeting 3** Meeting with the Presidency of the Chamber of Commerce and Industry and Services, &the Regional Center for Investment in Marrakech	Conference Room of Chamber of Commerce and Industry
14h45-15h45	Lunch	UCA Club
16h-18h30	**Attending the Opening Ceremony and AI2SD networking**	UCA Conference Building
18h30-19h30	**China delegation Meeting 5** B2B and Open AI2SD Networking and investment Opportunities	UCA Conference Building

CONFERENCE PROGRAM

DAY 2 : THURSDAY, NOVEMEBER 16, 2023

8h – 9h	**Welcome and registration**	
9h-10h30	**Panel 4:** Navigating The New Technology Challenges of Global Digital Transformation And Industry 4.0 For Future Generations Location: UCA Conference Building - Mode : Hybrid	UCA Conference Building
10h30-12h	**Panel 5:** Global Arab-Africa Young Investments for Technology Transfer And Innovation Growth Of Industry Revolution Location: UCA Conference Building - Mode : Hybrid	
12h-12h30	Coffee Break	UCA Conference Building
12h30-14h	**Panel 6:** Pioneering Women's LeadershipShaping the Future Of AI And The Industrial Revolution Location: UCA Conference Building - Mode : Hybrid	
14h-15h30	Lunch	Location: UCA Club
16h-17h30	Parallel Session PS 1 – PS 2 – PS 3 Location: UCA Conference Building	Location: UCA Conference Building
17h30-18h	Coffee Break	
18h-19h30	Parallel Session PS 4 – PS 5 – PS 6	

CONFERENCE PROGRAM

DAY 3 : FRIDAY, NOVEMEBER 17, 2023

8h – 9h	**Welcome and registration**	**UCA Conference Building**
9h-10h30	Parallel Sessions PS 7 – PS 8 – PS 9	UCA Conference Building
10h30-11h	Coffee Break	
11h-13h30	Table Round, Recommendations and certification	
14h	RECITINGTHELOYALTYTELEGRAM	
15h-18h	Guided tour of the tourist monuments of theMarrakech	
20h	Gala Diner	Medina

PANELS & KEYNOTE SPEAKERS

GOVERNANCE STRATEGY PANEL :

DRIVING TRANSFORMATION CHALLENGE, GOVERNANCE STRATEGIES IN THE TECHNOLOGICAL REVOLUTION AND AI ERA

DR. JASSIM HAJI

PRESIDENT ARTIFICIAL INTELLIGENCE SOCIETY / PRESIDENT INTERNATIONAL GROUP OF ARTIFICIAL INTELLIGENCE

PROF. ABDELMAJID BENAMARA

HEAD OF THE FEDERATION OF ARAB SCIENTIFIC RESEARCH COUNCILS - LEAGUE OF ARAB STATES.

PROF. MOSTAFA EZZIYYANI

ABDELMALEK ESSAADI UNIVERSITY MOROCCO

DR. XING JI GUO

PRESIDENT OF ARAB STATES-CHINA INNOVATION CENTER FOR ECONOMIC AND TRADE COOPERATION - CHINA

PROF. FAIZE GARGOURI

SFAX UNIVERSITY
TUNISIA

DR. NASSER KETTANI

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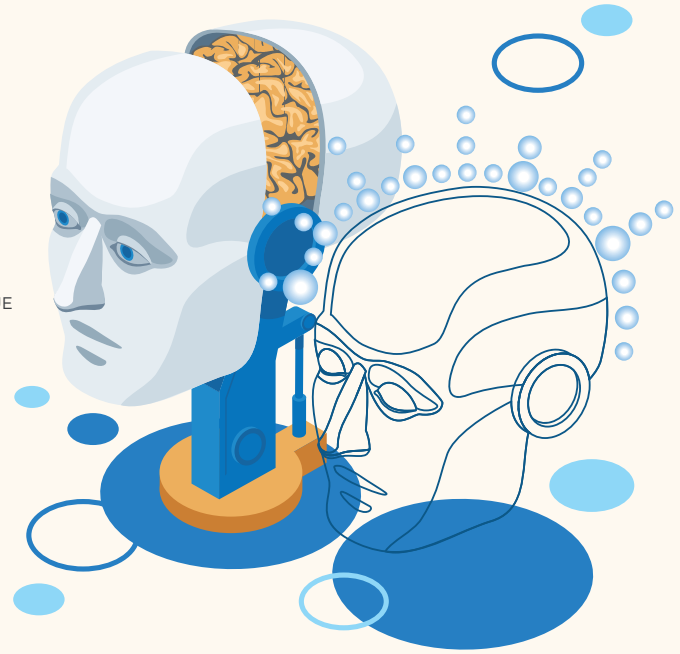
PRESIDENT OF THE MOROCCAN LEAGUE FOR SCIENTIFIC RESEARCH AND THE RIGHT TO HEALTH - MOROCCO



PANELS & KEYNOTE SPEAKERS

PANEL N° 1 :
SUSTAINABLE AGRICULTURE 4.0 - AI BASED DATA DRIVEN FOOD SECURITY MODELING

IBRAHIM AHMED AL-DUKHAIRI

DIRECTOR GENERAL OF THE ARAB ORGANIZATION FOR AGRICULTURAL DEVELOPMENT (AOAD)

PROF. OUSSAMA RAYIS

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PROF. JAIME LLORET MAURI

POLYTECHNIC UNIVERSITY OF VALENCIA, SPAIN

DR. SAID LFKIR

LMRSDS RABAT - MOROCCO

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FSA-AM, IBN ZOHR UNIVERSITY AGADI MOROCCO

PANELS & KEYNOTE SPEAKERS

PANEL N° 2 :
AI-DRIVEN ENERGY PLANNING AND MANAGEMENT FOR ENABLED CLIMATE CHANGE ADAPTATION

DR. YU JUNYONG

CEO OF ZHE JIANG CHAOXING NEW ENERGY- CHINA

PROF. EHTIRAM RAZA KHAN

ASSOCIATE PROFESSOR JAMIA HAMDARD, DELHI, INDIA

PROF. WILLIAM FRANCIS DOMONEY

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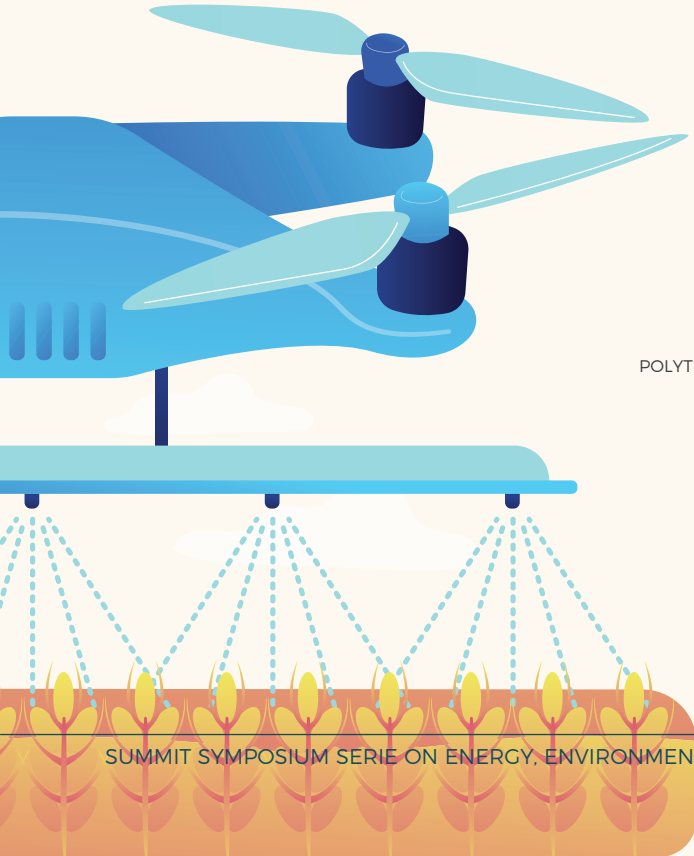

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DR. ZINE DINE ABDELMOUGHIT

MINISTRY OF EQUIPMENT AND WATER - MOROCCO

PANELS & KEYNOTE SPEAKERS

PANEL N° 3 :
AFRICAN LEADERSHIP IN ICT SKILLS FOR DIGITAL TECHNOLOGY AND CAPACITY ADVANCEMENT

MME. MBARANGA GASARABWE

HONORARY PRESIDENT OF THE CDA AND PRESIDENT OF THE SCIENTIFIC COUNCIL

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ABDELMALEK ESSAADI UNIVERSITY - MOROCCO

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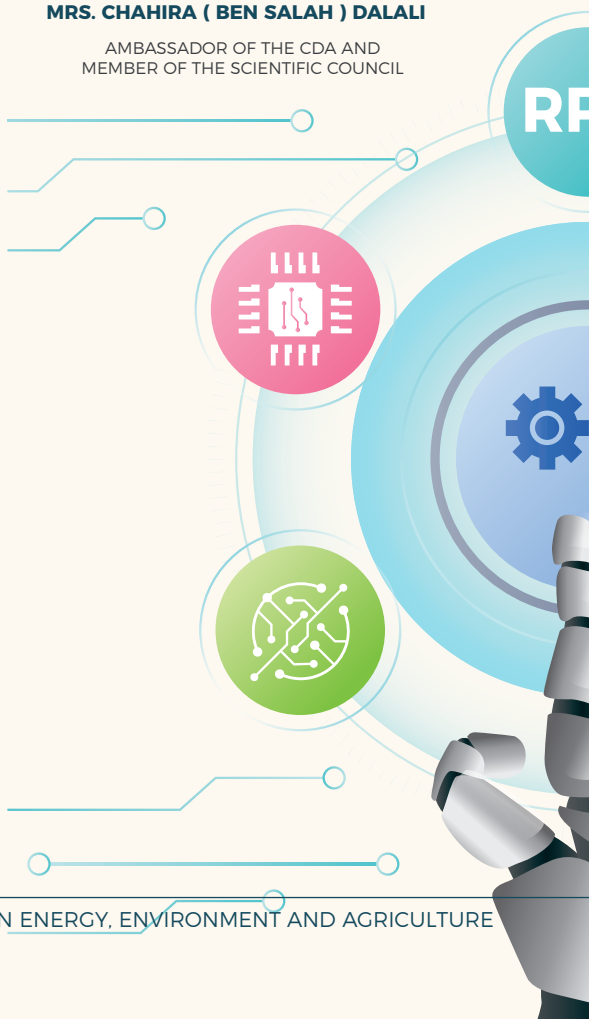

PANELS & KEYNOTE SPEAKERS

PANEL N°4 :

NAVIGATING THE NEW TECHNOLOGY CHALLENGES OF GLOBAL DIGITAL TRANSFORMATION AND INDUSTRY 4.0 FOR FUTURE GENERATIONS

DR. STEVE NOURI

GENERATIVE AI FOUNDER | ADVISOR

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PROFESSOR AT ENSAM-RABAT HONORA

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PROF. ANAS ABOU EL KALAM

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PROF. JAOUAD DABOUNOU

HASSAN FIRST UNIVERSITY - MOROCCO

DR. PLAMEN KIRADJIEV

CO-CREATING YOUR SMART FACTORY VISION BASED ON COMPOSABLE IT - GERMANY

DR. MOSTAFA AAOURDOU

INSTITUTE OF TECHNICIAN TRAINING MEKNES MOROCCO

PANELS & KEYNOTE SPEAKERS

PANEL N° 5 :

GLOBAL ARAB-AFRICA YOUNG INVESTMENTS FOR TECHNOLOGY TRANSFER AND INNOVATION GROWTH OF INDUSTRY REVOLUTION

MR. MEHDI ALLAOUI

FOUNDER & CEO @ LASTARTUPSTATION

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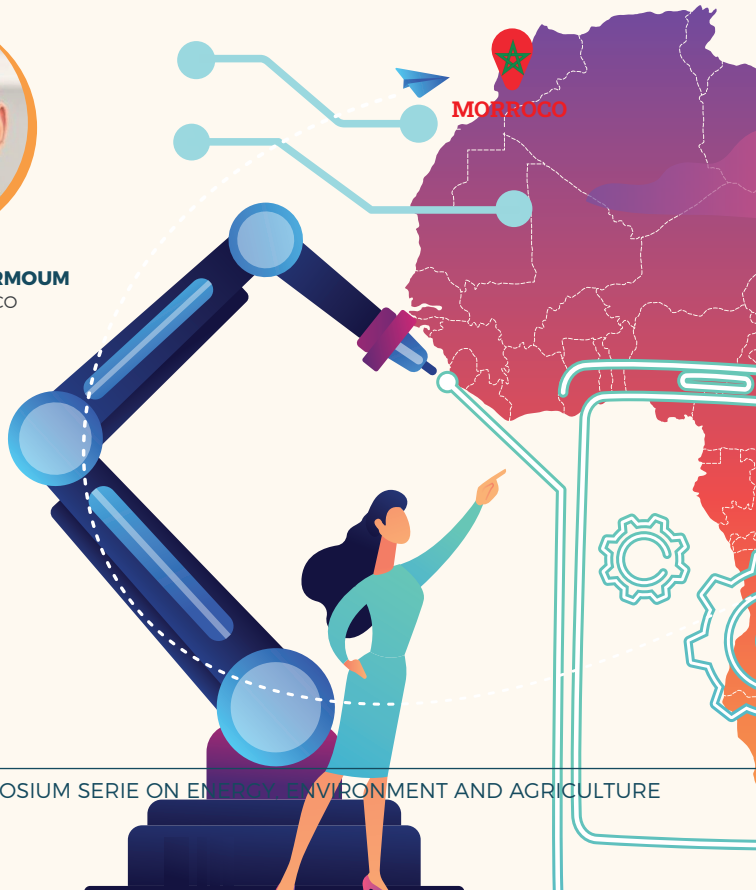

PANELS & KEYNOTE SPEAKERS

PANEL N° 6 :
PIONEERING WOMEN'S LEADERSHIP SHAPING THE FUTURE OF AI AND THE INDUSTRIAL REVOLUTION

ILHAM BERRADA

DIRECTOR OF THE NATIONAL SCHOOL OF COMPUTER SCIENCE AND SYSTEMS ANALYSIS (ENSIAS)

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PROF. HIBA ASRI

FACULTY OF SEMLALIA CADDY AYAD UNIVERSITY

DR. AÏCHA BOUFAHIM

EXPERT IN BIORESONANCE, POSTUROLOGY AND NATUROPATHY (NUTRITION PERFORMANCE)

DR. EL ALAMI EL FILALI ASMA

CLIMATE CHANGE AND BUILDING RESILIENCE IN THE DARAA-TAFILALET RE

DR. SOUMAY EL MAMOUNE

PROFESSOR & MANAGER AT EMSI-MARRAKECH - MOROCCO

DR. KHADIJA SABRI

EXPERT IN BLOCK CHAINE AND IA - PORTUGAL

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TRACK :ARGICULTURE 4.0

PARALLEL SESSION 1:

16h00 To 15h30 Room 1		16-11-2023
	Corresponding Author	**TITLE**
1	Abdelkrim El Assfouri	A new mycorrhizal association of Quercus suber (Morocco): LactariusglaucescensCrossl., 1900.
2	Hind Elaidi	A Review of the Endemic Plants of Asteraceae family in Morocco
3	Kamal Addou	A web3 model boosted by IoT and machine learning to bring transparency and sustainability to the food supply chain
4	Ben Salem Abdelkrim	Addressing Climate Change and Building Resilience in the Daraa-Tafilalet Region
5	El Balbali Hiba	AI-Driven Big Data Quality Improvement for Efficient Threat Detection in Agricultural IoT Systems
6	GannouniAsmae	An Overview of Simulation-based Multi-Objective Evolutionary Algorithms
7	Moudni Yousra	Analysis of the variables affecting the adoption of AI and Big Data tools among Moroccan agricultural and chemical fertilizer companies firms: Exploratory study.
8	Ait Ben Mouh Lhoussaine	ANT TRAJECTORY PLANNING WITH Multi-Agents Collaboration and Computer Vision
9	Anouar El Mourabit	Development and Application of Electronic Differential Systems (EDS) for Enhanced Agricultural Machinery Performance
10	YazamiZtait Mohammed	Support for geographic information systems and fieldwork to monitor the dynamics of traditional and modern farming in the middle Sebou downstream Fez â€“ Morocco
102	Sellal Zineb	Effect of the combined treatment of endomycorrhizal inoculum and Trichoderma harzianum on the growth of argan plants

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PARALLEL SESSION 2: **TRACK :ARGICULTURE 4.0**

16h00 To 15h30 Room 2		16-11-2023
	Corresponding Author	**TITLE**
11	El Rhoch Mohamed	Trichoderma use as seed treatment for promoting the growth of young argan seedlings
12	Maazouzi Soukaina	Endomycorrhizal Status of Argan Trees Implanted in Taounate Region, Morocco
13	Akram Elidrissi	Eucalyptus trees discrimination based on their bark images using supervised machine learning
14	Challi Dounia	Floristic diversity of the wetland, Sidi BOUGHABA Biological Reserve, Kénitra, Morocc
15	GouizaNissrine	IoT in smart farming: A Review
16	MssassiSouhail	Leveraging Blockchain for Enhanced Traceability and Transparency in Sustainable Development
17	Yazidi Imane	Optimization of functional carbon material production from Argan Nut Shell using Hydrothermal Carbonization technique
18	Elhachoumi Mohammed	Study of groundwater and soil quality in the Cherrat town-Morocco
19	El Asnaoui Khalid	Systematic Mapping Study on the Use of Deep Learning, Image Processing, and IoT in Precision Agriculture
20	Fassar Mohammed	VASCULAR PLANTS COLONIZATION OF THE HISTORICAL OLD MEDINA OF SAFI, MOROCCO
21	Bouhssini Ahmed	A checklist of the bryophytes of the Sidi Boughaba Wetland (Kénitra, Morocco)

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TRACK :INDUSTRY 4.0

PARALLEL SESSION 3:

16h00 To 15h30 Room 3		16-11-2023
	Corresponding Author	**TITLE**
22	Gadi Mohamed Amine	An Overview of some Advanced AI Algorithms in Embedded Automotive Systems
23	Elasri Chaimae	Applying Graph Theory to Enhance Software Testing in Medical Applications: A comparative study
24	Benriyene Salwa	Artificial Intelligence and Employability: a literature review of Engineer's Competencies
25	Ait Mellal Ismail	Artificial intelligence for Fault Diagnosis of Induction Motors in Manufacturing (Monitoring 4.0)
26	El Hassani Manal	Beyond Traditional Marketing: Holistic Marketing as the Key to Success in the Era of the 4th Industrial Revolution and Post-Covid
27	BelhajSoulamiNaila	Charting the Smart Tourism landscape : A Comprehensive Framework for Revealing the impact of Destination smartness on Tourism Experiences and Perceived Value
28	NouhasHasnae	Cloud and Edge Computing Architectures: A Survey
29	MajdoubiNouhayla	Collaborative Games for Individuals with Autism Spectrum Disorder
30	Zineb Machhour	Comparative Study between DTC and FOC Control Strategies Applied to the BLDC Motor: A Review
31	Et-Touri Abdelhak	Comparison of Feature Selection Methods for Breast Cancer Prediction
32	Raffak Hicham	Agile Framework That Integrates Continuous Risk Management for The Implementation of BPR

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PARALLEL SESSION 4: **TRACK :INDUSTRY 4.0**

18h00 To 19h30 Room 1		16-11-2023
	Corresponding Author	**TITLE**
33	ElguerraouiElmehdi	Crafting OWL Ontologies from MongoDB: A Formal Concept Analysis (FCA) Approach
34	Nejjar Chaymae	Credit risk management in microfinance: Application of non-repayment prediction models using Python.
35	Benelmostafa Badr-Eddine	Detecting Broken Glass Insulators for Automated UAV Power Line Inspection Based on an Improved YOLOv8 Model
36	Belahyane Imane	Document Information Retrieval: State of the Art
37	Maataoui Salma	Elevating Manufacturing Excellence: A Data-Driven Approach to Optimize Overall Equipment Effectiveness (OEE) for a Single Machine
38	Ahouar Samira	Enhancing Technology Transfer in Morocco's Industry 4.0 through Digital Skill Development: Literature Review
39	Lyarfi Hanane	ERP system Recommendations for critical decisions selection
40	ElmisaouiSafae	High-Performance Computing to Accelerate Large-Scale Computational Fluid Dynamics Simulations: A Comprehensive Survey
41	Aziz Alaoui Asma	How Artificial intelligence combined with Blockchain Technology could accelerate impact investing.
42	RigalmaBenachir	Improving Healthcare Services Using IoT in Collaboration with Cloud Computing and Machine Learning Algorithms

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TRACK :INDUSTRY 4.0

PARALLEL SESSION 5:

18h00 To 19h30 Room 2		16-11-2023
	Corresponding Author	**TITLE**
43	Benabderrahmane Jawad	Improving Machine Learning Performance for Diabetes Prediction
44	Jaouar Maria	Incorporating Computer Vision and Machine Learning for Lane and Curve Detection in Vehicle Mobility
45	Ait Haddou Mouloud Wafae	Influencers, these new digital muses who transform the modes of consumption and industries!
46	Afouzar Sara	LOCAL THERMAL FLASH METHOD FOR DEFECT DETECTION IN MATERIALS
47	Niyaoui Othmane	Malicious URL detection using Transformers' NLP models and machine learning
48	Jalil Fadwa	Morocco's agrifood sector Towards Industry 4.0 Skills and Challenges
49	Jghamou Afaf	Multi-Criteria model and digital technology enablers for Crowd Selection in the last mile delivery
50	Sara El Khabbazi	Multi-modal Emotional Recognition System for Childrwn with Autism Spectrum Disorder
51	Boufous Samia	Possible impacts of artificial intelligence (AI) on the performance of the journalism industry (Case of Morocco)
52	Maataoui Salma	Prognosticating Cutting Machine Reliability: A Data-Driven Predictive Maintenance Case Report
53	Abou Elkalam Anas	Wood surface defects detection based on AI algorithm Yolov7

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PARALLEL SESSION 6: **TRACK :INDUSTRY 4.0**

18h00 To 19h30 Room 3		16-11-2023
	Corresponding Author	**TITLE**
54	Mahfoud Hassana	Real-time Predictive Maintenance-based Process Parameters: Towards an Industrial Sustainability Improvement
55	BergorBeguiel Brahim	Recent Developments in Robotic Grasping Detection
56	El HadbiAtmane	Review Study on the Adaptive and Personalized Intelligent Tutoring Systems in E-learning
57	Sadouq Zouhair Abdelghani	Security Issues in Vehicular Ad-Hoc Networks : A Comprehensive Analysis of VANET Vulnerabilities
58	RachikOumaima	Sélection et amélioration génétique du chanvre industriel (Cannabis sativa L.) au Maroc
59	Jebbar Hayat	Smart Cities: Literature review and bibliometric analysis
60	Outalb Khadija	Study of the influence of carob sugar extraction parameters by ultrasonic assistance
61	Adil El Fakir	Sustainability and WEB-BASED Corporate Social Responsibility Disclosure: Could Machine learning Models explain the impact on Bank's Cash Holding (An empirical analysis on top world Islamic and non-Islamic banks)
62	Zatri Anass	Time Series Analysis of Netflix's stock closing prices: From Data Processing to Forecasting
63	Bouh Youssef	TinyML on Arduino Nano 33 BLE
64	Taraa Chaymae	Use of industry 4.0 tools in WIP (Work In Progress) stock management: A Case Study of the Automotive Industry
65	Tamouh Abdelhamid	A framework based SVM for banckrupcy prediction

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TRACK :ENVIROMNENT

PARALLEL SESSION 7:

09h00 To 10h30 Room 1		17-11-2023
	Corresponding Author	**TITLE**
66	Ed-DaoudyLhoussaine	A GIS-based modified PAP/RAC model and Caesium-137 approach for water erosion assessment in the Raouzcatchment, Morocco
67	Sadki Nabil	Adaptation of Water Resources Management to Climate Change in the Loukkos, Tangier and Coastal Mediterranean basins - MOROCCO
68	Saoiabi Fadwa	Agile Software Engineering in Medical Environments: Challenges and Opportunities
69	Falouss Safae	Analyse de la variation spatio-temporelle des paramètres océanographiques en Atlantique Nord marocain
70	Saadi Sofia	Artificial Intelligence and Green Marketing: What link?
71	Bouhadi Amine	Assessing coastal changes and shallow water environments via GIS and remote sensing
72	Bougrine Omar	Characterization and Prospects for the Valorization of Drinking Water Treatment Sludge.
73	Moumen Nessrine	Contextualizing the Smart City Concept for the African Urban Landscape: Defining indicators for Urban Performance
74	Korodowoullyace	COTTONIZED SISAL FIBERS: A MORE ECONOMIC AND SUSTAINABLE ALTERNATIVE TO NATURAL COTTON, FOR ABSORBENT TEXTILE AND HYGIENIC PRODUCTS, IN MOROCCO
75	Sadouq Zouhair Abdelghani	Driving Data : Exploring Data-Driven Processing in Big Data Environments for VANET
76	Ben Moussa Sabira	The impact of climate change on dam filling rates in northern Morocco

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PARALLEL SESSION 8: **TRACK :ENVIROMNENT**

09h00 To 10h30 Room 2		17-11-2023
	Corresponding Author	**TITLE**
77	Sayerh Fatimazahra	Hospital discharges: special emphasis on characterization, impact, and treatment of pollutants and antibiotic resistance
78	Menaouar Noureddine	Integrated Natural Resources Managment in a Context of Increasing Demand for Building Materials in the Prefecture of Tangier-Assilah(Northwestern Morocco)
79	Elallati Samia	L'évolution de la cote de KariatArekmane (province de Nador-Maroc) : étude diachronique et évaluations des solutions proposées
80	Rziki Mohammed Hatim	Le rôle du Big Data et de l'intelligence artificielle dans la durabilité et la biodiversité : étude de cas dans les entreprises interconnectées
81	Damnati Brahim	LITTORAL MORPHO-DYNAMIC EVOLUTION: THE CASE OF AL HOCEIMA (MEDITERRANENA SEA, NORTH MOROCCO)
82	El Jaddaoui Islam	Microbial characterization of biofilm of plumbing systems in apartment-type residential buildings
83	Jyia Hamza	Modélisation et optimisation de la déphénolisation des eaux usées des moulins à huile par un procédé combinant la coagulation et l'oxydation avancée à l'aide d'un coagulant à base de chaux activée et de peroxyde d'hydrogène
84	Saad Bendaoud	Mountains and clouds motion similarity and their dependencies on the observer's reference
85	Mohsine Said	Resolving the quadratic assignment problem with the Elephant herding optimization
86	Bouhadi Amine	Terrain displacement assessment in the coastal area of Agadir (Western Morocco) Using PSInSAR Technology
87	El Asnaoui Khalid	The Use of Deep Learning, Image Processing, and High-Performance Computing: A Systematic Mapping Study
88	Rabichi Imad	Utilizing Biochar Derived from Olive Mill Waste for Eco-friendly Polyphenol Removal from Olive Mill Wastewater
89	Ahsain Sara	Green Intelligence: Leveraging AI for Environmental Sustainability (E-Commerce Use Case)

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TRACK :ENERGY

PARALLEL SESSION 9:

09h00 To 10h30 Room 3		17-11-2023
	Corresponding Author	**TITLE**
90	Azizi Ikram	An overview on PV energy system and MPPT control strategies
91	Safa Nadine	Efficiency of Wind Turbines in Energy Generation thanks to an Intelligent System
92	Brioual Bilal	Electrochromic Efficiency Improvement of Nickel Oxide Thin Films by Hafnium Doping
93	HaourajiCharifa	Evolution of LPG Demand Using Machine Learning Planning Models: An Application in the case of Morocco
94	Benelmostafa Badr-Eddine	Exploring the Generalization Aptitude of recent Object Detection Models in Identifying Faulty Glass Insulators for UAV power line inspection: A Case Study in Morocco
95	Abouelouafa Safae	GNSS Satellite Occultation Detection Applied to Radio Occultation
96	Benaddi El Houssaine	High efficiency removal of methylene blue in aqueous solution, using H3PO4- activated carbon from biomass of FCP: Characterization, kinetics, isotherm, thermodynamics and regeneration
97	Ziraoui Jihane	Low-Cost Panels from Natural Fibers for Improved Buildings Thermal Performance: Inferential Review
98	Bahoum Abderrahim	Numerical Study of MHD Natural Convection in Partially Heated Cubical Cavity Filled with Hybrid Nanofluid
99	Khayat Mohammed	Review on the Reliability Analysis of Isolated Microgrids
100	Dakir Oumaima	Review paper on integrated circular economy in the construction sector
101	Essardi Hafida	Secured Blockchain based Energy trading system for Smart Grid Network
102	Aitelhaj Rita	Exploring the Generalization Aptitude of recent Object Detection Models in Identifying Faulty Glass Insulators for UAV power line inspection: A Case Study in Morocco

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