

2026
COCIA
CONFERENCE

The 4th International Conference on Connected Objects and AI (COCIA'2026)

April 28-29-30, 2026, Casablanca, Morocco

CONFERENCE PROGRAM



2026
COCIA
CONFERENCE

جامعة الحسن الثاني بالدار البيضاء
UNIVERSITÉ HASSAN II DE CASABLANCA

EST
المدرسة العليا للتكنولوجيا
جامعة الحسن الثاني بالدار البيضاء
Ecole Supérieure de Technologie
Université Hassan II de Casablanca

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in Networks
and Systems

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Prof. Youssef MEJDOUB
ESTC, UH2C, Casablanca, Morocco
ymejdoub@yahoo.fr



Prof. Abdelkebir ELAMRI
ESTC, UH2C, Casablanca, Morocco
elamri_abdelkebir@yahoo.fr

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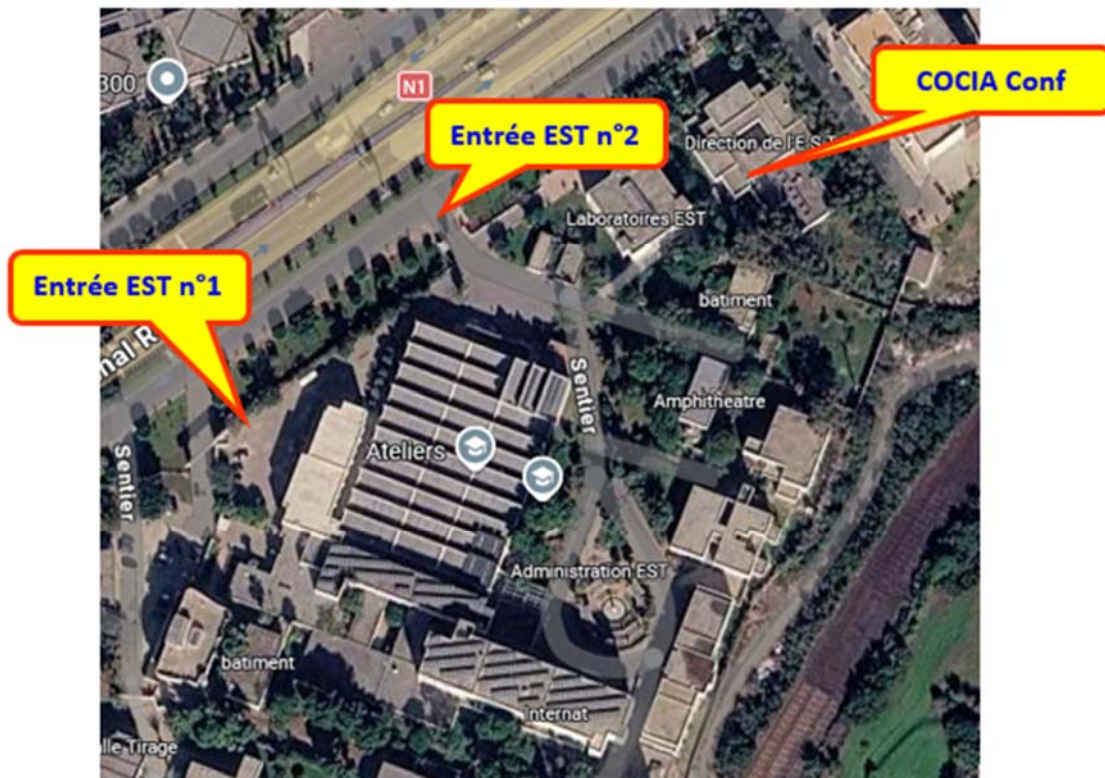
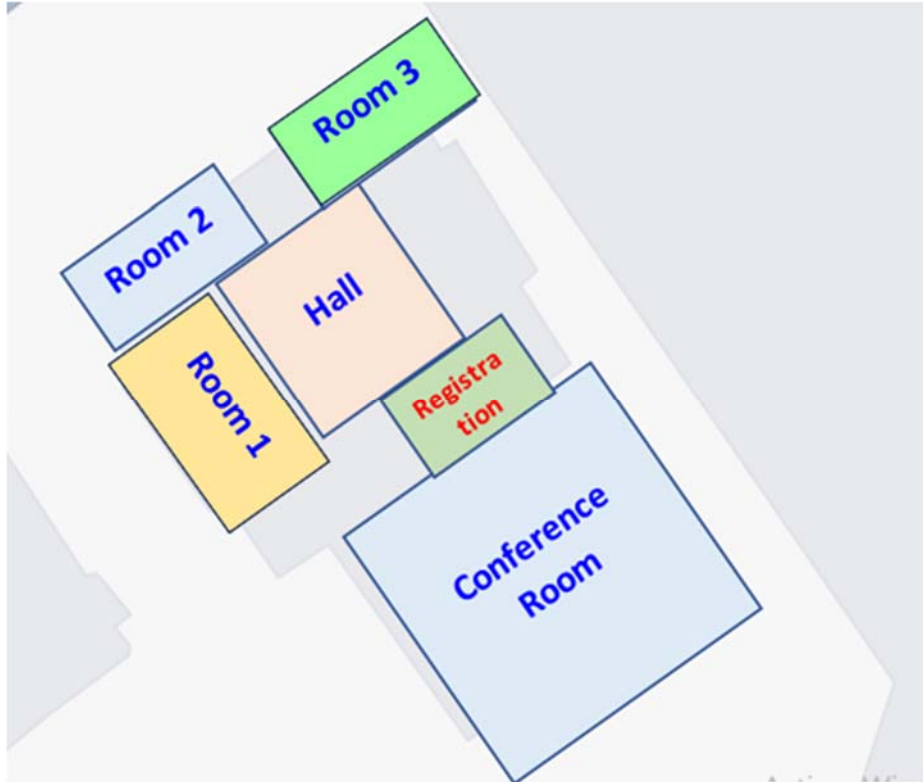
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ROOM



PRESENTATION GUIDELINES

- All presentations are in English.
- Each presentation is eight **(8-10) minutes** long with five (5) minutes for Q/As.
- Arrive 10 minutes before the session start time to upload your power point presentation. Please, start and end your presentation on time and keep the time schedule.
- For poster presentations, the posters should be displayed one hour before the beginning of the poster session and any explanation required should be provided to session chairs and visitors.

Announcement !!

During this COCIA'26 edition, the three best papers will be rewarded. Prizes for excellence will be awarded to the researchers of these presentations

Main Program of the COCIA'2026 Conference

Tuesday, April 28, 2026				
8:00 – 9:00	Registration and Welcome of Participants			
9:15 – 9:45	<p style="text-align: center; color: red; margin: 0;">Official Opening of the Conference</p> <p>Prof. Houssine AZEDDOUG President of UH2C University, Casablanca, Morocco Prof. Rachid ESSAMOUD Director of EST, UH2C University, Casablanca, Morocco Prof. Abderrahim MAIZAT Director of RITM Laboratory UH2C University, Casablanca, Morocco Prof. Abdelkebir ELAMRI COCIA'26 Chair, UH2C University, Casablanca, Morocco Prof. Youssef MEJDOUB President of AMaCTIA Association & COCIA'26 Chair</p>			
09:45 – 10:45	Keynote Speaker 1: Pr. Aawatif HAYAR – Morocco			
10:45 – 11:15	Coffee Break			
11:15 – 12:15	Keynote Speaker 2: <i>Dr. Alejandro Cisterna-García – Switzerland</i>			
12:15 – 13:15	Oral Session 1 : COCIA_AI_1	Oral Session 2 : COCIA_IoT_1	Oral Session 3 : COCIA_AI_2	
13:15 – 14:45	Lunch Break			
14:45 – 15:45	Oral Session 4 : COCIA_AI_3	Oral Session 5 : COCIA_IoT_2	Oral Session 6 : COCIA_Telecom_1	Poster Session
15:45 – 16:45	Keynote Speaker 3: <i>Pr. Ousmane SOW - Senegal</i>			
16:45 – 17:15	Coffee Break & Poster Session			
17:15 – 18:15	Oral Session 7 : COCIA_AI_4	Oral Session 8 : COCIA_IoT_3	Oral Session 9 : COCIA_Telec_2	Oral Session 10 : COCIA_W3EIS_1
Wednesday April 29, 2026				
8:30 – 9:00	Registration			
09:15 – 10:15	Oral Session 11 : COCIA_AI_5	Oral Session 12 : COCIA_IoT_4	Oral Session 13 : COCIA_Telec3	Oral Session 14H: COCIA_W3EIS_2
10:15 – 11:15	Coffee Break & Poster Session + Session Smart Systems (project)			
11:15 – 12:15	Keynote Speaker 4: <i>Pr Elmahdi DRIOUCH - Canada</i>			
12:15 – 13:15	Oral Session 15 : COCIA_AI_6	Oral Session 16 : COCIA_AI_7	Oral Session 17H: COCIA_IA_4	Oral Session 18: COCIA_W3EIS_3
13 :15 – 14:45	Lunch Break			
15:00 – 16:00	Keynote Speaker 5 : <i>Pr. Othmane EL MESLOUHI - Morocco</i>			
16:00 – 16:45	Coffee Break & Poster Session + Session Smart Systems (project)			
16:45 – 17:45	Oral Session 19 : COCIA_AI_8	Oral Session 20: COCIA_AI_9	Oral Session 21H : COCIA_AIH	Oral Session 22: COCIA_W3EIS_4
Thursday April 30, 2026				
09:00 – 10:00	Oral Session 23 : COCIA_IoT_9	Oral Session 24H : COCIA_AI_10	Oral Session 25 : COCIA_AI_11	Oral Session 26 : COCIA_W3EIS_5
10:00 – 10:45	Panel: IA in the Service of Scientific Research : Impact, Ethics and Challenges			
10 : 45 – 11:15	Coffee Break			
11h15 – 12h00	Clôture Officielle			
15h00 – 16h00	COCIA'26 Committee Meeting / AMaCTIA Association meeting - Collaboration and exchanges			

Detailed Program of the COCIA'2026 Conference

Tuesday, April 28, 2026	
8:00 – 9:00	Welcome and Registration of participants Installation of posters
Official Opening of the Conference	
9:00 – 9:45	<p>Prof. Houssine AZEDDOUG President of UH2C University, Morocco</p> <p>Prof. Rachid ESSAMOUD Director of EST, UH2C University, Morocco</p> <p>Prof. Abderrahim MAIZATE Director of RITM Laboratory UH2C University,</p> <p>Prof. Abdelkebir ELAMRI COCIA'26 Chair, UH2C University, Morocco</p> <p>Prof. Youssef MEJDOUB President of AMaCTIA Association & COCIA'26 Chair</p>
9:45 – 10:45	<p>Keynote Speaker 1 : Pr. Aawatif HAYAR – Morocco (Professor Expert in social policies and Frugal Social sustainable Smart Cities and Territories – UM6P / UH2C university)</p> <p>Title: “Paving the way towards Moroccan Frugal Sovereign Social AI model for Cognitive Smart Cities”</p> <p>Moderators:</p> <p>Prof. Noura AKNIN, FS UAE, Tetouan, Morocco</p> <p>Prof. Mounir RIFI (ESTC, UH2C University, Morocco)</p> <p>Room: Conference Room</p>
10:45 – 11:15	Coffee Break
11:15 – 12:15	<p>Keynote Speaker 2 : Pr. Dr. Alejandro Cisterna-García – Switzerland (Postdoctoral researcher at the Biomedical Data Science Lab at ETH Zurich)</p> <p>Title: “Artificial Intelligence and Bioinformatics: Transforming Personalized Medicine”</p> <p>Moderators:</p> <p>Prof. Mounaim AQIL (EST Benimellal, USMS Unibersity, Morocco)</p> <p>Prof. Othmane EL MESLOUHI (ENSA, UCA University, Morocco)</p> <p>Room: Conference Room</p>

12:15 – 13:15	Session 1 (CO CIA_AI_1): Artificial Intelligence and its Application Moderators: Prof. Ahmed JEMAL, ISET safax, Tunisie Prof. Karim ABOUELMEHDI, FS UCD, ELJADIDA, Morocco Prof. Abderrahim MAIZATE, ESTC UH2C, CASABLANCA, Morocco Room: Conference Room	
	Id_021	ESSAIDI abdessamad; CHEDMI Abdelhaq; BELLAFKIH Mostafa ; KANDOUSSI, El Mehdi « Harnessing Big Data and AI for Optimized Chronic Disease Management: A KNN-Based Recommendation System»
	Id_025	boughfir hamza; El Bahi Hassan « On the Role of Token Permutation in Transformer-Based Scene Text Recognition»
	Id_053	Chafiqui, Youssef; Anoun, Houda « Explainable Transformer-Based Moroccan Legal Question Answering»
	Id_080	Lachhab Youssef, Ziyati Elhoussaine « ArABSA-AP : Arabic Aspect-Based Sentiment Analysis Annotation Platform»
12:15 – 13:15	Session 2 (CO CIA_IoT_1): Connected objects and Systems Moderators: Prof. Najat MESSAOUDI, FSAC UH2C, CASABLANCA, Morocco Prof. KAWTAR EL HAOUTI, FSAC UH2C, CASABLANCA, Morocco Prof. Fedia MABROUK (ISET Sfax, Tunisie) Room: Room 1	
	Id_028	Moussa Noureddine, « TIRFS: Trust-based Indirect and Direct Secure Routing for Forest-fire Detection in WSN»
	Id_048	Ben Rabhi Manal, Ahmed Laguidi« A Brief Survey of Challenges in Heterogeneous IoT Systems»
	Id_055	Ennayer Deyae; Majit Nisrine; Amrous Naila, « Smart ports based on IoT : A lever for energy efficiency and sustainability in port operations : the case of Moroccan port sector»
	Id_139	HARDAD SARA, Abdelhadi ENNAJIH, Oussama Aoun, Youssef MOUZOUNA, Ikram DAANOUNE, Salma HMID « A Comparative Study of the Performances of Machine Learning and Deep Learning Models in IoT Networks across Multiple Dataset Distribution»
12:15 – 13:15	Session 3 (CO CIA_AI_2): Artificial Intelligence and its Application Moderators: Prof. Mohammed ELKAMILI, ESTC UH2C, CASABLANCA, Morocco Prof. Khalid BOURAGBA ESTC UH2C, CASABLANCA, Morocco Prof. Khalid NASSIRI FP Safi UCA, Marrakech, Morocco Room: Room 2	

	Id_038	Bounzid, khadija, Mohamed Ben Salah « Feature selection using a MLP Mixer »
	Id_069	EL MAGHRAOUI, Mounir; Ait Hammou, Kawtar; El ghamy, Mohamed; Ziani, Said; El haoussi, Fatima, « Deep Person Re-Identification under Real-World Constraints Robustness, Fusion, and Privacy Perspectives»
	Id_094	mamhoud, redouane; El Attar , Fahd; El Hamzaoui, Aya, « Advanced Multi-Floor Smart Building Energy Forecasting »
	Id_074	El Moussaoui, Taoufiq; El Moussaoui, Alaa Eddine; Toufah, Najat, « Can AI-Powered Heavy-Duty Vehicles Enable Carbon-Free Urban Deliveries ?»
13:15– 14:30	break Lunch	
14:45 – 15:45	Session 4 (COCIA_AI_3): Artificial Intelligence and its Application Moderators: Prof. Houda ANOUN, ESTC UH2C, CASABLANCA, Morocco Prof. Nassera HABBAT FST Settat, UH1, Morocco Prof. Ahmed LAGUIDI, ESTS UM5, RABAT, Morocco Room: Conference Room	
	Id_003	Benradi, Hicham; NATEK, HAMZA; Ammar, Adil; Lasfar, Abdelali, « Improvement of facial recognition in unfavorable conditions using multi-scale LBP, MobileNetV2, and data augmentation »
	Id_058	bentabet, mouhssine; MOUKHLISS , Ghizlane; BELHADAQUI, hicham, « Conceptual Framework for Multi-Agent Behavioral Integrity in Decentralized Ecosystems: Autonomous Blockchain Compliance»
	Id_066	ADNANE, BAAZIZI; EL HOUSSAINI , Mohammed-Alamine; EL HOUSSAINI, SOUAD, « Scaling TaRL Remediation via Agentic-RAG and Affective Computing: A Comparative Study in Moroccan Pioneer Schools»
	Id_071	Echchidmi, Mohamed; Bouayad, Anas, « Reinforcement Learning for Adaptive Multi-Teacher Knowledge Distillation in Speech Command Recognition»
	Id_122	BERRADA CHAKOUR, Othman; MAIZATE, Abderrahim; ETTOUFIK, Abdelaziz; AISSAOUI, Khalid, « Hybrid Deep Learning - Machine Learning Architectures for Bank Customer Churn Prediction: Sequential vs Parallel Integration»
14:45 – 15:45	Session 5 (COCIA_IoT_2): Connected objects and Systems Moderators: Prof. Mounaim AQIL (EST Benimellal, USMS Unibersity, Morocco) Prof. Othmane BENHMAMOUCHE (UIC Casablanca, Morocco) Prof. Abdelati REHA, EMSI, Marrakech, Morocco Room: Room 1	
	Id_044	MOURADE Fatima Zahra, Lahbib BOUSSHINE, Zakaria ELMASKAOUI, Essaadia AZELMAD, Salah dine JALAL « IoT-Based Digital Twin Validation for Axially Loaded Thin-Walled Structures»
	Id_054	Sembati Yassine; Naja Najib; Jamali Abdellah, « AI-Optimized Content Delivery for IoMT Healthcare A Software-Defined Named Data Networking Approach»

	Id_070	ET-TOUSY Jamal; ZYANE Abdellah; JAMIRI Hamza, « Autonomic QoS Management in OneM2M for IoT Using AI Agent»
	Id_081	Elbasri Abdennacer; Haibi, Achraf; El Meslouhi Othmane; ELAMRANI ABOU EIASSAD Zouhair, « HAJIN: A Low-Cost Autonomous Vehicle Prototype»
	Id_095	JAMIRI Hamza; ZYANE Abdellah; ET-TOUSY Jamal, « Black-Box Adversarial Threats in OneM2M-Based IoT Networks Evaluating and Defending Intrusion Detection Systems»
14:45 – 15:45	Session 6 (COCIA_Tel_1): Telecommunications Moderators: Prof. Hayat SEMLALI, ENSA UCA, MARRAKECH, Morocco Prof. Asmaa MAALI, ECOLE ROYALE NAVALE, Morocco Prof. Youssef Mejdoub, ESTC UH2C, Morocco Room: Room 2	
	Id_016	BHAJI AZIZE; haddad Abderrahim ; Jouali Redouane ; SABRI Khalid; Aoutoul Mohssin, « A Wideband and Compact 4x4 MIMO Antenna for 5G FR2 and Emerging Pre-6G Applications»
	Id_022	MAKROUM EL MOSTAFA; Maarad Abderrazak; RIFI MOUNIR; AMHARECH AMINE, « AI-Based Inverse-Forward Surrogate Model for Efficient Design of Microstrip Patch Antennas»
	Id_023	Oirgari Asma; Bahlaouane Ibtissam; Biqaa Rida; Ibnayaich Saida; Chabaa, Samira; Zeroual Abdelouhab, « Design and Fabrication of a Flexible Circular Patch Antenna for Sub-6 GHz 5G Wearable Applications»
	Id_107	Siraj Younes; Youssef Khardioui, Saidi Alaoui Kaoutar and Foshi Jaouad « Fractal Circular Patch Antenna for Biomedical and THz applications»
	Id_15x	Najib Belkhayat, Ali Outlasse, Raefat Jalila El Bakouchi, and Abdelilah Ghammaz « Design of an Ultra-Compact X-Band Patch Antenna for Space IoT Applications»
15:45 – 16:45	Keynote Speaker 3 : Pr. Ousmane SOW - Senegal (Full Professor of Universities (Professeur Titulaire des Universités)- Iba Der Thiam University of Thies (UIDT)) Title: “The Digital Revolution ” (La révolution numérique) Moderators: Prof. Mohamed HAMRAOUI (EST Casablanca, UH2C University, Morocco) Prof. Abdessalam EL YASSINI (EST Casablanca, UH2C University, Morocco) Room: Conference Room	
16:45 – 17:15	Coffee Break & Poster Session	
17:15 – 18:15	Session 7 (COCIA_AI_4): Artificial Intelligence and its Application Moderators: Prof. Imane LMATI, UH1, Settat, Morocco	

Prof. Mohammed BAZIGHA, ESTC UH2C, CASABLANCA, Morocco

Dr. Abdellah SASSI, ESTC UH2C, Casablanca, Morocco

Room: Conference Room

Id_006	EL GHORMLI Younes; LAFRIFRA Abdennacer; MARSO Said; OUASSAL Laila; WAANOUL Kamal, « Student Engagement Analytics in AI Systems: A Qualitative Pre-test of an Academic Support App for Higher Education»
Id_120	HAMDAOUI Taoufiq; AKNIN Noura, « Impact of Forecasting Models on Inventory Performance : A Comparative Study of Statistical and Machine Learning Approaches»
Id_132	BOURAYA Walid; AQIL Mounaim « Machine Learning Approaches to Lung Cancer Detection and Classification: A systematic Literature Review»
Id_072	El Moussaoui Taoufiq ; El Moussaoui Alaa Eddine, « Artificial Intelligence in Formula One: Solving Global Inter-Race Logistics Challenges through Data-Driven Decision Systems»
Id_076	El Moussaoui Alaa Eddine; Toufah Najat; El Moussaoui Taoufiq; Gmih, Yassine; Mahouat Nacer, « Artificial Intelligence and Automation in Smart Warehouses: A Socio-Technical Analysis of Logistics Performance in Morocco»

Session 8 (COICIA_IoT_3): Connected objects and Systems

Moderators:

Prof. Abdellatif SLIMANI, FSBM UH2C, CASABLANCA, Morocco

Prof. Samira CHABAA, ENSA UIZ, AGADIR, Morocco

Prof. Fayrouz DKHICHI, ESTC UH2C, CASABLANCA, Morocco

Room: Room 1

17:15 – 18:15

Id_057	Soukaina ESSAFI, Ahmed EL-YAHYAOUI, Ali OUACHA « AI Approaches to IoT Security: Challenges, Emerging Trends, and Future Directions»
Id_060	BABA El Mehdi; HILMI Mouna, « Why Does Perceived Security Not Enhance Perceived Usefulness? An Analysis Based on an Extended TAM of Internet of Things Adoption»
Id_064	GRIF Abdelali, Zyane Abdellah « Hybrid Multi-Metric QoS-Aware Routing in SD-IoT Networks Using Dijkstra and Adaptive Ant Colony Optimization»
Id_078	Chtouki El Mehdi; Mohtadi Hibat Eallah; Hanini Mohamed; Benalla Hicham, « Modeling Weather-Induced Failures in Medical Drone Networks: A Binary SMDP Formulation»

Session 9 (COICIA_Tel_2): :

Moderators:

Prof. Khalid EL KHADIRI, FS UCD, ELJADIDA, Morocco

Prof. MOHAMED TAOUZARI, ENSA UH1, SETTAT, Morocco

Prof. Rachid LATIF, ENSA UIZ, AGADIR, Morocco

Room: Room 2

17:15 – 18:15

Id_032	RIBQI Nouhaila; MAZRI Tomader, « Artificial Intelligence Approaches Applied to RIS Systems for 6G»
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	Id_033	Moustahcine Mouad; Mazri, Tomader, « A Security Architecture for UAV-BS in 6G Networks»
	Id_061	iksi hamza, Mohamed TAOUZARI, Rida LAGLIL, Jamal El AOUI « Baggage Tracking in Smart Airports: Radio Frequency Identification (RFID), Internet of Things (IoT), and Machine Learning for Real Time Tracking: A Review»
	Id_084	Mohammed Bellaj, Najib Naja, and Abdellah Jamali « NDN Consumer Mobility and Content Store: Performance Evaluation»
17:15 – 18:15	Session 10 (COCIA_3EIS_1): W3EIS_2: Electrical Engineering & Energy Moderators: Prof. Adil BARRA, FSAC UH2C, CASABLANCA, Morocco Prof. Jawad LAMTERKATI, ESTC UH2C, CASABLANCA, Morocco Prof. Said ZIANI, ENSAM UMV, Rabat, Morocco Room: Room 3	
	Id_008	MAFHOUM OSSAMA; MEJDOUB YOUSSEF; M'BARKI ZAKARIA; SENHAJI RHAZI KAOUTAR; AIT SALIH ALI, « Soft-Switching DC-DC Boost Converter with Auxiliary Resonant Circuit : Design, Analysis and Loss Comparison»
	Id_125	ayache maha; hamraoui mohamed, « Identification of thermal behavior at the contact interfaces of a multilayer electronic device»
	Id_129	M'BARKI Zakaria, Ossama Mafhoum, Ali Ait Salih , Soufiane Lghazi, Youssef Mejdoub, and Kaoutar Senhaji Rhazi, « Taming Conducted EMI in Boost Converters: A Soft-Switching Auxiliary Resonant Circuit Strategy»
	Id_130	LGHAZI Soufiane; Zakaria M'barki, Youssef Mejdoub, Kaoutar Senhaji Rhazi, and Ali Ait Salih, « Design of a Hybrid EMI Filter for Conducted Emission Reduction in High-Frequency DC-DC Converters for Electric Vehicles»
	Id_133	BEN EL HAJ Marouan; ZIANI Said, « Comparative Analysis of Single-Diode and Two-Diode Models for Photovoltaic Panels: Accuracy and Computational Performance»

Wednesday April 29, 2026		
8:30 – 9:00	Accueil - Installation des posters, démos et stands	
09:15 – 10:15	Session 11 (COCIA_AI_5): Artificial Intelligence and its Application Moderators: Prof. Mohamed Khalifa BOUTAHIR, ENIAD UMP, OUJDA, Morocco Prof. Abdellah JAMALI, ENSA UH1, SETTAT, Morocco Prof. Azzedine DLIU, FSA UIZ, AGADIR, Morocco Room: Conference Room	
	<table border="1"> <tr> <td>Id_101</td> <td>Abbi Amina; Skouri Mohammed; Raoufi Mustapha, « Modular LMS Architecture for STEM Education: Integrating Agentic AI Chatbots and Teacher-Provided Resources»</td> </tr> </table>	Id_101
Id_101	Abbi Amina; Skouri Mohammed; Raoufi Mustapha, « Modular LMS Architecture for STEM Education: Integrating Agentic AI Chatbots and Teacher-Provided Resources»	

	Id_031	Es-safy Nawal, Fouraiji Hicham and Messaoudi Najat, « Production Optimization Using Reinforcement Learning»
	Id_103	Mounassif Fath; Balouki Youssef; Rifay Yasser; Imane Lmati, « Human-Centric Generative AI for Interactive Surgical Planning: A Stratified Diffusion Dashboard with Bidirectional Uncertainty»
	Id_152	EL MOUDDEN, ZAYNAB; Jebbar Mostafa; Bahassine Said; Badou Abdallah, « Artificial Intelligence and Transcriptomic Integration in Glioblastoma: Decoding Tumor Heterogeneity and Immunotherapy Resistance»
09:15 –10:15	Session 12 (COCIA_IoT_4): Connected objects and Systems Moderators: Prof. Mohamed HAMRAOUI, ESTC UH2C, CASABLANCA, Morocco Prof. Jalal SABOR, ENSAM UMI, Meknes, Morocco Prof. Hicham JAKJOUR (ENSA Agadir, UIZ Unibersity, Morocco) Room: Room 1	
	Id_096	Abdessabour Bounasr, Latifa Bounasr, Karim Rhofir, Salaheddine Khamlich « Embedded System for Remote Monitoring of Vital Signs Using Arduino, GSM, and GPS»
	Id_104	TAJAT Nourelhouda, ZYANE Abdellah, Grif Abdelali, « SDN performance analysis on NSFNET and ARPANET architectures (network resource approaches)»
	Id_113	ELAAKIB Khadija; MAALI Asmaa; SEMLALI Hayat; Ghammaz Abdelilah, « Security Challenges : Risks, Security Strategies, and a Comparative Study of IoT Protection Approaches»
	Id_119	Charif Oumaima; Aknin Noura, « Dynamic optimization of LoRaWAN parameters in smart cities using Fair Reinforcement Learning»
09:15 –10:15	Session 13 (COCIA_Tel_3): Telecommunications Moderators: Prof. Hicham ROUIJAA, FSTS, UH1, SETTAT, Morocco Prof. Abdelhadi ENNAJIH, ENSEM UH2C, CASABLANCA, Morocco Room: Room 2	
	Id_083	KHOBZI Imane; BAGHDAD Abdennaceur; AKKADER Souad, « Design and Analysis of a Slotted Circular Microstrip Antenna for Sub-Terahertz Wireless Communications »
	Id_035	Kessabi salma; Mazri tomader, « Toward an AI-Native Security Cycle for 6G-V2N communications: The OLRA Approach»
	Id_118	KAZAZ Najat; HAMMOUD Nihad; CHARIF Oumaima; AKNIN Noura, « Energy-efficient massive MIMO for 5G IoT networks»
	Id_088	Temitayo Evelyn; Abikoye Oluwakemi; IMOIZE Agbotiname Lucky; MEJDOUB Youssef, « Intelligent Data-Driven Predictive Maintenance for Rotating Equipment Failures in Oil and Gas Industry: A State-of-the-Art Review.»

09:15 –10:15	Session 14H (COICIA_IoT_4): Connected objects and Systems Moderators: Prof. Khalil SAADAOU, ESTC UH2C, Casablanca, Morocco Dr. Abdellah SASSI, ESTC UH2C, Casablanca, Morocco Room: Room (Online)	
	Id_029	HARIZ Sawssen; Ben Rebah Hassen, « A Literature Review of MQTT Security Limitations and Mitigation Approaches in IoT Systems»
	Id_121	Friday Oodee Philip-Kpae, Agbotiname Lucky Imoize, Youssef MEJDOUB, « AI for Trust-Aware Decision-Making in IoT-Enabled Healthcare Systems»
	Id_014	TAHIRI MOHAMED, Soulaïman Louah, Yassine Lakhel, Abdelaziz Mimet, « Control-Structure Interaction in Wind Turbine MPPT: Quantifying the Impact of Drivetrain Flexibility on PID Controller Performance»
	Id_093	KA Aliou; SOW Ousmane, « Toward an Edge-AI Enabled IoT Platform for Smart and Sustainable Agriculture: An Industrial and Embedded Intelligence Approach»
	Id_114	Philip-Kpae Friday Oodee ; Imoize Agbotiname Lucky; Mejdoub Youssef , « Digital IoT Framework for Predictive Maintenance in Smart Manufacturing Systems»
	Id_067	Fedynyshyn Taras; Partyka Olha ; Imoize Agbotiname Lucky, « Cross-Model Contradiction Detection for AI-Generated Image Verification»
10:15 – 11:00	Coffee Break & Session Smart Systems (project presentation)	
11:00 –12:00	Keynote Speaker 4 : Pr. Elmahdi DRIOUCH – Canada (Associate Professor (Department of Computer Science Moncton) Title: “6G and Connected Intelligence : Physical Challenges and Algorithmic Solutions for Federated Learning ”” Moderators: Prof. Abdelkebir ELAMRI (EST Casablanca UH2C University, Morocco) Prof. Mohamed Ali JALLAL (ENS Fes, USMBA University, Morocco) Room: Conference Room	
12:00 –13:00	Session 15 (COICIA_AI_6): : Artificial Intelligence and its Application Moderators: Prof. Youssef FARHAOU, FSTE UMI, MEKNES, Morocco Prof. Amine Saddik, FSA UIZ, AGADIR, Morocco Prof. Mostafa JEBBAR, ESTC UH2C, CASABLANCA, Morocco Room: Conference Room	

	Id_026	AMEDJAR Assem; KARIMI Dounia, « A Bibliometric Analysis of AI and Big Data in Tax Governance: Mapping Intelligent Systems for Public Administration»
	Id_087	El Moussaoui Alaa Eddine; El Moussaoui Taoufiq; Toufah Najat; Benkhouili Aymen, « Regulating Artificial Intelligence in Urban Logistics Systems: Legal and Economic Perspectives»
	Id_090	El Moussaoui Alaa Eddine; El Moussaoui Taoufiq; Toufah Najat; Benkhouili Aymen; Mahouat, Nacer, « Can Artificial Intelligence and Taxation Reshape Urban Logistics? An Economic and Financial Analysis»
	Id_100	GHARBAOUI, AMINE, Ettaoufik Abdelaziz « A Systematic Comparative Study of Blockchain and Artificial Intelligence for Secure Identity Management»
12:00 –13:00	Session 16 (COCIA_AI_7): Artificial Intelligence and its Application Moderators: Prof. Ahmed LAGUIDI, ESTS UM5, RABAT, Morocco Prof. Hassan IFASSIOUEN, ESTC UH2C, CASABLANCA, Morocco Prof. Idriss MOUMEN (EST Casablanca UH2C University, Morocco) Room: Room 1	
	Id_137	EL-OUICHOUANY Salma; OUACHA Ali; EL-YAHYAOUI Ahmed, « A Review on Secure and Attack-Resilient Routing in IoT Networks Based on Machine Learning»
	Id_138	Zirari Khalid; El-Yahyaoui Ahmed, « A Hybrid AI-Driven Framework for Ransomware Detection »
	Id_145	Akhrif, Ayoub*, « Adaptive Traffic Signal Control System Based on a hybrid approach: AI Computer Vision and V2X Communication through a Realistic Simulation Environment»
	Id_149	Ikram GHALLABI, Abdelhak AQQAL, Rim GOURRAM, Mohammed BARDAOUI, Aziz DAHBI, and Abdelfettah HAIDINE « Comparative Analysis of Classical Statistical Methods and AI-Driven Approaches for Water Stress Mapping: Case Study of the Ourika Semi-Arid Watershed»
12:00 –13:00	Session 17H (COCIA_Tel_4): Artificial Intelligence and Telecom Moderators: Prof. Abdessalam EL YASSINI, ESTC UH2C, CASABLANCA, Morocco Prof. Hicham KARMOUNI, ESTC UH2C, CASABLANCA, Morocco Room: Room (Online)	
	Id_091	Agrawal Priyana; Dhiman Garima; Chaudhary Kavya; Sarthi Paarth, « Next-Generation Content Creation: Design and Implementation of an AI-Enhanced Blogging Platform using Large Language Models»
	Id_092	Agrawal Priyana; Dhiman Garima; Chaudhary Kavya; Sarthi Paarth, « Curate: Multiple Disease Prediction System»
	Id_012	CHAITHANYA SREE, M; DEEKSHITHA KALE; ANIL KUMAR K; DHANUSH C, « DRIVER DROWSINESS DETECTION SYSTEM»
	Id_110	Philip-Kpae Friday Oodee; Imoize Agbotiname Lucky; Mejdoub, Youssef, « Intelligent Network Slicing for Massive IoT Communications»

	Id_009	Soulaiman louah, Hicham Sarir and Mohamed Tahiri, « A Framework for Temporal Fusion Transformer Based Forecasting of Hospital Room and Ward Occupancy»
12:00 –13:00	Session 18 (COCIA_3EIS_3): W3EIS_2: Electrical Engineering & Energy Moderators: Prof. Kaoutar Rhazi SENHAJI, ESTC UH2C, CASABLANCA, Morocco Prof. Youness EL MOURABIT, EST USMBA, FES, Morocco Prof. Aicha WAHABI, ESTC UH2C, CASABLANCA, Morocco Room: Room 2	
	Id_036	Fathi Yassine; Qbouche Khalid; Rhoulami Khadija, « Simulating Urban Mobility in the Rabat Region: A Multi-Agent System Approach Using MATSim»
	Id_047	AIT SALIH, Ali; M'BARKI Zakaria; Mejdoub Youssef; Senhaji Rhazi Kaoutar ; MAFHOUM Ossama; LGHAZI Soufiane, «Improvement of the Electromagnetic Compatibility of Parallel DC–DC Converters through Active Snubber Integration»
	Id_134	DAMMARI ILHAM; Ziani Said, « Comparative Analysis of ECG Signal Filtering Techniques: A Performance Evaluation Study»
	Id_135	Hajar Bouzagda, Said Ziani and Omar Ansari « A Comparative Study of Deep Learning Approaches for Global Horizontal Irradiance Forecasting»
13 :00 –14:30 Lunch Break		
15:00 – 16:00	Keynote Speaker 5 : Pr. Othmane EL MESLOUHI – Morocco (Professor in computer sciences (ENSA Safi, Cadi Ayyad University, Morocco) Title: “Beyond the Classical: From Feature Engineering to the Era of Quantum Machine Learning in Medical Imaging” Moderators: Prof. Khalid NASSIRI (FP Safi, UCA University, Morocco) Prof. Youssef MEJDOUN (EST Casablanca, UH2C University, Morocco) Room: Conference Room	
16:00 –16:30 Coffee Break		
16:30 –18:00	Session 19 (COCIA_AI_8): : Artificial Intelligence and its Application Moderators: Prof. Othmane EL MESLOUHI, ENSA UCA, MARRAKECH, Morocco Prof. Mohammed ali JALLAL, ENS, USMBA, FES, Morocco Prof. El Arbi ABDELLAOUI ALAOUI, ENS UMI, Maroc Room: Conference Room	

	Id_050	Chaime Bahij, Hassan ECHOUKAIRI, Mohamed EL GHMARY, « QoS-Aware Load-Aware Task Offloading in Edge–Cloud Com-puting for IoT Applications»
	Id_105	ABOUKASS, kaoutar, ANOUN Houda, « Leveraging Topological Data Analysis to improve Sentiment Analysis on low-resources datasets»
	Id_045	MBOUMBA Paul Marcel; Mazri Tomader, « A Multi-layer Decentralized Architecture for Personalized ECG Denoising via Federated Learning and Explainable AI»
	Id_065	AGHERRABI, EL HAFED*; JAMALI, ABDELLAH; NAJA, NAJIB; OUHSSINI, MOHAMED; AKOUHAR, MOHAMED; ABARDA, ABDELLAH; Benchrif, Manal, « Accelerating DDoS Detection in Cloud Environments via Post-Training Quantization of Neural Networks»
16:30 –18:00	Session 20 (COCIA_AI_9) : Artificial Intelligence and its Application Moderators: Prof. Khalid Qbouche, EST USMBA, BENI MELLAL, Morocco Prof. Soufiane LAKHLIFI, ESTC UH2C, CASABLANCA, Morocco Prof. Mohammed RIDOUANI, ESTC UH2C, CASABLANCA, Morocco Room: Room 1	
	Id_049	ELKIHAL HAJAR; AOUAD SIHAM; MAIZATE Abderrahim, « A Two-Level Hybrid Machine and Deep Learning In-trusion Detection Framework for SDN Security»
	Id_15b	Mohamed Ben Brahim, Abdessalam El Yassini, Youssef Mejdoub, bdelkebir ELAMRI, «A Hybrid Machine Learning and Differential Evolution Approach for the Optimization of Patch Antennas»
	Id_076	El Moussaoui Alaa Eddine; Toufah, Najat; El Moussaoui, Taoufiq; Gmih, Yassine; Mahouat, Nacer, « Artificial Intelligence and Automation in Smart Warehouses: A Socio-Technical Analysis of Logistics Performance in Morocco»
	id_131	Marsnoma sulaimanu; ABIKOYE Oluwakemi Christiana « Hybrid GRU - Autoencoder Deep Learning Model for Network Intrusion Detection »
16:30 –18:00	Session 21H (COCIA_AIH) : Artificial Intelligence and its Application Moderators: Prof. Maha AYACHE, ESTC UH2C, CASABLANCA, Morocco Prof. Fayrouz DKHICHI, ESTC UH2C, CASABLANCA, Morocco Room: Room (Online)	
	Id_018	S V Suji Aparna, D Sandhya Rani, K Maheswari, Anjaneyulu, Mulkala & al, « Smart AI Chat Interface for Facilitating Real-Time Citizen Feedback Grievance Redressal in Smart Governance Systems»
	Id_019	Sricharan Santhosham, Anjaneyulu, Mulkala & al, « AI-Driven Agriculture Platform with Crop Prediction and Smart Marketplace»

	Id_005	Nikhil Kshirasagar & al, « INTELLIGENCE JOB APPLICATION AUTOMATION ENGINE»
	Id_077	GUEYE MAMOUR; FAYE Ababacar Sadikh ; NDIAYE Jupiter; DIOP Mame Andallah ; TRAORE, Youssou; DIALLO, Oumar; SOW, Ousmane; WADE, Mamadou, « Autonomous Smart Device for Managing Irrigation, Fertilization, Diagnosis, and Treatment of Plants in Urban Agriculture»
	Id_112	Philip-Kpae, Friday Oodee ; Imoize, Agbotiname Lucky*; Mejdoub, Youssef , « Energy-Efficient Federated IoT for Smart City Applications»
	Id_15a	Mahdi Bentahila, Ayman Naim, and Houssine Bouayad, «From Corrective Automation to Co-Creation: Mapping Evidence on the Impact of Generative AI on Transversal Skills in Higher Education (2014–2025) »
16:30 –18:00	Session 22 (COCIA_log_1) : W3EIS_2: Electrical Engineering & Energy Moderators: Prof. Anass BARODI, ENSA UH1, SETTAT, Morocco Prof. Abderrazak LALOULI, ESTC UH2C, CASABLANCA, Morocco Prof. Said AMRANE, FS UCD, Eljadida, Morocco Room: Room 1	
	Id_014	TAHIRI, MOHAMED, « Control-Structure Interaction in Wind Turbine MPPT: Quantifying the Impact of Drivetrain Flexibility on PID Controller Performance»
	Id_062	BIKNDAREN, Souhaila, « Power Quality Improvement in hybrid PV-Wind-Battery-V2G-Grid system»
	Id_085	Abdelah Allati, Mohamed Taouzari « Energy Efficiency of Buildings in Smart Cities: Synergy between Local Materials, IoT, and Artificial Intelligence for Sustainable Cities»
	Id_086	JAMAA ABDELKBIR; MOUTABIR Ahmed; MARRAKH Rachid , « An Intelligent Neural Network–Based MPPT Strategy for Photovoltaic Systems under Partial Shading Conditions»

Thursday April 30, 2026		
8:30 – 9:00	Accueil	
9:00 –10:00	Session 23 (COCIA_AI_9) : Connected objects and Systems Moderators: Prof. Ahmed LAGUIDI, ESTS UM5, RABAT, Morocco Prof. Abdelkarim ZEMMOURI, ESTS UIT, Kenitra, Morocco Room: Room 1	
	Id_043	Morchid Assia, Bousshine Lahbib, El Maskaoui Zakaria, Jalal Salah Eddine « Digital Twin Framework for Reinforced Concrete Beam Exposed to Fire»

	Id_027	Maman Guero Abdel Majid; Abghour Noredine; Chiba Zouhair; Moussaid Khalid, « A Scalable and Adaptive Update Architecture for IoT Devices»
	Id_011	MAKROUM EL MOSTAFA; SAKR HALIMA; RIFI MOUNIR; ADNAN MOHAMED; WAFDI, MAHJOUBA, « A Machine Learning-Based Framework for Energy Consumption Modeling and Trajectory Optimization in Autonomous Electric Vehicles»
	Id_059	BEY Hind, Lahbib BOUSSHINE, Essaadia AZELMAD, Zakaria El MASKAOUI, Salah Eddine JALAL, « Integration of Digital Twin for Vibration Structure using a Smartphone Sensor»
	Id_065	AGHERRABI EL HAFED; JAMALI ABDELLAH; NAJA NAJIB; OUHSSINI, MOHAMED; AKOUHAR, MOHAMED; ABARDA, ABDELLAH; Benchrif, Manal, « Accelerating DDoS Detection in Cloud Environments via Post-Training Quantization of Neural Networks»
9:00 –10:00	Session 24H (COCIA_AI_10) : Artificial Intelligence and its Application Moderators: Prof. Zakaria M'BARKI, ESTC UH2C, CASABLANCA, Morocco Prof. Jaafar IDRAIS, FS UIZ, AGADIR, Morocco Room: Room (Online)	
	Id_020	Anjaneyulu, Mulkala*, « Legal Case Management and Document Verification System Using Block chain and MERN Stack»
	Id_042	Sharma Ayushi; Pandey Pragya; Sharma Anvay; Saraswat Anurag, « Autonomous market research and trend analysis crew»
	Id_079	Guisse Yousouphe; SOW Ousmane, « Facial detection and recognition system»
	Id_015	Agyekum Amakye Daniel; Dadzie Joseph; Duodu Nana Yaw; Mainu-Tawiah Albert, « Confidence-Aware Pseudo-Labeling via Unsupervised Ensemble Consensus for Fraud Detection Contribution »
	Id_068	Lonkar Tanishka; Kulkarni Aditya ; Kumbhar Aditya; Mahalle Vedant; Kale, Rashmi, « Intelligent Legal Petition Automation and Drafting Framework»
	Id_082	P, Thangamariappan ; M, Nandhakumar ; C Cyril , Shibu ; K , Sri Sakthivel , « Robust Facial Emotion and Sign Language Recognition Using Multi-Head Swin Transformer»
9:00 –10:00	Session 25 (COCIA_AI_11) : Artificial Intelligence and its Application Moderators: Prof. Saida IBNYAICH, FSSM UCA, Marrakech, Morocco Prof. Raefat-Jalila ELBAKOUCI, ISGA Marrakech, Morocco Prof. Abdessalam EL YASSINI, ESTC UH2C, CASABLANCA, Morocco Room: Conference Room	
	Id_099	LOUJA AYOUB; Zaiouane Yassin; Jamali Abdellah; NAJA NAJIB, « A Blockchain-Enabled Hybrid Mamba–Transformer Model for Wearable-Based Eye Fatigue Inference»
	Id_046	Ouahbi El MOSTAFA, Ouahbi and Badr Hssina « Deep Reinforcement Learning--Based Recommendation Systems in Education: A Comprehensive Review»

	Id_124	Asmae Dakir, Khalid Lahyani, Ali Flifli, « Student Use of Generative AI for Academic Information Seeking: The Case of Hassan II University of Casablanca and its Implications for Academic Library Services»
	Id_075	El Moussaoui Taoufiq; El Moussaoui Alaa Eddine; Toufah, Najat, « From Reactive to Predictive Urban Logistics: Machine Learning–Driven Delivery Systems in a Smart City Context»
	Id_098	Ayman Khafif, Youssef Mouzouna, Abdelhadi Ennajih, Oussama Aoun, and Mohamed Bousbaa « TinyML-based Detection of Plant Pathogens: From Model Training to Edge Device Implementation»
	Id_063	HARKI, ANAS, Mohamed Moutchou, « An End-to-End Real-Time Drone-Based Human Detection and Alerting Framework Using YOLOv26»
9:00 –10:00	Session 26 (COCIA_ w3EIS_5) : W3EIS_2: Electrical Engineering & Energy Moderators: Prof. Maha AYACHE, ESTC UH2C, CASABLANCA, Morocco Prof. Hicham KARMOUNI, ESTC UH2C, CASABLANCA, Morocco Prof. Mohamed BEN ALI, ESTC UH2C, CASABLANCA, Morocco Room: Room 2	
	Id_15y	Ilham Saadouki, Abdelfattah Mechbouh , Said El ouardi , Yassine Lakhal , and Mohamed Saih «Design and Implementation of a Fuzzy Logic controller Based Energy Management System for an AC/DC Microgrid »
	Id_136	CHAOU YOUSSEF, Hafid Ben Achour, Said ZIANI « A comparative study of control techniques for tracking the maximum power point in solar photovoltaic systems »
	Id_106	bahaoui, salem, JAWAD LAMTERKATI « Comparative study between direct and indirect vector control of the Doubly Fed Induction Machine (DFIM) dedicated to a wind turbine application and practical validation of the results»
	Id-024	EZZAKI fatima« AgHT-4 based transparent Hilbert fractal array antenna for vehicular communications »
10:00 –10:45	Panel: Artificial Intelligence in the Service of Scientific Research : Impact, Ethics and Challenges Moderators: Prof. Abderrafia ELKALAY, ESTC UH2C, CASABLANCA, Morocco Room: Conference Room	
10:45 –11:15	<i>Coffee Break</i>	
11:15 – 12:00	<i>Clôture Officielle</i> Best Oral Presentation Delivery of certificates to participants	
15 :00 – 16:00	<ul style="list-style-type: none"> ▪ COCIA'26 Committee Meeting ▪ AMaCTIA Association meeting ▪ Collaboration and exchanges 	

COCIA'2026 Conference : Poster Session

Presentation Guides: To ensure the Poster session run smoothly during the conference, we request cooperation from poster presenters and ask that the following rules be adhered to.

- 1) The recommended format is A1 or A2 portrait.
- 2) The poster title, author(s)' names, and affiliations should be placed at the top of the poster. Please underline the name of the presenter in the author listing.
- 3) Please bring your poster with you and ensure it is put up before the start of the session poster.
- 4) Poster presenters are responsible for mounting and removing their posters themselves.
- 5) The posters will be presented on one full day.
- 6) Please remove your poster at the end of the day after the sessions.

Session Poster

Poster_01: Id_34	Bouladasse, Hajar; El Ganich, Said; Yahyaoui, Taoufiq, « Artificial intelligence applications in strategic decision support systems: a bibliometric analysis of trends, the- matic dynamics, and research frontiers»
Poster_02: Id_37	Bounzid, khadija*, « Average aggregation of features selection methods in breast cancer prediction»
Poster_03: Id_52	Erefai, Ouassima ; Lafraxo, Mohammed Amine ; Kharti, Kaoutar ; sennani, sara*; Benabou, Nada ; Fares, Rachid ; Hami, Hinde , « The Smart Bionic Ear: A Bibliometric Mapping of Cochlear Implant and IoT Technologies (2000-2024) »
Poster_04: Id_56	AKHARRAZ, najat*, « Network Behavior Analysis for Intrusion Detection A Systematic Review»
Poster_05: Id_117	DAHOU, yassine*, « Beyond the Explanation Signal: Toward Empirically Grounded Trust Calibration in Explainable AI»
Poster_06: Id_123	mamhoud, redouane*, « Advanced Multi-Floor Smart Building Energy Forecasting spinger format»
Poster_07: Id_126	BERKANI, Rihab*; MASOUABI, Asmae, « AI-Driven Powertrain System Energy Management Strategy for Plug-in Hybrid Electric Vehicles»
Poster_08: Id_128	MANSOURI, Rania*, « Implémentation d'une solution matérielle et logicielle complète d'un système de gestion d'énergie piloté par IA»
Poster_09: Id_140	LEMTOUKI, Sara*, « Toward an optimized approach to Data-Driven Decision Making in Industry 4.0 by using BI and AI»
Poster_10: Id_141	AIT EL ASRI, Fatima Ezzahraa*, « Smart Pharmaceutical Traceability for Counterfeit Prevention Using Anomaly Detection»
Poster_11: Id_142	sajib, Ibtissam*; Fanidi, Omar; Meddaoui, Anwar, « Predictive Maintenance Optimization via Multimodal Data Analytics»
Poster_12: Id_143	Issellay, Kenza*, « Design and Optimization of an Intelligent Multimodal System for Sports Performance Monitoring»
Poster_13: Id_144	ELHAFIDI, Yassine*, « Numerical Implementation of the Single Particle Model for SoC Estimation.»
Poster_14: Id_146	hara, ikram*, « Real-Time Digital Twin for Smart Manufacturing Optimization»
Poster_15: Id_147	belghiti , fatima zahrae*, « Commande Intelligente et Tolérante aux Défauts pour un Système de Production d'Hydrogène Vert»

Poster_16: Id_148	remmane, soukayna*, « Apport de l'intelligence artificielle dans l'évaluation de la motivation en e-learning adaptatif:" cas d'une plateforme de soutien scolaire"»
Poster_17: Id_150	bentabet, mouhssine*, « A Conceptual Framework for Multi-Agent Behavioral Integrity in Blockchain Compliance»
Poster_18: Id_151	Morchid, Assia*, « POSTER : Digital Twin Framework for Reinforced Concrete Beam Exposed to Fire»
Poster_19: Id_97	El Mansouri, MAnal*; Mokhlis , Khalil, « Quality of Digital Tax Platforms and SME Performance in the Era of Artificial Intelligence: A State of the Art Review»
Poster_20: Id_102	IDRISSI KHALDI, Mouataz*; Erraissi, Allae; Hain, Mustapha; Banane, Mouad, « Data Preprocessing for Supervised Classification: A Taxonomy, Systematic Review, and Open Challenges»
Poster_21: Id_108	Harifi, Hala*, « Detecting burnout using artificial intelligence and wear-able sensors: a narrative review of computational ap-proaches (2015–2025)»
Poster_22: Id_109	IDRISSI KHALDI, Mouataz*; Erraissi, Allae; Hain, Mustapha; Banane, Mouad, « A Lightweight and Reproducible Preprocessing Pipeline for IoT/Edge Classification: An Ablation Study»
Poster_23: Id_	ELALLAOUI Salama, Abdessalam El Yassini, Youssef Mejdoub, «Design of a 28GHz Unit Cell for Reconfigurable Intelligent Surface (RIS) 5G
Poster_24: Id_	Mouad FOUZA, Youssef Mejdoub, Kaoutar Senhaji Rhazi «Modélisation Électromagnétique et Performance CEM
Poster_25: Id_2	BENTAHILA, MAHDI*, « L'Intelligence Artificielle et l'Enseignement : Une Révolution Pédagogique»
Poster_26: Id_17	BRAHIM, DAFIR*, « REVIEW OF THE STATE OF THE ART OF DEEP LEARNING APPROACHES FOR THE DETECTION, SEGMENTATION AND CLASSIFICATION OF BRAIN TUMORS»
Poster_27: Id_102	IDRISSI KHALDI, Mouataz*; Erraissi, Allae; Hain, Mustapha; Banane, Mouad, « Data Preprocessing for Supervised Classification: A Taxonomy, Systematic Review, and Open Challenges»
Poster_28: Id_108	Harifi, Hala «Detecting burnout using artificial intelligence and wear-able sensors: a narrative review of computational ap-proaches (2015–2025)»
Poster_29: Id_1xx	Wissal BENNANNA, Houssine BOUAYAD, «Toward an Intelligent Aerospace Supply Chain: Management, Digitalization, and Audit»

COCIA'2026 : Session Smart Systems (Project)

Présentation obligatoire d'une réalisation pratique : Chaque projet « smart » sélectionné devra être présenté à l'aide d'une maquette (prototype) fonctionnelle ou physique

Session Smart Systems (project presentation): 29 Avril 2026

Project n°	Project Title & Team
Project n°01	détection de somnolence de conducteur (DriveAwake), (hayat moudarrize nouhaila BENDRAOUI, salma El mouhide, oumaïma CHOUKRI, chaymae chaffi)
Project n°02	AgriA — Agriculture Intelligente pour une Gestion Optimisée de l'Eau, (Muhammad Irfan Wahyudi, Abdelali Saadali , Mohamed Zouhair Rouissiya, Marouane Mounir , Mohammed El Himar)
Project n°03	AI-Driven Powertrain System Energy Management Strategy for Plug-in Hybrid Electric Vehicles, (BERKANI Rihab, MASOUABI Asmae)
Project n°04	Autonomous Battery Charging for IoT Devices Using Ambient Magnetic Field Energy, (Abdel-Majid Maman Guero, Noredine Abghour, Zouhair Chiba, Khalid Moussaid)
Project n°05	blade external inspection , (Meryem BRIBRI , Kawtar ELBAKALI, Douaa BELGHAZI, Rihab AIT EL MAATI)
Project n°06	Conception d'un système intelligent de détection et collecte des débris pour la sécurité aéronautique, (ACHOURI OTHMAN, DRIOUICH EL HABIB)
Project n°07	Correya AI : Système intelligent pour l'enseignement de l'EPS et le suivi des performances sportives scolaires, (KUIS Mohammed)
Project n°08	EcoSort AI, (Aya LEBZAR, Ayoub LETRACHE)
Project n°09	Embedded AI Platform for Robotic Interaction and Driving Assistance, (Abdennacer Elbasri, Zouhair ELAMRANI ABOU EIASSAD)
Project n°10	ENERGY LENS, (KELLAH Ali ; LAKHLOUFI Alaeddine ; NAOUALI Houssam ; KOUASSY Jamal)
Project n°11	Gestion d'inscription par lecture code QR avec ESP32-CAM, (Chfiri Abdessamad /Imran azzeddine/amine eddaoudi)
Project n°12	HSEBOT, (Mohamed Elanaami, Houssam Megouri , Yahya Larza, Said Ayoubi)
Project n°13	Maintenance Préventive des Moteurs Électriques par Intelligence Artificielle & Machine Learning, (MARZAK Abdellah, ARAICHE Asmae et CHAHBY Zineb)
Project n°14	Pharmaline , (Mor laye Cissé ,Thierno Malady Diallo,Serigne Elkhadj Mbacké,Mouhamed Konté,Sidi wade)
Project n°15	Robot assitant connecté pour l'inspection autonome par l'intelligence artificielle, (Ahmed El Faridi, Saadali Amrou)

Project n°16	robot autonome pour l'inspection des batteries des installations d'énergies renouvelables, (Alaoui Sossi Hajar, Berrada Ikram, Mouttaki Salah , Oukannou Meryem, Zouhri Wiam)
Project n°17	SafeMotion – Dispositif wearable de détection et prévention des chutes par IA embarquée (Edge AI), (EL HANSALI Ayman – Chef de projet, IA embarquée, développement)
Project n°18	Smart fire detecting and evacuation system , (Abdelah bouali, mohcine elhoudaigi)
Project n°19	Smart IoT-Autonomous Robot for Surveillance and Safety, (Hassan AIT ALLOU M'barek EL-LOUH, Omar ELHAZZAOUI)
Project n°20	Smart meter (Said yassine Raghay, Mohammed amine)
Project n°21	Smart Plant Prediction System, (BEN JOU Walid , ELOUADGHIRI Mohamed, IBNOUSSINA Rokaya, AKHBAICH Aicha, MOUFID EL Mehdi)
Project n°22	SmartStruct, (ASH TEAM (Achraf IZELMADENE, Safaa ZEGAN, Hassan HAJJAJ)
Project n°23	SNOWLIFE DRONE, (Lahoucine HIKKI, Samir OUBAHA, Sara LEMOUDEN, MOHAMED EL OUADGHIRI)
Project n°24	Station de recharge intelligente pour véhicules électriques avec supervision IoT et surveillance basée sur l'IA, (AHIL Hamza - ZOUHRI Wiam)
Project n°25	SwarmX, (Mouaad Berrada - Yahya Loukili - Ikram ait omar)
Project n°26	Système IoT de Gestion Automatique de Présence Par Empreinte Digitale, (Bouba Ahmed et Slimane Omari)
Project n°27	Windblade inspector, (Zineb chahby ,asmaa araiche,abdrrahim manssouri.hamza ahil ,younnes abounouh ,abderrehmane laouad)
Project n°28	YallaPark, (Ayman Ouizrouguen - Youssef Aboueddaira - Yassine Amjad - Ikram Ait Ihaj - Salma Atik)
Project n°29	Smart Safety Collar System (EL-ALAMI Aymane)

Keynotes Speakers



Pr. Aawatif HAYAR

UM6P / UH2C University, Morocco

Professor Expert in social policies and Frugal Social sustainable Smart Cities and Territories

Pr. Aawatif HAYAR is Expert in social policies and Artificial Intelligence powered inclusive sustainable smart cities and territories. Strategic Advisor at Presidency of University Mohammed VI Polytechnic on Artificial Intelligence driven Smart Cities in charge of AI Powered Smart Campus project@UM6P. Former Minister of Solidarity, Social Inclusion and Family 2021-2024. Aawatif Hayar was appointed President of the University Hassan II of Casablanca-Morocco From June 2019 till October 2021 and is the second female in the history of Morocco to occupy this position. She received, with honors, as the First Moroccan, the degree of "Agrégation" in Electrical Engineering from Ecole Normale Supérieure de Cachan in 1992. She received the "Diplôme d'Etudes Approfondies" in Signal processing Image and Communications and the degree of Engineer in Telecommunications Systems and Networks from ENSEEIHT de Toulouse in 1997. She received with honors the Ph.D. degree in Signal Processing and Telecommunications from Institut National Polytechnique in Toulouse in 2001. She was research and teaching associate at EURECOM's Mobile Communication Department from 2001 to 2010 in Sophia Antipolis-France. Aawatif Hayar has an HDR (Habilitation à Diriger la Recherche) from University Sud Toulon Var from France on Cognitive Wideband Wireless Systems on 2010 and an HDR on Green Télécommunication from University Hassan II Casablanca on 2013. Aawatif Hayar has Professor position at the engineering school ENSEM of University Hassan II Casablanca since 2011. She is also member of Casablanca "Avant-garde" City think-tank and Chair of Frugal Social Smart City Casablanca IEEE Core Smart Cities project. Her research interests includes fields such as cognitive green communications systems, UWB systems, **smart grids, digital for development, e-governance, open data for citizens, frugal social smart cities, social policies, Artificial Intelligence powered smart cities and Territories.**

Title: "Paving the way towards Moroccan Frugal Sovereign Social AI model for Cognitive Smart Cities "

Abstract: This talk presents a new concept termed Frugal Social Sovereign Artificial Intelligence (FSSAI) seeking to place social and engineering innovation in the service of human development, economic development and social wellbeing. It places the human

intelligence, at the center of the collective intelligence development process. It creates Augmented Intelligence able to tackle humanity's real challenges, including climate change, education, health, Sustainable Development Goals (SDGs) and beyond. FSSAI prioritizes efficiency, energy optimization, ethics, inclusiveness and local relevance and ownership.



Dr. Alejandro Cisterna-García

ETH Zurich, Suisse

**Postdoctoral researcher at the
Biomedical Data Science**

Dr. Alejandro Cisterna-García earned his Ph.D. in Bioinformatics in 2023 from the University of Murcia, where he previously completed a Master's degree in Bioinformatics and a Bachelor's degree in Biotechnology. He is currently a postdoctoral researcher at the Biomedical Data Science Lab at ETH Zurich. His research centers on the development and application of machine learning and deep learning methodologies for biomedical challenges, with a particular focus on disease diagnosis. His work has primarily addressed neurodegenerative and infectious diseases, alongside bioinformatics tool development. More recently, his research has expanded into deep learning approaches for antimicrobial activity prediction, integrating computational modeling with translational biomedical application

Title: "Artificial Intelligence and Bioinformatics: Transforming Personalized Medicine"

Abstract: The convergence of artificial intelligence (AI) and bioinformatics is reshaping the landscape of personalized medicine. Advances in high-throughput sequencing, multi-omics technologies, and digital health platforms have generated vast amounts of biological and clinical data. However, transforming this data into actionable medical insights requires sophisticated computational approaches.

This talk explores how AI, particularly machine learning and deep learning, integrated with bioinformatics pipelines enables the identification of disease-associated biomarkers, prediction of potential new treatments, and stratification of patients into clinically meaningful subgroups. By leveraging genomic, transcriptomic, proteomic, and

clinical data, AI-driven models can uncover complex biological patterns that traditional analytical methods often miss.



Pr. Ousmane SOW

Iba Der Thiam University of Thiès, Senegal

Director IUT of Thiès

Professor in Electrical Engineering

Pr. Ousmane SOW is a lecturer and researcher in the Electrical Engineering Department at the University Institute of Technology (IUT) of Iba Der Thiam University of Thiès (UIDT). He heads the DAT (Development and Application of Technology) research team at the LM3E (Laboratory of Materials, Energy, Electricity, and Economics) of the UIDT IUT.

Currently, Mr. Sow is the Director of the Thiès IUT. Previously, he was the Director of Studies at the Thiès IUT, after having been the Head of the Electrical Engineering Department at the Thiès IUT.

Specialties taught: Electronics, Automation, and Industrial Computing.

Research themes: Intelligent electronic systems, Photovoltaic solar energy.

Professor Ousmane Sow is the Deputy Coordinator for the Central West region of the SPS (Senegalese Physical Society), a national learned society and member of SOAPHYS, an international learned society.

Currently, Professor Ousmane Sow is the UIDT Coordinator for the AfriConnect+ project, funded by the European Union’s Erasmus+ program. This project focuses on IoT applications and brings together seven universities from four countries (Senegal, Morocco, Romania, and France) in a consortium. He is also the UIDT Coordinator for the CréaSAM project, funded by ADESFA in partnership with France, which focuses on capacity building in the fields of Automation and Maintenance.

Title: "The Digital Revolution (La révolution numérique)"

Abstract: La révolution numérique constitue l’un des bouleversements les plus profonds et les plus rapides de l’histoire moderne. Elle transforme simultanément les économies, les modes d’organisation sociale, les systèmes éducatifs, la gouvernance, ainsi que les rapports entre individus, institutions et technologies. Cette conférence propose une analyse structurée des dynamiques à l’œuvre, en mettant en évidence les ruptures majeures introduites par les technologies numériques (Intelligence

artificielle, Internet des objets, big data, automatisation, services en ligne, plateformes collaboratives) et leurs implications dans les pays africains en particulier.



Pr. Elmahdi DRIOUCH

University of Quebec, Montreal, Canada

**Associate Professor (Department of
Computer Science Moncton)**

Pr. Elmahdi DRIOUCH received the B.E. degree from the National School of Applied Sciences, Marrakech, Morocco, in 2006, and the M.Sc. and Ph.D. degrees in Computer Science from the Université du Québec à Montréal (UQAM), Canada, in 2009 and 2013, respectively. He held postdoctoral research positions at Concordia University from 2014 to 2015 and at UQAM from 2016 to 2017.

From 2017 to 2019, he was an Assistant Professor with the Department of Computer Science at the Université de Moncton. He is currently an Associate Professor with the Department of Computer Science at UQAM.

His research interests include wireless communications and networks, resource allocation, and algorithm design, with a particular focus on efficient and scalable solutions for next-generation communication systems. His work has been published in numerous peer-reviewed journals and international conferences, where it has contributed to both theoretical advancements and practical system design

Title: “6G et intelligence connectée – défis physiques et solutions algorithmiques pour l’apprentissage fédéré ”

Abstract: The emergence of 6G represents a major turning point in wireless communications: we are shifting from a network designed to connect people to a structure specifically engineered for connecting intelligence. Federated Learning (FL) stands as a key driver of this transformation, enabling the collaborative training of AI models at the network edge without the need to centralize raw data.

However, implementing FL in real-world wireless environments faces a veritable “physical wall.” Unlike the stable connections found in data centers, radio links are unpredictable, prone to interference, and constrained by battery life. Neglecting these physical constraints can severely degrade learning performance and potentially hinder model convergence.

This keynote will begin by exploring the envisioned architecture for 6G (IMT-2030), highlighting the critical role of AI and its applications in this new generation. We will move beyond the simple race for data rates to explore how the convergence of computation and communication, coupled with emerging technologies such as Integrated Sensing and Communications (ISAC) and Non-Terrestrial Networks (NTN), is transforming wireless mobile infrastructure into a truly distributed data center.

Subsequently, we will detail recent contributions aimed at optimizing hierarchical federated learning through two complementary approaches:

- An “Online” Algorithmic Approach: Using Multi-Armed Bandits (MAB) to manage client association and real-time modulation adaptation, thereby transforming wireless channel uncertainty into a sequential decision-making problem.
- An Incentive-Based Approach: Applying Contract Theory to address information asymmetry, ensuring that rational intermediate nodes are motivated to participate in the aggregation process.



Pr. Othmane EL MESLOUHI

ENSA, Cadi Ayyad University, Morocco

Professor in computer sciences (ENSA, Cadi UCA, Morocco)

Pr. Othmane EL MESLOUHI is a Full Professor at the National School of Applied Sciences (ENSA) in Safi, part of Cadi Ayyad University. He earned his Ph.D. in Computer Science from the Faculty of Sciences and Techniques of Settat.

Since beginning his academic career in 2013, he has been actively involved in research and the supervision of Ph.D. candidates and final-year projects. His research focuses on Quantum Machine Learning, Deep Learning, Pattern Recognition, Medical Imaging, and Computer Vision.”

Title: “ Beyond the Classical: From Feature Engineering to the Era of Quantum Machine Learning in Medical Imaging”

Abstract: The history of medical image processing is a relentless quest to extract meaning from complex data. Historically, this field has been dominated by explicit feature engineering (hand-crafted features). For decades, the performance of

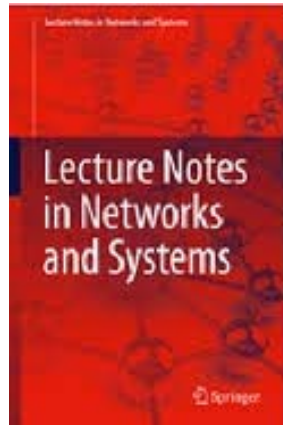
computer-aided diagnosis systems relied on the robustness of mathematical descriptors such as SIFT detectors or Harris corner detectors. While foundational, these methods required considerable human expertise to model relevant characteristics and often lacked generalization capabilities in the face of biological variability.

The emergence of Deep Learning marked a paradigm shift, replacing manual extraction with the learning of hierarchical representations via Convolutional Neural Networks and Vision Transformers. However, as image resolution increases and precision medicine demands the analysis of massive multimodal data, classical architectures are approaching their theoretical and energy limits. The computational complexity of certain non-convex optimization problems in medical imaging remains a major obstacle for current supercomputers.

It is within this context of technological saturation that we introduce a new frontier. The advent of quantum technologies opens unprecedented horizons for machine learning by pushing the boundaries of classical approaches. This presentation explores the potential of Quantum Machine Learning (QML) through its concrete application in the field of medical imaging, particularly for the early detection of pathologies and high-complexity image segmentation.

Proceeding COCIA'2026

The proceedings of COCIA'2026 will be published by Springer Lecture Notes in Networks & Systems (Indexing: SCOPUS, INSPEC, WTI Frankfurt eG, zbMATH, SCImago; All books published in the series are submitted for consideration in Web of Science).



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في الذكاء الاصطناعي



The 4th International Conference on Connected Objects and Artificial Intelligence (COCIA'2026)

April 28-29-30, 2026, Casablanca, Morocco

Our Speakers



Pr. Awatif HAYAR
UM6P – UH2C
University, Morocco



Pr. Oussmane SOW
Iba Der Thiam University
of Thies, Senegal



Dr. Alejandro Cistrna Garcia
ETH Zurich, Switzerland



Pr. Elmahdi DRIOUCH
University of Quebec,
Montreal, Canada



Pr. Othmane EL MESLOUHI
ENSA, Cadi Ayyad University
Morocco

Organizers



Topics



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Telecommunications



Electronics engineering





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