

تحت الرعاية السامية لصاحب الجلالة الملك محمد السادس

Under the High Patronage of His Majesty King Mohammed VI



UNIVERSITÉ MOHAMMED VI
DES SCIENCES ET DE LA SANTÉ
UM6SS - CASABLANCA



HÔPITAL UNIVERSITAIRE
INTERNATIONAL CHEIKH KHALIFA
HUICK



HÔPITAL UNIVERSITAIRE
INTERNATIONAL MOHAMMED VI
HUIMG

Mohammed VI University of Sciences and Health organizes in partnership with the Moroccan Society of Digital Health

The 5th Edition of the International Conference AI2SD'2023

THE GLOBAL SUMMIT ON DIGITAL HEALTH

- Medical Physics
- The Metaverse in Healthcare
- Telemedicine
- Pharmaceutical and Medical Industry
- Shared Patient Health Records



Springer



dblp



24-26 May 2023



Mohammed VI University of Sciences and Health, Casablanca



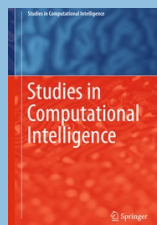
<https://dh.ai2sd-gss.com/>



IMPORTANT DATES

10/05/2023 : SUBMISSION DEADLINE
14/05/2023 : ACCEPTANCE NOTIFICATION
18/05/2023 : CAMERA READY SUBMISSION
20/05/2023 : EARLY-BIRD REGISTRATION

CONFIRMED PROCEEDINGS BOOKS





WELCOME TO AI2SD'2023

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Abdelmalek Essaadi University
Morocco



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General Secretary of Moroccan
Society of Digital Health
Morocco



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Morocco



Prof. Asma CHAIK

Mohammed V University
ENSAM-Rabat
Morocco

The Global Summit Symposium on Digital Health and Telemedicine: AI2SD Symposia Serie N° 1 welcomes the highest quality submissions that contribute to the full range of Digital health and Telemedicine that includes digital care programs, technologies with health, healthcare, living, and society to enhance the efficiency of healthcare delivery and to make medicine more personalized and precise. These Digital Health Meetings and Telemedicine Symposium will be focusing on the theme "Impact of Digital Health on Healthcare System". The aim is to engage, empower, evolve and explore knowledge among both academicians and industry, through Machine Learning algorithm Artificial Intelligence research for Healthcare systems, from modelling, mathematical and computational analyses in a computational intelligence way.

The Global Summit Symposium on Digital Health and Telemedicine: AI2SD Symposia Serie N° 1 will provide an excellent international forum for sharing knowledge and results in theory, methodology and applications of Digital Health and Telemedicine. The Conference looks for significant contributions to all major fields of Healthcare and medicine. 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 field. Authors are solicited to contribute to the conference by submitting articles that illustrate research results, projects, surveying works and industrial experiences that describe significant advances in this areas.

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Khalifa Ibn Al Nahyan
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Chief of Health Department of DMK
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Director of the Gynecology Clinic with
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European Competence Center for
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Strategists - MicroSoft
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Skills Network-DMK
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Vice President of Sfax University
Tunisia



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Chief Medical Metaverse Officer
Honorary Professor of Practice Royal
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United Kingdom



Pr. Zuherman Rustam
University of Indonesia
Indonesia

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President of Abdelmalek Essaadi
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President of the Council of the
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Morocco



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Mayor of Casablanca
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Coordinator of the network of
medical, pharmaceutical and dental
faculties.
President of Sultan Moulay Slimane
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Morocco



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President of Moroccan
Entrepreneurs worldwide at
CGEM
Morocco



Mr. Khalid SAIR
General Director of Sheikh Khalifa
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Professor at ENSAM-Rabat
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CHU HASSAN II
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Morocco



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Deputy Director of National Social
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Dean of Faculty of Medicine and
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KEYNOTE SPEAKERS



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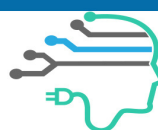
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E-HEALTH
INNOVATION
CENTRE



MOHAMMED VI UNIVERSITY
OF SCIENCES AND HEALTH
CASABLANCA



Société Marocaine de
SANTÉ DIGITALE



AI2SD'2023

The 5th Edition of AI2SD

CleS organizes in partnership
with the SMSD and the
UM6SS a panel entitled:

Digital Transformation for a Reform of our Health Systems

May 24, 2023 - 10:30 am

CHAIRMAN



Pr. Anass DOUKKALI
President of e-Health
Innovation Centre (CleS)
Morocco

MODERATORS



Pr. Wajih RHALEM
President of Moroccan
Society of Digital Health
Morocco



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CEO TalentAccess
Morocco

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Director of National
School of Public Health
(ENSP)
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United States of America

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الأكاديمية الوطنية العليا للتكوين والبحث
HESR 142201 / 2010-4 / MESSUR A / 142201 / 2010-4
École Nationale Supérieure d'Arts et Métiers de Rabat



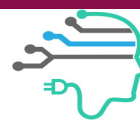
Electronic Systems, Sensors and Nanobiotechnologies



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OF SCIENCES AND HEALTH
CASABLANCA



Société Marocaine de
SANTÉ DIGITALE



AI2SD'2023

The 5th Edition of AI2SD

E2SN-ENSAM Rabat and the
Institute of Analytical Sciences
organize in partnership with the
SMSD and the UM6SS a Panel entitled:
**AI and Digital Technology for
a better Healthcare: Oncology,
Neurodegenerative and
Cerebral Stroke**

May 24, 2023 - 2:30 pm

PANEL CHAIRS



Pr. Larbi BELARBI
Professor at ENSAM RABAT
Morocco



Pr. A. ERRACHID EL SALHI
Full Professor Class
Exceptional Class, University
Claude Bernard Lyon, France

MODERATOR



Pr. Mostafa EZZIYANI
Abdelmalek Essaadi University
Morocco

PANEL LIST



Pr. A. ERRACHID EL SALHI
Full Professor Class
Exceptional Class, University
Claude Bernard Lyon, France
Bio-Technology
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Professor Doctor at
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Pr. Tae-Hee CHO
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Pr. Dr. med. Dr. h.c. Jalid SEHOULI
Director of the Gynecology Clinic with
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Head of the Center for Gynecological
Tumors and the European Competence
Center for Ovarian Cancer (EKZE)
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Health Department of DMK
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Specialist in medical oncology
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The 5th Edition of AI2SD

Moroccan Cancer Society organizes in partnership with the SMSD and the UM6SS a panel entitled:

AI in Oncology and Radiotherapy



May 25, 2023

MODERATORS



Pr. Abdellatif BENIDER
Rabat
Morocco



Pr. Mehdi KARKOURI
Casablanca
Morocco



Pr. Nawal BOUKNANI
Casablanca
Morocco



Pr. Basma EL KHANNOUSSI
Casablanca
Morocco



Pr. Issam LALYA
Casablanca
Morocco



Pr. Hassan ERRIHANI
Rabat
Morocco

AI in diagnosis

8:30 - 9:50

PANEL LIST



Dr. Karima BENDAHHOU
Casablanca
Morocco



Pr. Hicham EL ATTAR
ElJadida
Morocco



Pr. Tariq DAOUDA
Benguerir
Morocco

AI and its application in cancer treatment

9:50 - 11:00

PANEL LIST



Pr. Saber BOUTAYEB
Rabat
Morocco



Pr. Zineb DAHBI
Casablanca
Morocco

AI and predictive and prognostic factors

11:40 - 12:40

PANEL LIST



Pr. Zineb BENBRAHIM
Fes
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Pr. Karim OULDIM
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The 5th Edition of AI2SD

IDC Morocco organizes in partnership with the SMSD and the UM6SS a panel of Metaverse entitled:
Augmented & Virtual Reality in Healthcare

May 25, 2023 - 02:30 pm

PANEL CHAIRS



Pr. Mohamed ESSAIDI
Director of IDC
Morocco



Pr. Najib Al IDRISI
Mohammed VI University of
Sciences and Health
General Secretary of Moroccan
Society of Digital Health
Morocco

MODERATORS



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Pr. Zeyneb BELGANICHE
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PANEL LIST



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Honorary Professor of
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Metaverse Officer
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Mr. Sirko PELZL
Chair of The HoloMedicine
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Reality Virtual Reality Expert
United States of America



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Strategists - MicroSoft
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Executive Board of the IEEE Signal
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Dr. Rajae GHANIMI
Specialist in occupational medicine.
Member of the C3M network
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The 5th Edition of AI2SD

Institut Pasteur Maroc organizes in partnership with the SMSD and the UM6SS a panel entitled: Bioinformatics Tools and Methods at Service of Biotechnologies

May 26, 2023 - 08:30 am

PANEL CHAIRS

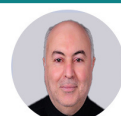


Dr. Salsabil HAMDI
Head of Environmental Health Lab
Institut Pasteur du Maroc - Casablanca
Morocco



Dr. Hichame CHAROUTE
Researcher at Institut Pasteur du
Maroc - Casablanca
Morocco

MODERATOR



Pr. Hassan GHAZAL
National Center for Scientific
Technical Research (CNST), Rabat
Telemedicine Expert - Morocco

PANEL LIST



Pr. Mohammed BEKKALI
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Spain



Pr. Wajih RHALEM
President of Moroccan
Society of Digital Health
Morocco



Dr. Abdelhamid BARAKATE
Head of Humain Genetic Lab
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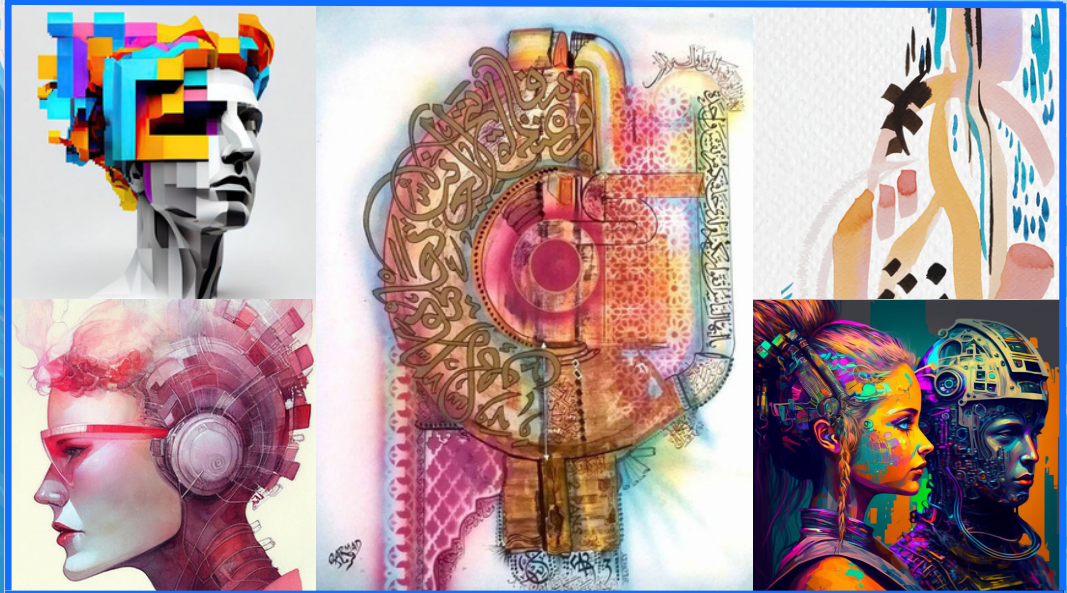
Mohammed VI University of
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ملتقى شباب جامعة المغرب

ورشة التكنولوجيا الحديثة
مع التراث المغربي لأصيل

The 5th Edition of the International Conference on Advanced Intelligent Systems for Sustainable Development (AI2SD'2023)



Organization committee

Artists



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Abdelmalek Essaadi
University
Morocco



Pr. Wajih RHALEM
President of Moroccan
Society of Digital Health
Morocco



Dr. Mohamed QARMAD



Mr. Mustapha
ABOUTARA BELRHITI

GLOBAL CONFERENCE PROGRAM

DAY 1: 24/05/2023

UM6SS	8H00 - 9H00	Welcome Desk & Registration
	11H00 - 11H30	Coffee Break
	11H30 - 13H30	Panel 1: Digital Transformation for a Reform of our Health Systems
	12H30 - 14H30	Lunch Break
	14H30 - 16H30	Panel 2: Digital Health: Neurodegenerative and Cerebral Stroke
	16H30 - 17H00	Coffee Break
	17H00 - 17H30	plenary speaker: Prof. MARC MARIE P VAN HULLE Executive Board of the IEEE Signal Processing Society, KU Leuven, Belgium
	17H30 - 19H00	Parallel Sessions PS1, PS2, PS3, PS4, PS5

GLOBAL CONFERENCE PROGRAM

DAY 2: 25/05/2023

UM6SS	8H30 - 9H50	Panel 3/ Part 1: AI in Diagnosis
	9H50 - 11H10	panel 3/ Part 2: AI and its Application in Cancer Treatment
	11H10 - 11H40	Coffee Break
	11H40 - 13H00	panel 3/ Part 3: AI and Predictive and Prognostic Factors
	13H00 - 14H30	Lunch Break
	14H30 - 17H00	Panel 4: Metaverse, Augmented & Virtual Reality in Healthcare
	17H00 - 17H30	Coffee Break
	17H30 - 19H00	Parallel Sessions PS6, PS7, PS8, PS9, PS10

GLOBAL CONFERENCE PROGRAM

DAY 3: 26/05/2023

UM6SS	8H30 - 10H30	Panel 5: Bioinformatics Tools and Methods at Service of Biotechnologies	
	10H30 - 11H00	Coffee Break	
	11H00 - 12H30	Parallel Sessions	POSTER SESSION
	12H30 - 14H30	Lunch Break	
	14H30 - 16H30	Summary Sessions	
	16H30 - 19H00	Certification and reciting the loyalty telegram	

SESSIONS PROGRAM

DIGITAL HEALTH

SESSION 1

Room 1: A01		24-05-2023
17:30 – 19:30		
17:30 – 17:45	Mohammed KALLOUB & Husam AWAD	Designing temporary arteries with special valves for patients injured in major return marches from local manufacture
17:45 – 18:00	Chaimae HILALI, Najat LAMAALMI	Anatomopathological lesions of the placenta according to the Amsterdam consensus
18:00 – 18:15	Hassan CHIDOUD, Ahmed AARAB, Amin LAGLAOUI	How certified management system overcome covid-19 economic's impact: comparative study for companies in morocco between 2020 and 2023
18:15 – 18:30	Bouchra OUARROUD, Mohammed EL MAADOUDI, Amina BARAKAT, Soufiane HASNI	Escherichia coli producing Shiga-toxins (STEC); Virulence factors, pathologies caused and foods at risk: Review
18:30 – 18:45	Youssef ER RAYS, Hamid AIT LEMQEDDEM and Mustapha EZZAHIRI	Bibliometric Analysis of global research trends on digital occupational health using Scopus database
18:45 – 19:00	Youssef ER RAYS, Hamid AIT LEMQEDDEM and Mustapha EZZAHIRI	Measuring efficiency of hospitals networks in Morocco: Data Envelopment Analysis and Malmquist Index Application
19:00 – 19:15	Khalil BOURAMTANE, Said KHARRAJA, Jamal RIFFI and Omar EL BEQQALI	Emergency Service Design and Management: Addressing Multi-Floor Layout Challenges
19:15 – 19:30	Houda HARMAK, Salaheddine REDOUANE, Hicham CHAROUTE, Ouafaa ANIQ FILALI, Abdelhamid BARAKAT and Hassan ROUBA	In-silico exploration and molecular dynamics of deleterious SNPs on the human TERF1 protein triggering male infertility

SESSIONS PROGRAM

DIGITAL HEALTH

SESSION 2

Room 2: A05 17:30 – 19:30		24-05-2023
17:30 – 17:45	Hicham HBOUB, Hicham CHAROUTE, Najat BOUCHMAA, Reda BENMRID, Rachid EL FATIMY, Naoual OUKKACHE	Development and design of new peptide inhibitors of SARS-CoV-2 through mimics of Moroccan scorpions' venoms molecules to target the virus entry into the host cells
17:45 – 18:00	Mohamed BOUKHLIF, Nassim KHARMOUM, Mohamed HANINE, Wajih RHALEM and Mostafa EZZIYANI	Exploring the Application of Classical and Intelligent Software Testing in Medicine: A Review of the Literature
18:00 – 18:15	Mohamed EL BOUKHARI, Sara RETAL, Nassim KHARMOUM, Soumia ZITI and Wajih RHALEM	An Approach for Refactoring System Healthcare using CQRS, GoF, and Natural Language Processing
18:15 – 18:30	Nora FRITET, Sara RETAL, Nassim KHARMOUM, Moulay Youssef HADI and Wajih RHALEM	The Application of the MDA Approach in Healthcare: Literature Review
18:30 – 18:45	Bouchaib BENKASSIOUI, Sara RETAL, Nassim KHARMOUM, Moulay Youssef HADI and Wajih RHALEM	Information Extraction for Biomedical Literature using Artificial Intelligence: A Comparative Study
18:45 – 19:00	Chaimae ELASRI, Nassim KHARMOUM, Fadwa SAOIABI, Soumia ZITI and Wajih RHALEM	Applying Graph Theory to Enhance Software Testing in Medical Applications: A comparative study
19:00 – 19:15	Fadwa SAOIABI, Nassim KHARMOUM, Chaimae ELASRI, Soumia ZITI and Wajih RHALEM	Agile Software Engineering in Medical Environments: Challenges and Opportunities
19:15 – 19:30	Hamza HADRI, Abderahhim FAIL and Mohamed SADIK	Ultrasound beamforming: investigating time series with sequence-to-sequence approach in deep learning

SESSIONS PROGRAM

DIGITAL HEALTH

SESSION 3

Room 3: A07		24-05-2023
17:30 – 19:30		
17:30 – 17:45	Sara FADEL, Soumaya JBARA, Nihal HABIB, Abdellah Idrissi AZAMI, Fadil BEKKALI, Hassan GHAZAL and Wajih RHALEM	Whole exome analysis of sequences from breast cancer patients
17:45 – 18:00	Oumaima MAJDOUBI, Achraf BENBA and Ahmed HAMMOUCH	Classification of Parkinson's Disease and Other Neurological Disorders Using Voice Features Extraction and Reduction Techniques
18:00 – 18:15	Sory MILLIMONO, Larbi BELLARBI, Sarah MAGHZAZ, Najib ALIDRISSI, Salsabil HAMDI, Nassim KHARMOUM, Ahmed BENAHOUE, Said JIDANE, Lahcen BELYAMANI, Hassan GHAZAL, Mostafa EZZIYANI and Wajih RHALEM	Detection of a cardiac anomaly from a PCG signal, based on the transition from discrete to continuous point clouds
18:15 – 18:30	Mohamed BAL-GHAOUI, My Hachem EL YOUSFI ALAOUI, Abdelilah JILBAB and Abdennacer BOUROUHOUE	Transfer Learning Fine-Tuning Strategies for Enhanced Ultrasound Breast Cancer Classification
18:30 – 18:45	Sory MILLIMONO, Larbi BELLARBI, Sarah MAGHZAZ, Najib ALIDRISSI, Salsabil HAMDI, Nassim KHARMOUM, Ahmed BENAHOUE, Said JIDANE, Lahcen BELYAMANI, Hassan GHAZAL, Mostafa EZZIYANI and Wajih RHALEM	VGG-AM: Towards a new Hybrid Medical Imaging Analysis based on VGG classification Model and deep DATA preparation
18:45 – 19:00	Sory MILLIMONO, Larbi BELLARBI, Sarah MAGHZAZ, Najib ALIDRISSI, Salsabil HAMDI, Nassim KHARMOUM, Ahmed BENAHOUE, Said JIDANE, Lahcen BELYAMANI, Hassan GHAZAL, Mostafa EZZIYANI and Wajih RHALEM	Deep Medical Imaging, Analysis the Breast Cancer Mammography
19:00 – 19:15	Maryem ICHOU, Mounia ABIK and Othmane NAGGAR	VAE-AL-UNet: Efficient lung Segmentation in Chest X-Ray Images using variational Autoencoder and Active Learning
19:15 – 19:30	Hassan CHIDOUD, Ahmed AARAB and Amin LAGLAOUI	How Certified Management System And Information System Overcome Covid-19 Economics' Impacts: Comparative Study For Moroccan Companies Between 2020 And 2023

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DIGITAL HEALTH

SESSION 4

Room 4: A08		24-05-2023
17:30 – 19:30		
17:30 – 17:45	Hind HABOUBI, Lamia HAMMADI, Said JIDANE, Abdessamad EL BALLOUTI, Lahcen BELYAMANI	Hospital Supply chain 4.0 performance: A Systematic literature review
17:45 – 18:00	EDDER Aymane, JIOUDI Bassma	A new approach for skin lesion classification of dermoscopic images based on deep learning, and IoT system
18:00 – 18:15	Mohamed EL Mehdi AIT BOURKHA, Anas HATIM, Dounia NASIR and Said ELBEID	Gabor Wavelet Scattering Network and KNN-based Arrhythmia Classification Model
18:15 – 18:30	Lhoucine BEN YOUSSEF, Abdelmajid BYBI, Hilal DRISSI and El Ayachi CHATER	A survey on the control and monitoring of X-ray dosimetry in Moroccan hospitals
18:30 – 18:45	Safae TALAA, Abdelilah JILBAB and My Hachem EL YOUSFI ALAOUI	Gait Analysis Using Machine Learning: A Comparison of MediaPipe and VICON
18:45 – 19:00	ROUIDI Mohammed, Abdelmajid ELOUADI, Amine HAMDOUNE and Adam CHATI	Acceptability of telemedicine technology: perspectives of Moroccan health professionals in rural areas
19:00 – 19:15	Thierry Rock JOSSOU, Abdelali LASFAR, Roland CODJO HOUSSOUVO, Daton MEDENOU and Aziz ET-TAHIR	LSTM as ElectroHysteroGram Signal Forecasting Method
19:15 – 19:30	Hind AIT BELCAID, Azeddine DIFFAA, Hajar SEBBAN, Mohammed Amine BELKHOUDA, Roquia ASSDA and Azeddine SEDKI	Attention-deficit associated with illicit substance use disorders in adolescents: case-control study

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SESSION 5

Room 5: A09 17:30 – 19:30		24-05-2023
17:30 – 17:45	Hind AIT BELCAID, Hajar SEBBAN, Azeddine DIFFAA, Mohammed Amine BELKHOUDA, Roquia ASSDA and Azeddine SEDKI	The neurocognitive effects of Maajoune on young people
17:45 – 18:00	Hassane EL BEKKOURI, El Mehdi AL IBRAHMI, Mohamed EL-ASERY, Adil BARDANE, Zouhair SADOUNE, Abdessamad DIDI and El Mahjoub CHAKIR	A new study of Bragg curve of the ^{12}C ion at energies ranging 200-400 MeV/u with the contribution of secondary fragments in hadrontherapy using the PHITS Monte Carlo code
18:00 – 18:15	Amina SAMIH	Health Recommender Systems
18:15 – 18:30	Sara RAMLI and My Saddik KADIRI	Numerical Simulation and Modeling of Pharmaceutical Powder Compression for Optimizing Tablet Manufacturing
18:30 – 18:45	Achraf ELOUERGHY, Zakaryae KHOMSI and Larbi BELLARBI	A review of recent medical imaging modalities for breast cancer detection: active and passive method
18:45 – 19:00	Anissa REGRAGUI, Fatima Zahrae BOUHOUCHE, Wajih RHALEM and Najib AL IDRISSI	Interest of digital smile design in patient satisfaction in comparison with conventional dental treatments: systematic review
19:00 – 19:15	Rihab EL SABROUTY, Maï ABDOU SALIFOU KARIMOUNE and Abdelmajid ELOUADI	Care pathway model for patients with localized lung adenocarcinoma
19:15 – 19:30	Abdelmalek MAKHIR, Larbi BELARBI and Moulay Hachem EL YOUSFI ALAOU	Abnormal heartbeat classification using deep neural network

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DIGITAL HEALTH

SESSION 6

Room 1: A01 17:30 – 19:30		25-05-2023
17:30 – 17:45	Hanâ BABA, Meryem BOUQDAYR, Mohcine ELMESSAOUDI-IDRISSI, Mohamed Reda JOUIMYI and Anass KETTANI	A simple overview for proteins molecular dynamics simulations using GROMACS
17:45 – 18:00	Khaoula HABIBI, Abdelmajid BYBI and Hilal Drissi LAHSSINI	Implementation of a health surveillance system for newborns at home
18:00 – 18:15	Lahcen Zougagh	A New Approach for Epileptic Seizure Detection from EEG and ECG Signals Using Wavelet Decomposition
18:15 – 18:30	Hind AIT BELCAID, Azeddine DIFFAA, Hajar SEBBAN, Fayçal ABBAD, Souad SELLAMI, Hanane RAISS and Azeddine SEDKI	The neurotoxic and neurobehavioral effects of "Tartrazine E102" alone and in combination with lead nitrate on the Sprague Dawley rat
18:30 – 18:45	El Mostafa BOUATTANE and Moulay AKHLOUFI	From Crisis to Innovation: Reshaping Mental Health Services through Telepsychiatry and AI Predictive Modeling
18:45 – 19:00	Najat LECHHAB, Wajih RHALEM, El Mehdi JAAFARI, Fadil BAKKALI, Anissa REGRAGUI, Salsabil HAMDY, Hassan GHAZAL, Lahcen BELYAMANI, Najib AL IDRISSI and Mohamed ZERIAB ES-SADEK	Telemedicine and blockchain in the health sector: Development of a tele-radiology program
19:00 – 19:15	Saadia AZEROUAL, Fatima-Ezzahraa BEN-BOUAZZA and Rajaa SEBIHI	Exploring Radiomic Feature Class Contributions in Recurrence Prediction of Breast Cancer: A Comparative Analysis of Multiple Machine Learning Models
19:15 – 19:30	Hayat RESKAL, Abdelmajid BYBI, Anouar BOUJENOU and Lahoucine EL MAIMOUNI	Numerical Study and Simulation of the Crosstalk Effects on the Electroacoustic Performance of Ultrasonic Transducer Arrays Utilized in Medical Imaging Applications

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SESSION 7

Room 2: A05		25-05-2023
17:30 – 19:30		
17:30 – 17:45	Malika ALLALI, M.Ali ELOUARID, M.Amine IKHANJAL, Khaoula ERRAFI, Hicham ELFAZAZI, Hichame CHAROUTE, Wajih RHALEM, Lahcen WAKRIM, Hassan GHAZAL, Youssef BAKRI and Salsabil HAMD	Analysis of Human Papillomavirus Type 31 in Morocco: A study of 242 Viral Genomes.
17:45 – 18:00	Maryame BOUDJAJ, Fadil BAKKALI, Najib ALIDRISSI, Fayssal JHILAL and Abdessalam BOUGDIRA	Adaptive Reinforcement Learning for Medical Robotics and Telemedicine: A Literature Review
18:00 – 18:15	Hajar LHAJJAM, Hamid AZZOUZI, Naoufal SEFIANI, Hassan ELMRABET and Nahla IHENDYANE	The Implementation of the Quality Approach in Medical Biology Laboratories
18:15 – 18:30	Zakaryae KHOMSI, Achraf ELOUERGHI and Larbi BELLARBI	Design Methodology of a Wearable Thermographic System for IoT Application in Early Breast Cancer Detection
18:30 – 18:45	Aicha ZIZOUNE, Asmae ZIZOUNE, Roba HAMDAOUI, Karima SALAHEDDINE, Anouar RIADSOLH and Soumia ZITI	Real-Time Implementation of an AI-Based Virtual Sign Language Recognition and Interpretation System
18:45 – 19:00	Zainab EL OUAFLI, Wajih RHALEM, Jabran LMHANI, Nihal HABIB, Najib AL IDRISSI, Chakib NEJJARI, Lahcen BELYAMANI and Hassan GHAZAL	Exploring the Chemical Diversity of Moroccan Medicinal Plants through MoroChem: A Valuable Resource for Drug Discovery and Traditional Medicine
19:00 – 19:15	Abdeljalil EL HADIRI, Lhoussain BAHATTI, Abdelmounime EL MAGRI and Rachid LAJOUAD	Profound Sedation Detection Based On Brain Waves Analysis
19:15 – 19:30	Sara LASRI and El Habib NFAOUI	Identifying Suicidal feeling and Psychological Mental health Issues from Social Media using Deep learning models

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SESSION 8

Room 3: A07		25-05-2023
17:30 – 19:30		
17:30 – 17:45	Mohamed BOURTI and Abdelaziz BELAGUID	The Effect of Endotracheal Tube Resistance and Respiratory Frequency on PCO ₂ Management During Pressure-Controlled Ventilation: A Modelling Study.
17:45 – 18:00	Zakaria SAID, Fatima Ezzahraa BEN BOUAZZA, Oumaima MANCHADI and Mounir MEKKOUR	SurvivalNets : Brain tumor patients survival rates prediction through MRI segmentation models
18:00 – 18:15	Zakia BOUDAR, Sara EL JANAHI, Sofia SEHLI, Wajih RHALEM, Salsabil HAMD, Imane ALLALI, Abderrazak RFAKI, Najib AL IDRISSE, Nouzha DINI and Hassan GHAZAL	Microbiome Composition of Preterm Infants with Necrotizing Enterocolitis
18:15 – 18:30	Oumaima MANCHADI, Fatima-Ezzahraa BEN-BOUAZZA, Zineb EL OTMANI DEHBI, Zakaria SAID and Bassma JIOUDI	Towards Industry 4.0: An IoT-Enabled Data-Driven Architecture for Predictive Maintenance in Pharmaceutical manufacturing
18:30 – 18:45	Zahra MOHAMMAD ALIPOOR and Hosna SALMANI	The necessity of using the registry systems for Primary Ovarian Insufficiency
18:45 – 19:00	Zineb EL OTMANI DEHBI, Fatima-Ezzahraa BEN-BOUAZZA, Oumaima MANCHADI, Mohamed KARRA, Wajih RHALEM, Najib ALIDRISSI, Chakib NEJJARI and Hassan GHAZAL	Architecture of a Tele Alert System for elderly individuals: TeleGuard Belt
19:00 – 19:15	Sofia SEHLI, Wajih RHALEM, Zineb EL KETTANI, Salsabil HAMD, Mohamed MERZOUKI, Najib AL IDRISSE, Chakib NEJJARI and Hassan GHAZAL	The Impact of Gut Microbiota on Gender-Specific Differences in COVID-19 Patients
19:15 – 19:30	Mohamed ZAKI, Oussama ELALLAM, Oussama JAMI, Douae EL GHOUALI, Fayssal JHILAL, Najib AL IDRISSE, Hassan GHAZAL, Adnane BENMOUSSA and Fadil BAKKALI	Advancing Tumor Cell Classification and Segmentation in Ki-67 Images: A Systematic Review of Deep Learning Approaches

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SESSION 9

Room 4: A08 17:30 – 19:30		25-05-2023
17:30 – 17:45	Hayat SEDRATI, Hassan GHAZAL and Abdellah YOUSFI	Effectiveness of the DtC algorithm in Reducing EEG dataset dimensionality for AUD diagnosis.
17:45 – 18:00	Douae EL GHOUALI, Stacy PIRRO, Sofia SEHLI, Mohamed ZAKI, Fadil BAKKALI, Najib AL IDRISSE, Wajih RHALEM, Chakib NEJJARI, Abdellah IDRISSE AZAMI and Hassan GHAZAL	Complete Mitochondrial genome of Chrysina resplendens
18:00 – 18:15	Nihal HABIB, Zainab EL OUAFI, Najib AL IDRISSE, Chakib NEJJARI, Wajih RHALEM, Mohamed KARRA, Lahoucine BAH and Hassan GHAZAL	The differences in gene expression due to physical activity between males and females
18:15 – 18:30	Zineb EL KETTANI, Wajih RHALEM, Fatima Azzahrae EL YACOUBI, Sofia SEHLI, Salsabil HAMDI, Imane ALLALI, Ihsan EL OTHMANI, Najib AL IDRISSE, Fayssal JHILAL and Hassan GHAZAL	Association between oral microbiome composition and depression in smokers and nonsmokers
18:30 – 18:45	Soumaya JBARA, Abdellah AZAMI IDRISSE, Sara FADEL, Najib AL IDRISSE, Wajih RHALEM, Imane ALLALI, Youssef BAKRI, Rajaa TISSIR and Hassan GHAZAL	Comparison of 16S rRNA Gene Based Microbial Profiling using North African vaginal microbiome data
18:45 – 19:00	Soukaina CHAKIB, Soumaya JBARA, Hasnae BIDAR, Wajih GHALEM, Najib ALIDRISSE, Salsabil HAMDI, Abderrazak RFAKI, Imane ALLALI, Imane MOTAIB and Hassan GHAZAL	Changes in composition and diversity of gut microbiome in a mice model with alzheimer's disease using ezbiocloud pipeline
19:00 – 19:15	Nihal FERHANE	DDDM with Intelligent CCTV systems in healthcare
19:15 – 19:30	Fatima Azzahrae EL YACOUBI, Zineb EL KETTANI, Sofia SEHLI, Imane ALLALI, Zakia BOUDAR, Nouzha DINI, Najib AL IDRISSE, Wajih RHALEM and Hassan GHAZAL	Assessment of Gut Microbiota in Obese Male and Female Children Using 16S rRNA Gene Profiling

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SESSION 10

Room 5: A09		25-05-2023
17:30 – 19:45		
17:30 – 17:45	Dhaud ODEI ANSONG, Salim DASON, Najib IDRISSE, Hassan GHAZAL and Fadil BEKAALI	Comparative analysis of the Microbiota in Raw and Pasteurized Bovine Milk from Norway.
17:45 – 18:00	Hasnae BIDAR, Sofia SEHLI, Soukaina CHAKIB, Wajih RHALEM, Abderrazak RFAKI, Najib ALIDRISSI, Fatima ALOMARI and Hassan GHAZAL	Comparative Analysis of Methadone's Impact on Intestinal Microbiota: A Cross-Population Study between the United States and China
18:00 – 18:15	Sofia SEHLI, Zainab EL OUAFLI, Casey EDDINGTON, Soumaya JBARA, Kasambula ARTHUR SHEM, Islam EL JADDAOUI, Ayorinde O. AFOLAYAN, Douae EL GHOUBALI, Olaitan I. Awe, Allissa Dillman and Hassan Ghazal	TAXAPRO: A Streamlined Pipeline to Analyze Shotgun Metagenomes
18:15 – 18:30	Sara EL JANAHI, Wajih RHALEM, Zakia BOUDAR, Sofia SEHLI, Salsabil HAMDI, Fadil BAKKALI, Najib AL IDRISSE, Said BARRIJAL, Chakib NEJJARI and Hassan GHAZAL	Cystic fibrosis 16S rRNA gene amplicon metataxonomic profiling analysis
18:30 – 18:45	Soumaya EL EMRANI and Otman ABDOUN	Improving Brain Stroke Diagnosis by Using Machine Learning Algorithms
18:45 – 19:00	Soumaya EL EMRANI and Otman ABDOUN	Artificial Neural Network for Diagnosis of Thyroid Disease
19:00 – 19:15	Sory MILLIMONO, Larbi BELLARBI, Sarah MAGHZAZ, Najib ALIDRISSI, Salsabil HAMDI, Nassim KHARMOUM, Ahmed BENAHOUE, Said JIDANE, Lahcen BELYAMANI, Hassan GHAZAL, Mostafa EZZIYANI and Wajih RHALEM	Analysis of the impact of optimization functions on the efficiency of Unet
19:15 – 19:30	Wajih RHALEM, Nabil AQILI, Sory MILLIMONO, Najib ALIDRISSI, Salsabil HAMDI, Nassim KHARMOUM, Said JIDANE, Lahcen BELYAMANI, Hassan GHAZAL and Mostafa EZZIYANI	New Smart Optimal transition molecules structure approach from discrete to continuous based on three-dimensional analysis method
19:30 – 19:45	Sarah KHROUCH, Loubna CHERRAT, Wajih RHALEM, Asma CHAIK, and Mostafa EZZIYANI	New approach for Predicting Optimal Neoadjuvant Treatment in Breast Cancer Patients using a Dynamic Treatment Graph

SESSIONS PROGRAM

DIGITAL HEALTH

SESSION 10

Room 5: A09		25-05-2023
17:30 – 19:45		
17:30 – 17:45	Dhaud ODEI ANSONG, Salim DASON, Najib IDRISSE, Hassan GHAZAL and Fadil BEKAALI	Comparative analysis of the Microbiota in Raw and Pasteurized Bovine Milk from Norway.
17:45 – 18:00	Hasnae BIDAR, Sofia SEHLI, Soukaina CHAKIB, Wajih RHALEM, Abderrazak RFAKI, Najib ALIDRISSI, Fatima ALOMARI and Hassan GHAZAL	Comparative Analysis of Methadone's Impact on Intestinal Microbiota: A Cross-Population Study between the United States and China
18:00 – 18:15	Sofia SEHLI, Zainab EL OUAFLI, Casey EDDINGTON, Soumaya JBARA, Kasambula ARTHUR SHEMA, Islam EL JADDAOUI, Ayorinde O. AFOLAYAN, Douae EL GHOUBALI, Olaitan I. Awe, Allissa Dillman and Hassan Ghazal	TAXAPRO: A Streamlined Pipeline to Analyze Shotgun Metagenomes
18:15 – 18:30	Sara EL JANAHI, Wajih RHALEM, Zakia BOUDAR, Sofia SEHLI, Salsabil HAMDI, Fadil BAKKALI, Najib AL IDRISSE, Said BARRIJAL, Chakib NEJJARI and Hassan GHAZAL	Cystic fibrosis 16S rRNA gene amplicon metataxonomic profiling analysis
18:30 – 18:45	Soumaya EL EMRANI and Otman ABDOUN	Improving Brain Stroke Diagnosis by Using Machine Learning Algorithms
18:45 – 19:00	Soumaya EL EMRANI and Otman ABDOUN	Artificial Neural Network for Diagnosis of Thyroid Disease
19:00 – 19:15	Sory MILLIMONO, Larbi BELLARBI, Sarah MAGHZAZ, Najib ALIDRISSI, Salsabil HAMDI, Nassim KHARMOUM, Ahmed BENAHOUE, Said JIDANE, Lahcen BELYAMANI, Hassan GHAZAL, Mostafa EZZIYANI and Wajih RHALEM	Analysis of the impact of optimization functions on the efficiency of Unet
19:15 – 19:30	Wajih RHALEM, Nabil AQILI, Sory MILLIMONO, Najib ALIDRISSI, Salsabil HAMDI, Nassim KHARMOUM, Said JIDANE, Lahcen BELYAMANI, Hassan GHAZAL and Mostafa EZZIYANI	New Smart Optimal transition molecules structure approach from discrete to continuous based on three-dimensional analysis method
19:30 – 19:45	Sarah KHROUCH, Loubna CHERRAT, Wajih RHALEM, Asma CHAIK, and Mostafa EZZIYANI	New approach for Predicting Optimal Neoadjuvant Treatment in Breast Cancer Patients using a Dynamic Treatment Graph

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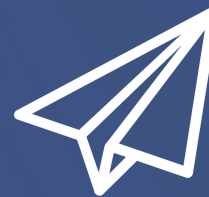
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