



تحت الرعاية السامية لصاحب الجلالة الملك محمد السادس
Sous le Haut Patronage de Sa Majesté le Roi Mohammed VI
Under the High Patronage of His Majesty King Mohammed VI



جامعة محمد الخامس
أكادير - الرباط
Université Mohammed V
Agdal - Rabat

The 8th International Conference on Advanced Technologies for Humanity

📅 July 15 to 17, 2026

📍 FS - UM5, Rabat, Morocco

ICATH 2026





“Nous avons autant d’ambition que de détermination pour assurer l’insertion du Maroc, par ses entreprises et ses universités, dans l’économie mondiale du savoir.”

*Extrait du Texte intégral du discours adressé à la nation
Par sa Majesté de Roi Mohammed VI à l’occasion de la fête du Trône.*

30/07/2008

Madame, Monsieur,

La Conférence Internationale sur les Technologies Avancées au Service de l'Humanité (**ICATH – International Conference on Advanced Technologies for Humanity**) est un événement scientifique international qui réunit chaque année chercheurs, universitaires, industriels, innovateurs et décideurs autour des avancées technologiques contribuant au développement durable et au progrès de la société.

Depuis sa création, ICATH s'est imposée comme une plateforme multidisciplinaire de référence favorisant les échanges scientifiques, le partage d'expériences et le développement de collaborations nationales et internationales. Au fil de ses éditions, la conférence a accueilli des participants issus de nombreux pays d'Afrique, d'Europe, d'Amérique du Nord, d'Asie et du Moyen-Orient, consolidant ainsi son rayonnement international.

La vision d'ICATH est de promouvoir une recherche scientifique et une innovation technologique responsables, capables d'apporter des solutions concrètes aux grands défis contemporains dans des domaines tels que l'intelligence artificielle, la cybersécurité, la santé numérique, les villes intelligentes, l'énergie, l'environnement, l'industrie 5.0 et la transformation digitale.

- Les principaux objectifs de la conférence sont de :
- Favoriser la diffusion des résultats de recherche de haut niveau ;
- Renforcer les liens entre le monde académique et le secteur industriel ;
- Encourager l'innovation, le transfert technologique et l'entrepreneuriat scientifique ;
- Développer des partenariats internationaux durables ;
- Offrir aux jeunes chercheurs un cadre privilégié d'échange et de valorisation de leurs travaux ;
- Contribuer à l'émergence de technologies au service du développement durable.

La 8^e édition d'ICATH, organisée du 15 au 17 juillet 2026 à la Faculté des Sciences de Rabat – Université Mohammed V, constitue une étape majeure dans l'histoire de la conférence puisqu'elle se tient **sous le Haut Patronage de Sa Majesté le Roi Mohammed VI, que Dieu L'assiste**. Cette édition a enregistré une participation exceptionnelle avec plus de 310 articles scientifiques soumis, provenant de plus de 20 pays, confirmant ainsi la reconnaissance internationale croissante de l'événement.

À travers son slogan « Advanced Technologies for Humanity », ICATH réaffirme son engagement à promouvoir une technologie innovante, inclusive et durable, mise au service du progrès humain et du développement socio-économique.

Dr. Brahim El bhiri, Founder and ICATH General Chair
Prof. Ayman Mosallam, Founder and ICATH General Chair

Programme Général

DAY 1: Wednesday 15th July 2026 (GMT+1)

8:30 – 9:15 FSR-UM5 Reception	Registration	
9:15 – 10:15 Amphi Belmahi	OPENING & INAUGURATION CEREMONY M. Azzedine El Midaoui, Minister of Higher Education, Scientific Research, and Innovation Ms. Amal El Fallah Seghrouchni, Minister of digital transition and administration reform M. Mohamed Rhachi, UM-5 President, Morocco Ms. Jamila EL ALAMI, Director of the National Center for Scientific and Technical Research (CNRST) M. Redouane Benaini, FSR-UM5 Dean, Morocco M. Othmane Kettani, INSEA Director, Morocco M. Abdelhamid Belmekki, INPT Director, Morocco M. Samir Rachidi, IRESEN Director M. Zaki Narjisse, Harmony Technology, Morocco M. Antoine Panzani, Competance Director, ALTEN Maroc Prof. Badr Eddine Kartah, Fondation AVERROES President, Morocco Prof. Ayman Mosallam, general chair, UCI, USA Prof. Younes Karfa Bekali, general chair, FS-UM5, Morocco Dr. Brahim El bhiri, general chair, Harmony Technology, Morocco	
10:15 – 10:30	Coffee Break	
10:30 – 11:15 Amphi Belmahi	Keynote speaker 1: Prof. Aawatif HAYAR Former Minister of Solidarity, Social Integration and Family International expert in social policies, artificial intelligence, and Frugal Social smart cities “Frugal Sovereign Social AI” Moderator: Prof. Amir Hussain	
11:15 – 12:00 Amphi Belmahi	Keynote speaker 2: Prof. Kuolin Hsu Center for Hydrometeorology and Remote Sensing Department of Civil and Environmental Engineering, Henry Samueli School of Engineering, University of California, Irvine “ADVANCES IN ARTIFICIAL INTELLIGENCE FOR HYDROLOGY AND WATER RESOURCES MANAGEMENT” Moderator: Prof. Ayman S. Mosallam	
12:00 – 12:45	Round Table: FROM SMART CITIES TO SMART VILLAGES: Democratizing Advanced Technology for Accessible Housing Intervenant: Prof. Aawatif HAYAR, Prof Ayman S. Mosallam, Prof. Bai Kendrick Blyden, Prof. Rafika Hajji Moderator: Ms. Dr. Hanaa Rezk Amphi Belmahi	<u>SS INCODE: ROOM A</u> <u>Session Chair:</u> Prof. Rajaa Saidi Prof. Salma Mouline
13:00 – 14:30	Lunch Break	

14:30 – 15:15 Amphi Belmahi	Keynote speaker 3: Prof. Mehdi Bennis 6G Flagship, Centre for Wireless Communications HEAD of ICON, IEEE Fellow, University of Oulu “Semantic and resilient-native communication in the 6G era” <i>Moderator: Prof. Amir Hussain</i>				
15:15 – 16:30	<u>Session I.201:</u> <u>Room 1</u> <u>Session Chair:</u> Prof. Soumia Ziti Prof. Eddarouch Souad	<u>Session I.101:</u> <u>Room 2</u> <u>Session Chair:</u> Prof. Rajaa Saidi Prof. Samira DOUZI	<u>Session I.501:</u> <u>Room 3</u> <u>Session Chair:</u> Prof. Younes Karfa Bekali Prof. Ouahbi Younesse	<u>Session I.401: Room 4</u> <u>Session Chair:</u> Prof. Yasmina Ed-daryi Prof. Yassine El Mendili	<u>SS ARIKO: Room A</u> <u>Session Chair:</u> Prof. Mhamed Sayyouri Prof. Mohamed Amine TAHIRI
16:30 – 16:45	Coffee Break				
16:45 – 17:15	Invited Speaker 1: Prof. Lina Khaddour EDINBURGH NAPIER, UK “Opportunities and Challenges of Adopting Agentic AI in Construction Management” <i>Moderator: Prof. Yasmina Ed-daryi</i> Amphi Ibn Haytam		Invited Speaker 2: Prof. Laila Fetjah FS Ain Chock, University Hassan II, Morocco “Cybersecurity for Humanity: Building Trusted & Ethical AI Ecosystems” <i>Moderator: Prof. Soumia Ziti</i> Amphi Belmahi		
17:15 – 18:30	<u>Session I.202:</u> <u>Room 1</u> <u>Session Chair:</u> Prof. Najem kamal prof. Saïkouk Hajar Prof. Rouky Naoufal	<u>Session I.203:</u> <u>Room 2</u> <u>Session Chair:</u> Prof. Belmajdoub Hanae Prof. Soumia Ziti Prof. Fatimazhar Benbouaaza	<u>Session I.102:</u> <u>Room 3</u> <u>Session Chair:</u> Prof. Tahiri Alaoui Moulay Lakbir Prof. Samira DOUZI	<u>Session I.502: Room 3</u> <u>Session Chair:</u> Prof. Ouahbi Younesse Prof. TRICHNI Salima	<u>SS ARIKO: Room A</u> <u>Session Chair:</u> Prof. Mhamed Sayyouri Prof. Mohamed Amine TAHIRI
DAY 2: Thursday 16th July 2025 (GMT+1)					
8:30 – 9:00 FSR-UM5 Reception	Registration				
9:00 – 9:45 Amphi Belmahi	Keynote Speaker 4: Prof. Amir Hussain School of Computing, Edinburgh Napier University, Scotland, UK “TRUSTWORTHY AND RESPONSIBLE AI TECHNOLOGIES FOR HEALTHCARE AND INDUSTRIAL APPLICATIONS: REAL-WORLD USE CASES, CHALLENGES AND OPPORTUNITIES” <i>Moderator: Dr. Brahim El Bhiri</i>				
9:45 – 10:30 Amphi Belmahi	Keynote Speaker 5: Prof. Rachid ELFATIMY Dean of the Faculty of Medical Sciences and General Director of the University Hospitals at the Mohammed VI Polytechnic University, Morocco “Precision Medicine and Emerging Technologies: Redefining Healthcare for the Future” <i>Moderator: Prof. Ziti Soumia</i>				
10:30 – 10:45	Coffee Break				

10:45 - 11:15	Invited Speaker 3: Prof. Mohammad Gouse Galety SIUT, Samarkand, Uzbekistan “Medical data security and effective organization using integrated Blockchain principles in AI-based healthcare 6.0 infrastructures” <i>Moderator: Prof. Imane Chlioui</i> Amphi Ibn Haytam		Invited Speaker 4: Prof. Ayoub Karine LIPADE, Université Paris Cité, France “Green Deep Learning via Knowledge Distillation for Efficient Vision and Vision-Language Models” <i>Moderator: Prof. Khalid Minaoui</i> Amphi Belmahi		
11:15 – 12:30	<u>Session I.204: Room 1</u> <u>Session Chair:</u> Prof. Safae Cherdal Prof. Acim btissam	<u>Session I.205: Room 2</u> <u>Session Chair:</u> Prof. Ahmed ZELLOU Prof. ZITI SOUMIA	<u>Session I.103: Room 3</u> <u>Session Chair:</u> Prof. Mourad Ouadou Prof. Issam bouganssa	<u>Session I.503: Room 4</u> <u>Session Chair:</u> Prof. Mouna Berquedich Prof. OUACHA Ali	<u>SS SSC4.0: Room A</u> <u>Session Chair:</u> Prof. Yasmina Ed-daryi Prof. Yassine El Mendili
12:15 – 14:00	Lunch Break				
14:00 – 14:45 Amphi Belmahi	Keynote Speaker 6: Prof. Ayman S. Mosallam University of California, Irvine (UCI), USA “RENEWING THE FUTURE: HOW RECYCLED PLASTICS INSPIRE A CIRCULAR ECONOMY” <i>Moderator: Prof. Kuolin Hsu</i>				
14:45 – 16:00	<u>Session I.206: Room 1</u> <u>Session Chair:</u> Prof. Safae Cherdal Prof. Acim btissam	<u>Session I.207: Room 2</u> <u>Session Chair:</u> Prof. Ahmed ZELLOU Prof. ZITI SOUMIA <u>Session I.208 Room 5</u> <u>Session Chair:</u> Prof. JIBOUNI AYOUB Prof. Rouijel Awatif	<u>Session I.209: Room 3</u> <u>Session Chair:</u> Prof. Mourad Ouadou Prof. Issam bouganssa	<u>Session I.210: Room 4</u> <u>Session Chair:</u> Prof. Mouna Berquedich Prof. OUACHA Ali	<u>Session I.211: Room A</u> <u>Session Chair:</u> Prof. Yasmina Ed-daryi Prof. Yassine El Mendili
16:00 – 16:15	Coffee Break				
16:15 – 17:00 Amphi Belmahi	Keynote Speaker 7 : Prof. Bai Kendrick Blyden Chief Technology Officer, IEEE senior life member, USA “From Power Systems to Intelligent Systems: Enriching AI Through Energy Physics Data” <i>Moderator: Dr. Brahim El Bhiri</i>				
17:00 – 18:15	<u>Session I.212: Room 1</u> <u>Session Chair:</u> Prof. Safae Cherdal	<u>Session I.213: Room 2</u> <u>Session Chair:</u> Prof. Acim btissam	<u>Session I.214: Room 3</u> <u>Session Chair:</u> Prof. Belmajdoub Hanae	<u>Session I.215: Room 4</u> <u>Session Chair:</u> Prof. Mourad Ouadou	<u>Session I.216: Room A</u> <u>Session Chair:</u> Prof. ZITI SOUMIA
21:00 – 23:00	GALA DINNER				

DAY 3: Friday 17th July 2025 (GMT+1)

8:30 – 9:00	Registration				
9:00 – 10:10	<u>Session R.201:</u> Room 1 <u>Session Chair:</u> Prof. Ahmed EL-YAHYAOU Prof. Safae Cherdal	<u>Session R.202:</u> Room 2 <u>Session Chair:</u> Prof. HAMIDA Soufiane Prof. Acim btissam	<u>Session R.203:</u> Room 3 <u>Session Chair:</u> Prof. Samia El Haddouti Prof. Mourad Ouadou	<u>Session R.204:</u> Room 4 <u>Session Chair:</u> Prof Prof. Belmajdoub Hanae Prof. OUACHA Ali	<u>Session R.205:</u> Room A <u>Session Chair:</u> Prof. Ziti Soumia Prof. Mouna Berquedich
10:10 – 11:20	<u>Session R.206:</u> Room 1 <u>Session Chair:</u> Prof. Ahmed EL-YAHYAOU Prof. Safae Cherdal	<u>Session R.207:</u> Room 2 <u>Session Chair:</u> Prof. HAMIDA Soufiane Prof. Acim btissam	<u>Session R.208:</u> Room 3 <u>Session Chair:</u> Prof. Samia El Haddouti Prof. Mouna Berquedich	<u>Session R.209:</u> Room 4 <u>Session Chair:</u> Prof Prof. Belmajdoub Hanae Prof. OUACHA Ali	<u>Session R.210:</u> Room A <u>Session Chair:</u> Prof. Ziti Soumia Prof. Mouna Berquedich
11:20 – 11:30	Coffee Break				
11:30 – 12:40	<u>Session R.211:</u> Room 1 <u>Session Chair:</u> Prof. Ahmed EL-YAHYAOU Prof. Safae Cherdal	<u>Session .R212:</u> Room 1 <u>Session Chair:</u> Prof. HAMIDA Soufiane Prof. Acim btissam	<u>Session R.213:</u> Room 3 <u>Session Chair:</u> Prof. Samia El Haddouti Prof. Mouna Berquedich	<u>Session R.301:</u> Room 4 <u>Session Chair:</u> Prof. Brahim El bhiri Prof. Khalid Guissi	<u>Session R.401:</u> Room A <u>Session Chair:</u> Prof. Yasmina Ed-daryi <u>Session R.501:</u> Room 5 <u>Session Chair:</u> Prof. Ouahbi Younesse Prof. Younes Karfa Bekali
12:40 – 13:00	CLOSING				

Sessions Normales

Sessions Normales - In-Person

Session Id	Session Title	Paper ID	Authors	Paper Title
I.101	Smart Economy, Governance & Predictive Urban Intelligence	0074	Fatima El Yousfi and Mohamed Fihri	Smart Digital Marketing: How the Digital Revolution Transforms Business Models: An Application of the GTAP and SVAR Model Adapted to the Smart Economy
		3009	Mohammed Ouaouicha, Anouar Riadsolh and Hamid Ez-Zahraouy	Public-Private Partnerships and Digital Transition for Smart and Sustainable Cities: An International Comparative Study Applied to the 2030 World Cup in Morocco
		3160	Hajar El Kortbi and Mohammed Ben Amar	Impact of Social Media Post Formats on Customer Experience in Morocco: A Mixed-Methods Approach
		9684	Azeddine Yacobi, Allal Amri, Mohamed Rakiai, Hamza El Baraka and Abdellali Fadlallah	A Hybrid Deep Learning and Causal Machine Learning Framework for Tourism Demand Analysis: Evidence from AFCON
		0689	Mounia Aarich	Prediction Study of Wildfire Risk Based on The Artificial Intelligence Models
I.102	AI for Education, Adaptive Learning & Embedded Intelligence	0754	Aya Loudiyi Lamghafri, Hajar Chnok, Ahmed Chebli Alami, Karim El Bouchti and Soumia Ziti	Adaptive and Personalized Systems for Academic Learning: Current Approaches to Knowledge Representation, Learner Modeling, and Strategies for Personalization and Adaptation
		6796	Fatima Ezzahra Errogui, Oussama Hamal, Hamid Khalifi and Faissal Ouardi	Towards Intelligent Adaptive Learning: Integrating Generative AI for Dynamic Educational Content
		7800	Nouhaila El Ghordani and Imane Lmati	Artificial Intelligence and Predictive Analytics in personalized Learning: A Systematic Review
		9999	Anas Assoufi, Brahim El bhiri	TinyML on the Wing: A Survey of Low-Power On-Device Intelligence for Unmanned Aerial Vehicles
I.103	Sustainable Infrastructure, Water, Energy & Precision Agriculture	1552	Insaf Faraj	A Trustworthiness Evaluation Framework for Black-Box Deep Learning Models in Hydrological Rainfall-Runoff Modeling
		4261	Zakaria Mairy	From Detection to Diagnosis Natural Language Explanations for Water Network Anomalies
		4311	Rym Nassih, Ilhame Ait Lbachir, Fatima Zahra Didast and Kawtar Zerhouni	Interpretable Anomaly Scoping for Sustainable Cities: A Patient Rule Induction Approach to Household Energy Monitoring
		7856	Hicham Atatri, Rajaa Saidi and Younes Karfa Bekali	An Ecological Digital Twin Framework for Precision Agriculture
		6219	Khalid Aouad	Panorama of Water Supply Chains Concepts: State-of-the-Art and some future trends of research
		5945	Ikram Bagri, Achraf Touil and Ahmed Mousrij	The Energy-Dispersion Index: A Unified Metric for Automated Variational Mode Decomposition in Bearing Fault Diagnosis

Session Id	Session Title	Paper ID	Authors	Paper Title
I.201	AI for Education & Inclusive Learning	0214	Doha Boukhanni, Soumaya Houari and Salma Mouline	Intelligent E-Learning Framework Leveraging Transformer-Based NLP Models for Semantic Assessment and Adaptive Feedback
		0943	Soumia Largou and Abdellah El Boubekri	Perception vs Performance: Closing the Gap in Students' AI Prompting Skills
		4195	Haitam Tolab, Yassin Zaoui, Karima Salah Eddine and Soumia Ziti	Artificial Intelligence and Multimodal Analysis as a Lever for the Educational Inclusion of Deaf People in Morocco
		4891	Kaoutar El Handri and Sanae El Ahrach	BASIRA: An Intelligent, Inclusive Platform for Personalized Reading Assistance Using Artificial Synesthesia and Multi-Criteria Recommendation Algorithms
		5153	Zakaria Izouaouen, Nassim Kharmoum and Soumia Ziti	ARCampus: A Multilingual Mobile Augmented Reality Platform for Enhanced Academic Learning and Cross-Domain Educational Adaptation
I.202	Learning Analytics, Higher Education & Knowledge Systems	6012	Khalid Essaadani, Soumia Ziti and Karima Salah-Eddine	Beyond Readability and Informativeness: A Multi-Rater Evaluation Approach for Arabic IT Text Simplification in Education
		6481	Ilham Glissi, Kamal Anoune, Rachid Bannari and Youssef Jouali	AI Driven Framework for Quality Management and KPI Optimization in Higher Education
		6729	Youssef Amzoug, Soufiane Hamida and Soumia Ziti	Beyond the Black Box: A Comparative Study of Neuro-Symbolic vs. Pure-Neural Architectures for Private Multimodal Cognitive Monitoring in Distributed EdT
		9961	Kawtar Achibat, Mohamed Yassine Achibat and Anouar Riadsolh	A Bibliometric Analysis of Research on Artificial Intelligence, Affective Computing, and Student Engagement in Advanced Learning Environments.
		8570	Asmae Melliani and Mohammed Rziza	A Comparative Study of AI-Based Approaches for Resume-Job Matching in Recruitment Systems
I.203	Medical Imaging & Healthcare AI I	1030	Khadija Amadoun, Chaïmaâ Kissi and Tarik Boujiha	Adapting Graph-QUBO Segmentation to Dermoscopic Images with Superpixels and Appearance-Aware Unary Potentials
		1304	Youssef Chigane, Mounia Mikram and Maryem Rhanoui	Efficient Ordinal Grading in Medical Imaging: Lightweight Architectures and Ordinal Losses for Diabetic Retinopathy
		2527	Zakaria Loulid, Fouad Issouani, Ayyad Maafiri and Soumia Ziti	A Deep Learning-Based Mobile Application for Multi-Class Skin Lesion Detection and Classification Using Transfer Learning
		3086	Bilal El Mghabar and Mohammed Rziza	Gradient-Enhanced CNN with Iterative Dataset Refinement for Skin Lesion Classification
		4631	Doha Chemaou and Leila Essannouni	SDT-CNN Ensemble: A Novel Stacking Framework for Overfitting Reduction in Pneumonia Classification

Session Id	Session Title	Paper ID	Authors	Paper Title
I.204	Healthcare AI, Rehabilitation & Clinical Intelligence II	0672	Abdelaziz Mettahri, Sokaina El Khamlichi, M'Barek El Haloui and Badia Ettaki	Improving Alzheimer's Disease Detection from Speech with NLP Preprocessing and PSO Optimization: The Impact of Stop Words
		0916	Othmane Elazri, Hanae Belmajdoub and Khalid Minaoui	When Silence Speaks: Seven Features Are All You Need for Detecting Alzheimer's Disease Through Temporal Speech Dynamics and Interaction Patterns
		1456	Fatima Ezzahra Bouaaza, Said Charfi, Omar Bamaarouf and Mohamed Elansari	The Rise of Transformers in Wireless Capsule Endoscopy: A Comparative Survey of State-of-the-Art Methods
		1698	Salima Barhaoui, Fatima Ezzahrae Elghatous, Azhar Hadmi and Amina Radgui	Home-Based Right Upper-Limb Rehabilitation Using Serious Games and AI Exercise Performance Feedback
		8804	Abdelhak El Moutaouakkil, Samir Bara and El Houssaine El Rhaleb	Tumor Extraction Using a Hybrid KNN-Active Contour Method
I.205	Computer Vision, Biometrics & Image Understanding	0595	Ouahbi Younesse, Kihel Laila, El Ghazouani Noura, El-Mjahda Aya, Saime Halima, El Hachimi Hajar, Ziti Soumia and Braicha Fatima	Enhancing Independent Mobility and Social Integration for Visually Impaired Individuals using YOLOv8: A Campus-Centric Approach
		3280	Maha Zerroug	Automatic and Robust Enrichment of Heterogeneous Biometric Datasets via Vision-Language Models and Retrieval-Augmented Generation
		3382	Chifaa Sebbane	BiTRA-DAGLU: Bilinear Token-Region Attention and DAGLU-Based Decoding for Image Captioning
		7933	Khaoula El Ater, Imane Aaniba, Nawal Alioua, Othmane Alaoui-Fdili and Abdesadik Bendarag	A Comparative Study of Classical, Deep Learning, and Transformer Models for Facial Emotion Recognition on the CK+ Dataset
		8090	Omar Arjafellah, Abdellah Yousfi and Azhar Hadmi	A CTC Based Arabic Handwritten Text Line Recognition System: Benchmark on the KHATT Dataset
I.206	LLMs, Semantic Retrieval & Software Engineering	1535	Chebli Ahmed, Aya Loudiyi Lamghafri, Hajar Chnok, Abdeslam El Harraj and Soumia Ziti	An Embedding-Based Semantic Retrieval Framework for Audiovisual Media Archives
		1897	Salah-Eddine Elmenyiy, Abdelali Elmounadi, Mohammed Salihoun and Naoual Berbiche	An LLM-as-a-Judge Approach to Optimizing KDM-Based Test Units Generation
		2437	Khalid Boussaroual and Maryam Radgui	LLMs and Agentic Systems in Software Requirements Engineering: A Systematic Mapping Study
		3658	Choura Souihla, Safae Cherdal and Noussaiba Daali	Schema Matching with Large Language Models: Synthetic Data Generation and Annotation
		9196	Badr El Khalyly, Younesse Ouahbi, Meryem Ennakri and Soumia Ziti	LLM2DW: An LLM-Driven Algorithmic Engine for Automated OLTP-to-OLAP Star Schema Transformation

Session Id	Session Title	Paper ID	Authors	Paper Title
I.207	Cybersecurity, Forensics & Risk Management	2565	Wiam Watik, Ouacha Ali and Ahmed El-Yahyaoui	Cross-Platform Forensic Analysis Framework for Hybrid Mobile Ecosystems
		2927	Yousra Essekkat, Mohammed Errais and Laila Fetjah	Adaptive Cyber Risk Management in Moroccan Banking: A Multi-Agent Architecture Based on ISO 27001
		5865	Younes Elkhammassi, Ali Ouacha and Ahmed Elyahyaoui	A Review of AI-Triggered Forensic Readiness and Blockchain Against Ransomware Attacks
		6811	Nadia Qoudhadh, Mostapha Zbakh, Yassir Samadi and Elmehdi Bendriss	Customizing GRC Platform to Moroccan Cybersecurity Regulations: A Practical Approach to Compliance, Risk, and Audit Management
		8873	Mouhsine Chaoui and Soumia Ziti	Malware Detection and Classification using machine learning - A Narrative Review
I.208	Blockchain, Secure AI & Intrusion Detection	7941	Mouad Lamnaya, Soumia Ziti, Siham Lamzabi, Mouhsine Chaoui and Hicham Labrim	Quantum Intelligent Agents for the Monitoring and Securing of Cryptographic Channels
		8331	Adnane Touiyate, Chaïma Kissi and Tarik Boujiha	Attention-Guided Siamese Representation Learning for Cyber Anomaly Detection Using Mahalanobis Distance
		8901	Mohamed Aghroud, Mohamed Oualla, Abdeslam Jakimi and Lahcen Elbermi	Comparative Study of Layer-2 Blockchain Protocols and their Adaptation in IoT
		9489	Mahmoudi Mohamed, Azhari Mourad, Ziti Soumia and Mouhsine Chaoui	Intrusion Detection Systems using Ensemble Learning: A Feature Selection and Stacking Approach
		9943	Ismail El Gaabouri, Youssef Alaoui and Brahim El Bhiri	A novel perception of Blockchain integration for securing real estate ownership transactions
I.209	IoT, Edge/Fog, Embedded Systems & Smart Cities	3758	Youssef Elmnisri and Laila Fetjah	Smart Cities: A Comprehensive Review of IoT, Vulnerabilities, and Attacks.
		4974	Badr El Khalyly, Younesse Ouahbi, Meryem Ennakri and Soumia Ziti	HYQP: A Lightweight Hybrid Query Protocol Combining Regex Topic Routing, Schema Governance and Payload Predicates for IoT Pub/Sub
		5084	Nouhaila Aziach, Mourad Ouadou and Khalid Minaoui	A Latency-Aware Task Offloading Algorithm for Edge-Fog-Cloud Architectures in VANET Environments
		6132	Mostafa Barah and Mohamed Abouzahir	Experimental Benchmarking of SLAM Algorithms for Embedded Systems in ROS 2
		5548	Oumaima Hassan	Beyond Randomness: The Social-Thermology of Emperor Penguins in Large-Scale WSN Optimization
I.210	Wireless Antennas, 5G/6G & RF Intelligence	3795	Aya Yadaoui	AI-Based Automatic Synthesis of Fractal Antennas: Review
		7546	Etayeb Zakry, Nouhayla El Anzoul and Younes Karfa Bekali	Machine Learning Techniques for Antenna Design and Optimization in 5G, 6G, and IoT Systems: A Review
		9506	Charaf Orhanou, Nouhayla El Anzoul and Younes Karfa Bekali	Design and Simulation of a Frequency-Reconfigurable Microstrip Patch Antenna Covering the 2.4 GHz ISM Band and the 5.15 GHz WLAN Band
		9615	Nouhayla El Anzoul, Younes Karfa Bekali and Khalid Minaoui	Machine Learning-Based Prediction and Optimization of Microstrip Patch Antenna Parameters for Sub-6 GHz Applications

Session Id	Session Title	Paper ID	Authors	Paper Title
I.211	Optimization, Energy Forecasting & Cloud Intelligence	1298	Hind Bouifalioune	An Integrated Mathematical Model for the Unrelated Parallel Machine Scheduling Problem and the Electric Vehicle Routing Problem with Time Windows
		5406	Mitra Khezli, Mohammed Ayoub Alaoui Mhamdi and Madjid Allili	A Hybrid Deep Stack Model for Multivariate Cloud Resource Demand Forecasting
		9747	Safaa Kahil, Omar Jellouli and Mohamed Fihri	Explainable Hybrid Attention-LSTM and EBM Framework for Solar Energy Forecasting
		9975	Nour-Eddine Mounni	Cooperative EV Charging Assignment via Multi-Agent Reinforcement Learning: QMIX vs. Independent Q-Learning under Urban Traffic Uncertainty
		8760	Tanoga Médard Doukoua Yandah	Low-power, adaptive, and forgetting-resistant continuous learning for updating AI models
I.212	Agriculture, Ecology, ADMET & Sustainability AI	0552	Halima Boukbir, Ahmed Drissi El Maliani and Brahim Alibouch	M-ViT: A Novel Multiscale and Multiresolution Feature Integration in Vision Transformers for Plant Disease Detection
		4085	Meryem Ennakri, Badr El Khayly, Younesse Ouahbi, Mohammed Dakki and Soumia Ziti	Predicting Species Preferences Using the XGBoost Algorithm: An Ecological Study
		8393	Salma El Hamdi, Outhman Abbassi, Nassim Kharmoum, Soumia Ziti and Hamid El Amri	Evolution and Emerging Trends of Deep Learning for ADMET Prediction in Drug Discovery: A Bibliometric Analysis
		8510	Nouhaila El Aissi, Saloua El Morabite, Amine Badi, Hamza El Baraka and Abdellali Fadlallah	Modeling Regional Subjective Well-Being in Morocco Using Multimodal Deep Learning: Prediction, Explainability, and Spatial Disparities
I.213	Sports Analytics, Marketing & Recommendation Systems	0951	Hasna Zini	Digital Customer Experience Traceability in Moroccan Data-Driven Marketing: A Conceptual Framework with an Exploratory Empirical Illustration
		0987	Soumaya El Foukahi, Kaoutar El Handri, Mohamed El Ghamry and Hassan Echoukairi	Unsupervised Midfielder Role Profiling Across Europe's Top Five Leagues: A Combined K-Means and Gaussian Mixture Model Approach
		6560	Doha Lefhal, Assia El Motaoukel, Abdeslam El Harraj, Soumia Ziti and Ali Ouacha	Factors Influencing Player and Ball Detection in Football Videos: A Comparative Analysis
		6703	Lamya Makea, Nazih Marouane, Ayoub Lahmidi and Khalid Minaoui	On the Limits of Modern Collaborative Filtering Models Under Extreme Data Sparsity
		9178	Mouad Choukhairi, Ouarda Benhoummad, Sara Tahiri, Oumaima Chentoufi and Youssef Fakhri	EnhancedSAGE: A Heterogeneous Graph Neural Network for Bi-Directional Job Recommendation

Session Id	Session Title	Paper ID	Authors	Paper Title
I.214	Bibliometrics, Language Technologies & Digital Innovation	9708	Assia El Motaoukel, Doha Lefhal, Abdeslam El Harraj, Nassim Kharmoum and Soumia Ziti	A Comparative Study of Machine Translation Approaches for Minority Languages with Emphasis on Amazigh
		9667	Mohamed Oulma, Karim El Bouchti, Loubna Zrimi, Meryem Ouali and Soumia Ziti	Mapping the Research Landscape of Sentiment-Aware Intelligent Trading and Portfolio Optimization in Stock Markets: A Bibliometric Analysis
		8501	Loubna Meziane, Soumia Ziti and Wafae Abbaoui	A Bibliometric Analysis of Symbolic Approaches in Explainable Artificial Intelligence: Mapping the Intellectual Landscape and Emerging Trends
		9988	lhssane Marzak and Mohamed Adrdour	Blockchain as a Trust Mediator for SME Internationalization: A Conceptual Framework for Emerging Economies
		4392	Aymane Fadili, Mohamed-Amine Chadi and Hajar Mousannif	Automatic Speech Recognition: Evolution, Architectures, and Persistent Challenges
		9965	Charmarke Moussa Abdi, Fatima-Ezzahraa Ben-Bouazza and Ali Yahyaouy	AIWO-HC: A Hybrid LLM- and BPMN-Based Architecture for Healthcare Claims Automation in Resource-Constrained African Settings
I.401	Smart Construction, Digital Engineering and Sustainable Infrastructure	2832	Hamza Karfa Bekali and Sahar El Kasmi	Review of Drone-Based Photogrammetry in Geological Studies
		4440	Alae Sbayji, Soumia Ziti and Ouacha Ali	Towards Automated Detection of Non-Compliant Constructions: A Pipeline Combining BIM, GIS, and Artificial Intelligence
		6217	Ikram Messaoudi	Review on leachate treatment methods in Morocco: effectiveness and limits
		7324	Yasser Tajmout, Safae Merzouk and Aniss Moumen	AI-Enabled BIM for Optimized Civil Engineering Project Delivery
		7773	Alae Ben Moummad and Nouzha Lamdouar	Identifying and Addressing Organizational Barriers in Lean Construction: A Scoping Review
I.501	Smart Energy, Sustainability & Environmental Systems	0832	Asmae Lakhili, Rachid BANNARI and Zouhir LAKHILI	Digital Twin framework using surrogate modeling on a hybrid energy system
		1426	Khawla El Houssaini, Khaoula Lagrini and Mohamed Sinan	AI Assisted Environmental Planning for Sustainable Industrial Parks: The Case of Jorf Lasfar, Morocco
		4735	Ouidir Hamid, Berqia Amine and Aouad Siham	An Advanced Smart Aquaculture System based on nodes density to reduce risk factors (ASMAQUADER)
		4181	Hamza Benhammou, Kamal Anoune and Abdelali Tajmouati	Ascertaining the LFP battery parameters using Particle Swarm Optimization for EVs
		9968	Kerrou Omar, mhamdi hicham, Elbhiri brahim, Abdelkarim El Khantach, El fellah younes, sebari Imane, El yaagoubi Reda and Guissi khalid	Prototype-scale Design and PV-Thermal Energy Balance of the STDSCWG/SIDEMES Evaporation-Condensation Desalination System
		3935	Meryem Boutbagha and Laila El Abbadi	Order prioritization and selection for batch sequencing recovery in Multi-Model Assembly Lines: A use study with a greedy order-selection algorithm
I.502	Industry 4.0, Robotics, Maintenance & Industrial Monitoring	5086	Khira Belgada and Laila Elabbadi	A Dual-Layer Blockchain Architecture for Real-Time Industrial Traceability in Industry 4.0 Supply Chains: Design, Analytical Modelling, and Performance Validation
		5661	Yassire Ammouri, Rajaa Saidi and Younes Karfa Bekali	Time Series Foundation Models: Architectures, Adaptation Strategies, and Applications to Predictive Maintenance
		7784	Mouna El Wafi	Sustainable Autonomous Robotics in Industry 4.0: A Hybrid Q-learning and SLAM Approach
		9753	Hinde Laghfiri and Nouzha Lamdouar	Periodic Trenches as an Attenuation Measure for Ground-Borne Vibrations.
I.503	AI for Supply Chains, Forecasting	7650	Fatima Zahra Hilal and Abdelhak Yaacoubi	Digital transformation in the era of AI: A lever of competitiveness and sustainability development for Moroccan's Supply chains

	& Industrial Decision Support	9981	Asmae Abouaomar, Samah Elrhanimi and Youssef Regad	Toward Adaptive Inventory Management: A Critical Review of Traditional and Emerging MRP Approaches and an Analysis of Safety Stock Calculation Models
		1386	Ibtissam Chabba, Omar Jellouli and Mohamed Fihri	Robust SVR Forecasting under Data Anomalies: Integrating Extreme Value Theory and Imputation Techniques with an Application to Morocco's Phosphate Exports

Sessions Normales - Remote

Session ID	Session Title	Paper ID	Authors	Paper Title
R.201	IoT, Embedded Systems & Hardware I	0238	Joairia Lafhal and Yasser El Khamlichi	From Ontology to Action: A Formal Framework for Autonomous Context Migration in Nano IoT Systems
		1538	Abderahman Kriouile, Oussama El Gannour, Mohammed Moustaid, Soufiane Hamida and Bouchaib Cherradi	TinyML-Guided Differential Evolution for Real-Time Inverse Kinematics in Embedded Gimbal Systems
		1803	Hicham Boudlal	Towards Robust CSI-Based WiFi Sensing in Real-World Environments: A Systematic Analysis and Experimental Framework
		0487	Sayyouri Adil	Hardware implementation of a zero-watermarking system on an embedded FPGA
		0738	Ali Berchane, Mohammed Bougrine and Ahmed El-Yahyaoui	A Protocol for System-on-Chip Security Using Tiny Generative Artificial Intelligence (Tiny-Gen-AI-Sec)
R.202	IoT, Embedded Systems & Hardware I	4844	Sayyouri Adil	Embedded Implementation of the QIRMT Transform for Image Reconstruction on Raspberry Pi
		5566	Issam Chajari	Design and optimization of a High Directivity Patch Antenna for Super High Frequency Telecommunication Systems
		7071	Chaïmaâ Kissi	3.5 GHz 2x1 MIMO Antenna operating at Sub-6GHz band for Cellular-based Communications
		8354	Lazaar Zakaria	Design of a 915 MHz RFID Tag Antenna for On-Metal Applications
		9761	Chaïmaâ Kissi and Mohamed Nabil Srfi	Implanted and Wearable Antennas operating at 2.4 GHz ISM band for Biomedical Applications
R.203	Cybersecurity, Privacy & Trust I	0333	Mohamed Reda Belmahi, Ismail Bensassi and El Mokhtar En-Naimi	Beyond the Profile: Detecting Fake Social Media Users Through Behavioral Features and Gradient Boosting
		1159	Amal Aouladali, Souad Alaoui, Abdelhalim Hnini, Achraf Abdelfadel and Imane Chlioui	A Systematic Mapping Study on Security, Blockchain, and IoT in E-Learning: Authentication Mechanisms, Countermeasures, and Hybrid Architecture
		1654	Mohammed El-Aji, Yassine Sembati, Siham Lamzabi, Yassine Zaoui Seghroucheni and Soumia Ziti	Narrative review on Large Language Models for Software Security Analysis: Foundations, Challenges, and Perspectives
		1919	Abdelilah Hssaini, Imane Chlioui and Maryam Radgui	Towards an Interactive AI-Powered Intrusion Detection System
		1953	Achraf Maker, Elhoussaine Ziyati and Hajar Dahhak	A Focused Structured Mapping of Privacy-Preserving Intrusion Detection in Big Data and IoT Environments
R.204	Cybersecurity, Privacy & Trust II	3834	Nizar El-Kebir, Driss Riane, Yassine Zaoui and Soumia Ziti	Cybersecurity Attacks Targeting Financial Cloud Infrastructures: A Comprehensive Bibliometric Analysis
		3958	Khalil El-Jlaidi, Chaymae Kalli and Soumia Ziti	Blockchain-Enabled Federated Learning for Trustworthy and Decentralized Artificial

				Intelligence: A Systematic Review and Research Outlook
		4536	Fadwa Bezzazi and Dounia Lotfi	Impact of Dependency Density on Firewall Rule Ordering Optimization using Discrete Cuckoo Search
		4694	Nouha Amimar, Soumia Ziti, Karim Elbouchti and Khansae Letrach	AI Driven Privacy Preserving Techniques in Cybersecurity: A Comparative Study of Federated Learning and AI-driven Adaptive Encryption
		4899	Mohammed Moustaid, Abdelaziz Daaif, Abderahman Kriouile and Soufiane Hamida	From Machine Learning to Large Language Models: A Survey on AI-Driven Vulnerability Classification
Session ID	Session Title	Paper ID	Authors	Paper Title
R.205	Cybersecurity, Privacy & Trust III	5529	Aya Tizguine and Kaoutar El Handri	Efficient and Adversarial Robust Malware Detection in Critical Healthcare Systems with Quantized CNN
		8790	Chaima Ehbali, Ali Ouacha, Ahmed El Yahyaoui and Soumia Ziti	Quantum-Safe Mobile Payment Security: A Narrative Review
		9005	Anass Ait Sghir, Nabila Zrira, Issam Elafi and Ibtiham Benmiloud	Deepfake Detection Using Deep Learning on Video-Based Benchmark Datasets
		9140	Khansae Letrach, Karim El Bouchti, Nouha Amimar and Soumia Ziti	A Comparative Study of LLM-Agent Pipelines for End-to-End Automated Vulnerability Detection, Explanation, and Patch Generation
		9491	Mehdi Kmiti	Lightweight Static Malware Detection Using Optimized Section-Level Features from Portable Executables
R.206	AI, NLP & Knowledge Systems I	2183	Rabia Rachidi, Mouaad Errami, Mohammed Jebbari, Soufiane Hamida, Bouchaib Cherradi, Hassan Silkan and Soumia Ziti	BERT-Based Ensemble Learning for Robust Social Media Hate Speech Detection
		2907	Sara Retal, Nassim Kharmoum, Souad Najoua Lagmiri and Soumia Ziti	A Visual Approach to Graphical User Stories Diagram in Agile Software Development
		3327	Hamza Abdelmalek, Zakaria Babaalla, Lamya Benaddi, Charaf Ouaddi and Abdeslam Jakimi	Architectural Conformance Checking with Large Language Models for Clean Architecture
		3785	Ikram Adouz and Mohamed Ghailani	A Systematic Literature Review on Artificial Intelligence in Digital Marketing Strategies
		4224	Zakaria El Fakir, Oussama Kaich, Omar Zahour, Sanaa El Filali and El Habib Benlahmar	Cascaded versus Unified Speech Interaction Architectures for Smart Education: A Comparative Study
R.207	AI, NLP & Knowledge Systems II	4303	Khadija Benjilali, Hanae Cherradi, Asmaa Elasri, Soufiane Hamida, Soumia Ziti, Bouchaib Cherradi and Omar Bouattane	FairRAG-GenRank: An Explainable Retrieval-Augmented Generative Framework for Fair Candidate Ranking
		4358	Najlaa Maimouni, Soumia Ziti and Yassine Zaoui Seghroucheni	BIBLIOMETRIC ANALYSIS OF MICROLEARNING 2014-2024
		4898	Aicha Zizoune, Karima Salah-Eddine, Soumia Ziti and Asmae Zizoune	SignVLM: Real-Time Gloss-Free Sign Language Recognition via Frozen Vision-Language Model Adaptation
		5899	Mohammed Chibi, Karim Elbouchti, Imane Rafiq and Soumia Ziti	A Comparative Study of Business Intelligence Dashboards and Agentic AI for Smart Governance Systems
		6300	Oussama Kaich, Zakaria El Fakir, Sanaa El Filali, Omar Zahour and El Habib Benlahmar	Towards Trustworthy AI for Historical Scene Reconstruction: Explainability, Bias Mitigation, Provenance, and Heritage Fidelity
R.208		6578	Salah Eddine El Hajhouj, Mohamed Dakki, Soumia Ziti,	A systematic study of iterative algorithm for missing data imputation: use case of EM

	AI, NLP & Knowledge Systems III		Asmae Zizoune and Abdelhak Zoglat	algorithm with application on both simulated & real data
		6799	Mustapha Bachiri, Ayoub Belkadi and Aya Dennoune	Churn Prediction to Churn Prevention: A Decision-Oriented Framework Integrating Explainable and Predictive AI to Influence Customer Intentions in Insurance
		7951	Asmaa Bazighe	BEYOND AUTOMATION: A CRITICAL REVIEW OF EMERGING GAPS IN AI-DRIVEN RECRUITMENT SYSTEMS
		8233	Hajar Chnok, Aya Loudiyi Lamghfri, Ahmed Chebli Alami, Yassine Zaoui Seghroucheni and Soumia Ziti	Towards Intelligent Knowledge Management Systems: The Role of Artificial Intelligence
		8398	Mohamed M'Haouach, Houda Bouraqqadi and Hamza Alami	Enhancing Multi-Dialect Arabic Sentiment Classification Using a CNN-BiLSTM Hybrid Architecture with MARBERT Contextual Embeddings
Session ID	Session Title	Paper ID	Authors	Paper Title
R.209	Healthcare & Biomedical AI I	1459	Bahae Eddine Halim, Kaoutar El Handri, Chaimaa Moumad, Francis Fezeu and Soumia Ziti	Privacy-Preserving Edge Intelligence: A Lightweight Federated TCN-BiLSTM Framework for Real-Time ECG Anomaly Detection
		1961	Mohammed Amine Bouqentar, Driss Lamrani, Mohamed Touil, Soufiane Hamida, Cherradi Bouchaib, Soumia Ziti and Abdelhadi Raihani	Cardiac Segmentation Diagnosis using Left Ventricular Imaging and deep learning techniques
		3572	Ghlana Amara, Ouahbi Younesse, Soumia Ziti and Abderrahmane Ez-Zahout	A Hybrid Clinical Decision Support Architecture for Acenocoumarol (Sintrom) Dose Adjustment Using INR Monitoring
		3727	Fatiha Lamaallaoui, Sara Laghmati and Dounia Lotfi	Revealing Structural Signatures of Brain Tumors in MRI Using Graph Theory and Topological Data Analysis
		4223	Ghassane Matloub, Samira Douzi and Khadija Douzi	A Comparative Study of Deep CNN Architectures for Breast Lesion Classification: Performance, Efficiency, and Explainability Analysis
R.210	Healthcare & Biomedical AI II	7168	Oussama El Gannour, Abderahman Kriouile, Soufiane Hamida, Bouchaib Cherradi and Soumia Ziti	Explainable AI in Dermatological Imaging: A Critical Survey of Methods, Gaps, and Pathways to Clinical Translation
		7411	Hamza El Morabit, Outhmane Abbassi, Wajih Rhalem and Soumia Ziti	Graph-Based Deep Learning for 3D Medical Image Segmentation: A Bibliometric Analysis
		9216	Souad Bourik, Kebira Azbeg, Said Jai Andaloussi and Ouail Ouchetto	A Comparative Study of Machine Learning Algorithms for Bipolar Disorder Classification
		9825	Asmaa Elasri, Khadija Benjilali, Hanae Cherradi, Soufiane Hamida, Bouchaib Cherradi, Soumia Ziti and Omar Bouattane	A Survey and Conceptual Framework of Multimodal Large Language Models for Early Autism Detection
		9970	Fouad Issouani, Ayyad Maafiri and Soumia Ziti	From Image Acquisition to Clinical Diagnosis: A Narrative Review of Computational Methods for Pulmonary Disease Detection
R.211	Data, Finance & Decision Systems	5077	Agrata Gupta, Sivakumar R and Arul Kumar Natarajan	Deep Learning Architectures for Cryptocurrency Forecasting: Evaluating GRU, LSTM, and Transformer Hybrids
		5378	Taha Oumoussa and Rajaa Saidi	Data Quality in Autonomous Distributed Databases: Data-Aware versus Data-Agnostic Approaches

		5428	Zainab Al Khlanji, Mohamed Fihri, Amal Mellouk and Abdelhadi Akharif	Joint Detection of Random Coefficient Variability and ARCH Effects in AR(1) Models using a Pseudo-Gaussian Approach with Application to Bitcoin Returns
		5621	Hassan Harchane, Karim Elbouchti, Marouane Hagouch, Chaimae Elasri, Fadwa Saoiabi and Soumia Ziti	MTF-RL: Dynamic Multi-Timeframe Selection via Cross-Attention Reinforcement Learning for Forex Trading
		6004	Meryem Lasaad, Abdelaziz Boukhalfa, Abdeslam Jakimi, Mohamed Oualla and Rachid Saadane	From Prediction to Coordination: A Survey of Tourist Flow Management Algorithms and the Blockchain Opportunity
Session ID	Session Title	Paper ID	Authors	Paper Title
R.212	Telecom, Energy & Economic Systems	3447	Hammad Lazrek, Sarra Zekaki, Lalla Omnia Sbai El Hassani, Hassan el Ferindi and Mohammed Zouiten	Collaborative UE–Network Energy Optimization using Multi-Agent Systems in 5G: A Deep Reinforcement Learning Approach
		8505	Badr Moulouade	Determinants of Renewable Energy Consumption in Africa: A Machine Learning Approach
		9718	Abdessamad Bahassou and Soumia Ziti	Integration of graph theory and artificial intelligence in economic systems A Bibliometric Analysis
		5950	Soufiane Hamida, Oussama El Gannour, Nouhaila En Najih, Abderahman Kriouile, Bouchaib Cherradi and Soumia Ziti	Benchmarking Generalist Large Language Models Against Classical Bioinformatics Tools: A Systematic Prompting Strategy Evaluation on Sequence Classification and Functional Annotation
		8756	Naoufal Rouky	3DGaussian Splatting for Pose-Agnostic Aerial Anomaly Detection: A Practical Guide for UAV-Based Infrastructure Inspection
R.213	Intelligent Data Analytics for Sustainable and Smart Systems	3528	Abderrahim Ait Ichou and Ali Ouacha	Benchmarking Machine Learning and Transformers for Sentiment Analysis of Moroccan Students' Feedback
		3639	Mohamed Amine Ouassil, Mohammed Jebbari, Mouaad Errami, Soufiane Hamida, Soumia Ziti, Bouchaib Cherradi and Abdelhadi Raihani	A Hybrid Deep Learning Approach for Time-Series Based Prediction of At Risk Students in MOOCs
		565	Luke Bradley, Rose Boyko and Lina Khaddour	The contribution of urban green spaces as a green urban solution to reductions in climate change - a high-resolution data case study from Scotland
		1011	Amrutha Vinukonda and Sara Amar	From Beijing to New Delhi: Comparative Analytics to Mitigate Ambient PM2.5 via Targeted EV Fleet Composition
		7031	Doha El Kalef, Bouchaib Cherradi, Hassan Silkan, Soufiane, Hamida and Soumia Ziti	Cross-Lingual Vehicle Plate Recognition Using Convolutional Super-Resolution and Unsupervised Domain Adaptation
R.301	Sustainable Energy Technologies and Smart Power Systems	0945	Fatna Bdaidi, Driss Yousfi and Ayoub Rahmouni	Processor In the Loop and Experimental Validation - Based Comparative Analysis of P&O and PSO MPPT Techniques.
		2021	Enda Yuliana and Lina Khaddour	EIA Delay as the Critical Barrier to Small-Scale Renewable Energy Development: Evidence from the UK
		8219	Amine El Houre, Driss Yousfi, Mohammed Chaker, Ayoub Rahmouni and Mohammed Bachiri	Analytical Modeling of a Phase-Shifted Full-Bridge DC-DC Converter in Discontinuous Conduction Mode for Light-Load, Constant-Voltage Battery Charging

		8579	Ayoub Rahmouni, Driss Yousfi, Lotfi Baghli, Amine El Houre, Fatna Bdai, Mohamed Bakhouya and Abdelilah Rochd	Comparative Analysis of AC and DC Coupling Topologies for Agricultural Microgrids in North Africa
		9834	Mohamed Ouhmad	Experimental study of an indirect solar dryer with natural convection under Moroccan climatic conditions
Session ID	Session Title	Paper ID	Authors	Paper Title
R.401	Smart Industry, Sustainable Systems and Digital Engineering	1325	Younes Alouan, Seif-Eddine Cherif, Badreddine Kchakech, Youssef Cherradi and Azzouz Kchikach	Predicting Concrete Compressive Strength Using Tuned Mul-ti-Layer Perceptron Neural Networks
		7727	Salma Tallaki, Mourad Abouelala, Abderahmane Kebe Sekoun and Faycal Mimouni	A digital twin framework for sustainable intralogistics 4.0: real-time coordination of material and energy flow
		9353	Wassima Moutaouakil, Soufiane Hamida, Bouchaib Cherradi, Abdelhadi Raihani and Soumia Ziti	GIS-Based Flood Susceptibility Mapping Using Machine Learning and Sentinel-2 NDWI Inventory: A Case Study of Tetouan, Northern Morocco
		2219	Moussa Abdoulhaidou Moussa, Hicham Behja, Hammadi Laghradat, Nora Baaalla and Hicham Medromi	Design, Modeling and Performance Evaluation of a Smart Medical Centrifuge for Biomedical Applications
R.501	Intelligent Systems, Digital Transformation and Industrial Innovation	2533	Zineb Bentassil, Anis Moumen, Hicham Boutracheh, Hajar Hanine and Anass Benabdelouahab	A Bibliometric Analysis of Industry 5.0 Integration in Engineering Education Research
		4919	Amazigh Salwa and Soumia Ziti	Cybersecurity in Manufacturing Systems and Smart Robotics in Industry 4.0: A Bibliometric Mapping (2016-2025)
		6161	Mohammed Chibi, Karim Elbouchti and Soumia Ziti	An Agentic Smart Dashboard for Predictive Health Governance: Design, Pilot Evaluation and Deployment Perspectives
		6249	Abdelilah Zadid, Soufiane Hamida, Tmiri Amal, Soumia Ziti and Bouchaib Cherradi	Representation Over Resampling: A Causal Lightweight Approach for IMU-Only UAV Fault Detection
		9028	Ghita Derfoufi	Digital technologies and logistics performance: The mediating role of audit in a data-driven SCOR model

Sessions spéciales

Special Session	Paper ID	Authors	Paper Title
Special Session: ARIXO	1423	Oumaima Smina and Jihane Gharib	Toward Distributed Flow Orchestration in Smart Factories: A Comparative Analysis of Centralized Architectures and Distributed Systems
	1914	Mouad Danane, Abderrahim Bouzid, Abdelmajid El Ouadi and Younesse Ouahbi	AdaptAR-Maint: An Adaptive Augmented Reality Framework for Skill-Aware Maintenance Guidance Integrating Real-Time Cognitive Load Estimation
	2561	Jalila Mounaji, Nora Baaalla, N. Maaouni, Wafaa Dachry, Hassan Gziri and Hicham Medromi	A Review of Machine Learning Approaches for Predictive and Prescriptive Maintenance in Vehicle Systems
	4011	Mohamed Berrahal	A Safe Logarithmic Heuristic for Cold Start Minimization in Serverless Functions with Memory-Crash Prevention Guarantees
	4167	Aya Sbahi, Jihane Gharib and Youssef Gahi	Towards Risk-Aware AI in Industry 4.0 Value Chains: Applications, Risks, and Uncertainty Quantification Model
	4884	Amal Mouhieddine, Khalid Kouiss and Ahmed Chebak	Coupling Lean Management with Industry 4.0 Connectivity and Data Technologies: A Systematic Review
	5212	Hind Khaimimi and Jihane Gharib	From Cost to Price Cascade: Modeling New Energy Vehicle Pricing Under Policy and Market Uncertainty
	7406	Imad Taghzout, Soumia Ziti, Mohamed Yassine Achibat and Nassim Kharmoum	Generative AI for Automated Software Development to Human-Centered Applications: A Bibliometric Analysis
	7890	Mouna Berquedich, Ahmed Zellou, Khalid Kouiss and Ahmed Chebak	Semantic-Driven Failure Prediction: Leveraging Ontologies and LLMs in Fleet Management
	9156	Fatima Zahrae Berrahal	Unsupervised Anomaly Detection in Aquaculture Fish Imagery: A Comparative Study of Deep Learning Approaches
	0440	Issam Talkam, Abdessamad Belangour, Ibrahim Rouidi and Ibrahim Hamzane	Explainable AI for Adaptive Resource Allocation in Agile Projects
	0873	Walid Dalal, Houda Zaim, Dounia Rabhi and Marouane Ikira	Support Mechanisms for Startups in Industry 4.0: A Systematic Literature Review of Tech-Hubs and Accelerators
	3474	Nabil Nadah, Mohamed Kmich, Ahmed Bencherqui, Adil Sayyouri and Mhamed Sayyouri	Bio-inspired optimization for autonomous navigation of a mobile robot
	7590	Traore Mohamed Bourema, Kawtar Tikito, Said Achchab and Saliha Assoul	Sentiment-Based Technique to Enhance Machine Learning Models in American-style Vanilla Options Pricing
Track	Paper ID	Authors	Title
SSC4.0	1797	Cyprien Bailly, Yassine El Mendili, Athanas Konin and Eliane Khoury	Mechanical and thermal characterization of compressed earth blocks made from mixed soils.

	1553	Igor Ceban	Advanced Cementitious Materials with Recycled Aggregates: The Role of Nanoparticles in Enhancing Durability and Performance
	2191	Abdellah Ouhda, Abderrahim El Fadili and Monssif Najim	A novel isothermal compressed air energy storage system: An analysis from the thermodynamic perspective
	2521	Hind Es-Sady	Comparative Analysis of the Finite Element Method and Pseu-do-Jacobi–Fourier Moments for Structural Defect Detection in a 2D Plate
	8397	Tarik Jaidal, Abdelhay El Omari and Yassine Elhaloui	A Review Of Hydromechanical Modeling Of The Effects Of Climate Change On The Stability Of Retaining Structures
Track	Papaer ID	Authors	Title
INCODE	3619	Ilham Ait Taleb, Maryam Radgui and Rajaa Saidi	AI-Enhanced LC/NC Platforms for Sustainable and Inclusive Digital Transformation: A Systematic Mapping Study
	9155	Hamza Laouamri and Salma Mouline	Developing and Integrating a Domain-Specific Language to Enhance Low-Code Platform Model Automation
	2194	Zakaria Babaalla, Hamza Abdelmalek, Abdeslam Jakimi and Rachid Saadane	Prompt-Driven Extraction of UML Class Diagrams and Code Generation from Textual Specifications
	4807	Achraf Bogryn, Driss Riane, Yassine Zaoui Seghroucheni, Soumia Ziti and Chaoui Mouhsine	From DevOps to MLOps: A Systematic Comparative Analysis of Operational Paradigms for Machine Learning Systems
	5439	Chaimaa El Alami, Driss Riane, Yassine Zaoui Seghroucheni and Soumia Ziti	Cloud and Edge MLOps Architectures: A Systematic Literature Review

Sponsors et Partenaires





تحت الرعاية السامية لصاحب الجلالة الملك محمد السادس
Sous le Haut Patronage de Sa Majesté le Roi Mohammed VI
Under the High Patronage of His Majesty King Mohammed VI



جامعة محمد الخامس
الرباط - Agdal
Université Mohammed V
Agdal - Rabat

ICATH 2026



engineering
proceedings

Scopus®



Springer



IEREK



Routledge
Taylor & Francis Group

