Schedule Day 1 - Tuesday, October 14th, 2025

(GMT+2)	Auditorium (Plenary Room)	Creatio Room	Espace Forum
8:00 - 9:00		Welcome and Registration	
		Opening Ceremony	
9:00 - 10:00	Honorary chairs: Abdelhakim ARTIBA & Khaled GHEDIRA		
	General Chairs: Mourad ABED 8	Olfa BELKAHLA DRISS, ATIA Preside	nt: Farah BARIKA KTATA
		KEYNOTE Talk 1	
10:00 - 11:00	Prof. Adel S. ELMAGHRABY		
10.00 11.00		University of Louisville, USA	
		AI in Healthcare: A personal Perspect	ive
11:00 - 11:30	Po	ster Session // Networking Break	
	Parallel Sessions		
11:30-12:45	Oral Session 1	Oral Session 2	Oral Session 3
	SS. Intelligent TELA-1	SS. AI4Health & Medecine-1	SS. AI & ML in Economics & Finance-1
12:45-13:45		Lunch Break	
		Keynote Talk 2	
13:45 - 14:45	Prof. Bernadette BOUCHON-MEUNIER		
151-15 1-11-15	Sorbonne University - CNRS, France		
		out the consciousness of intelligent sy	estems en la company de la com
14:45-15:15	Poster Session // Networking Break		
		Parallel Sessions	
15:15-17:15	Oral Session 4	Oral Session 5	Oral Session 6
	SS. AI-Marine Environment	AI & Data-Driven Approaches-1	SS. AI-CyberDefense-1

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Schedule Day 2 – Wednesday October 15th, 2025

(GMT+2)	Auditorium (Plenary Room)	Creatio Room	Espace Forum
8:00 - 9:00		Welcome and Registration	
		Keynote Talk 3	
0.00 10.00	Prof. Thierry JOURQUIN		
9:00 - 10:00	Co-founder of XRintelligence		
	Talk title: X	R Rapid Prototyping Powers AI by Des	sign
10:00 - 10:30	Poster Session // Networking Break		
		Parallel Sessions	
10:30-12:45	Oral Session 7	Oral Session 8	Oral Session 9
10.30 12.43	SS. Intelligent TELA-2	SS. AI4Health & Medecine-2	SS. AI & ML in Economics & Finance-2
12:45-13:45		Lunch Break	
		Keynote Talk 4 Prof. Celestine IWENDI	
13:45 - 14:45	University of Greater Manchester, Bolton, UK		
	Talk title: Psycho-Intelligence in the Age of AI-Driven Communication		
14:45-15:15	Poster Session // Networking Break		
		Parallel Sessions	
15:15-17:15	Oral Session 10	Oral Session 11	Oral Session 12
	AI-Optimization, Supply Chains & Industry-1	AI & Data-Driven Approaches-2	SS. AI-CyberDefense-2

Schedule Day 3 – Thursday, October 16th, 2025

(GMT+2)	Auditorium (Plenary Room)	Creatio Room	Espace Forum
8:00 - 9:00		Welcome and Registration	
		Keynote Talk 5	
		Prof. Yong Hua LIN	
9:00 - 10:00	Vice president and chief engineer of Beijing Academy of Artificial Intelligence Founder of IEEE WIE Beijing		
	Talk title: Open Model, Open Data, a	nd Open Compute: Building Bridges	for Global AI Collaboration
10:00 - 10:30	Poster Session // Networking Break		
		Parallel Sessions	
10:30-12:45	Oral Session 13	Oral Session 14	Oral Session 15
	AI-Optimization, Supply Chains & Industry-2	SS. AI4Health & Medecine-3	SS. AI-Agriculture
12:45-13:15	CI	osing and Awards Ceremony	
13:15-14:15		Lunch Break	

IEEE AMCAI 2025 - Detailed Program

DAY 1: Tuesday, October 14th, 2025	
	Keynote Talk 1: AI in Healthcare: A personal Perspective Prof. Adel S. ELMAGHRABY Room: Auditorium (Plenary Room)

	Chairs: Abdessamad AIT EL CADI & Najiba BELLAAJ
	Oral Session 1 SS. Intelligent TELA-1 Room: Auditorium (Plenary Room) Chairs: Lilia CHENITI & Ghada ELKHAYAT
October 14th	ID_35: A Systematic Literature Review on Cybersecurity Education: Trends, Challenges, and the Role of AI [On-site] Yassine Mouhssine, Hicham Boutracheh, Amine Sadik, Samia Haman and Aniss Moumen
11:30-12:45	ID_137: A Data-Driven Approach to Personalized Learning via Collaborative Filtering [On-site] Waha Noomene and Mourad Abed
	ID_90: AI-Powered Tutoring and Data mining for Enhanced Education [Online] Nada Ibrahim and Ghada Elkhayat
	ID_94: Using Data Mining to Analyse Students Performance based on sociodemographic data [Online] Youssef Naser and Ghada El Khayat

	Oral Session 2 SS. SS. AI4Health & Medecine-1 Room: Creatio Room Chairs: Kamel BARKAOUI & Abir SMITI
	ID_68: Uncertainty Aware Tri-Modal Fusion with Faithful Explainability for Five-Stage Alzheimer's Disease classification [On-site] Marwa Ben Gara Ali and Abir Smiti
October 14th 11:30-12:45	ID_87: On Reconciliating Domain- and AI-Experts for Developing Reliable and Evolving AI-Powered Software Applications [On-site] Nasreddine Aoumeur, Gunter Saake and Kamel Barkaoui
Si Ja	ID_49: Artificial Intelligence (AI)-Driven Brain CT Scan Analysis Tool for Stroke Detection Using U-Net Architecture [Online] James Earl Cubillas, Francis John Saul Tin-Ao, Rhea Bete and Jeffrey Dellosa
	ID_82: Brain Tumor Classification using a Fine-Tuned Enhanced CNN [Online]
	Alaeddine Hmidi and Neji Kouka

October 14th 11:30-12:45	Oral Session 3 SS. AI & ML in Economics & Finance-1 Room: Espace Forum Chairs: Nadia ABAOUB & Chokri SLIM ID_135: Navigating Financial Instability: An Interpretable paradigm for Multi-Label Crisis Prediction [Online] Ravjot Kaur, Debashis Guha and Gurasis Singh ID_41: Unveiling Volatility Drivers: Machine Learning and SHAP Across Weak and Strong Institutions [On-site] Mohamed Malek Belhoula and Ichrak Dridi
	ID_39: Artificial Intelligence and Advanced Technologies in Mobile Banking: A Systematic Literature Review [On-site]
	Ahmed Hentati and Rim Jallouli
	ID_83: FinTech Development as a Mediator in the Risk-ESG Nexus: A Study of Banks in the GCC Region [On-site] Samir Srairi

	Keynote Talk 2: About the consciousness of intelligent systems
October 14th	Prof. Bernadette BOUCHON-MEUNIER
13:45 - 14:45	Room: Auditorium (Plenary Room)
	Chairs: Ghada ELKHAYAT & Ilhem KALLEL

	Oral Session 4
	SS. AI-Marine Environment
	Room: Auditorium (Plenary Room)
	Chairs: Ali HARZALLAH & Emna BOUMEDIENE
	ID_70: AI-Driven Detection and Classification of Toxic Microalgae [Online]
	Farah Khemakhem , Yosr Ghozzi, Fatma Abdmouleh, Rim Ktari-Zouari, Ismail Boudriga, Yosra Khammeri, Lamia Dammak, Raida Ktari and Malika Belhassen
October 14th	ID_72: Integrating Machine Learning for Diatom Community Classification in the Gulf of Gabes [Online]
15:15-17:15	Lamia Dammak , Fatma Abdmouleh Keskes, Asma Hamza and Malika Belhassen
	ID_80: Evaluating Machine Learning, Time Series, and Hybrid Models for Coastal Fish Production Forecasting under Climatic Variability [On-Site] Rim Ktari-Zouari, Hajer Bendaya, Yosr Ghozzi, Raïda Ktari and Ali Harzallah
	ID_84: Enhanced Prediction of Marine Eutrophication: A Case Study in Lagoon of Bizerte [On-Site]
	Hajer Bendaya, Raïda Ktari, Yosr Ghozzi, Rim Ktari-Zouari and Béchir Béjaoui

	Oral Session 5
	AI & Data-Driven Approaches-1
	Room: Creatio Room
	Chairs: Wassim AYADI & Faten ZOGHLAMI
	ID_120: Advanced Hierarchical Classification Approach for Document Categorization [On-site]
October 14th	Mamadou Alpha Hawa Balde, Pirlouit Dumez, Meriam Belgaroui , Guillaume Prevost and Salah Zidi
15:15-17:15	ID_122: Deep Learning Model for Predicting Foreign Language Enjoyment Using Eye-Tracking Data [Online]
	Riadh Harizi, Amani Bouzayenne and Makram Soui
	ID_113: NLP-Based Automatic Depression Detection on Social Media: An Overview with a Focus on Arabic-Language Data [Online]
	Maroua Jaafri and Hadhemi Achour
	ID_81: Systematic Review on Sarcasm and Irony Detection in Social Media using PRISMA [Online]
	Maram Yakoubi, Imtiez Fliss and Olfa Belkahla Driss
	Oral Session 6
	SS. AI-CyberDefense-1
	Room: Espace Forum
	Chairs: Chloé Hiba ALQASIR & Farah JEMILI
	Chairs: Chloé Hiba ALQASIR & Farah JEMILI ID_93: AI-Driven Biometric Authentication in IoT Systems: A Survey on Trade-offs, Modalities, and Comparative Performance with Non-AI Approaches [On-site]
	ID_93: AI-Driven Biometric Authentication in IoT Systems: A Survey on Trade-offs, Modalities, and Comparative Performance with Non-AI
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	ID_93: AI-Driven Biometric Authentication in IoT Systems: A Survey on Trade-offs, Modalities, and Comparative Performance with Non-AI Approaches [On-site] Ahmed Elouni, Rachid Zagrouba and Ezzeddine Zagrouba ID_121: Study and Enhancement of MFA Security through Predictive Phishing Detection in Cloud Environments [Online]
	ID_93: AI-Driven Biometric Authentication in IoT Systems: A Survey on Trade-offs, Modalities, and Comparative Performance with Non-AI Approaches [On-site] Ahmed Elouni, Rachid Zagrouba and Ezzeddine Zagrouba ID_121: Study and Enhancement of MFA Security through Predictive Phishing Detection in Cloud Environments [Online] Ghada Akacha and Fatma Siala ID_46: Survey and Classification of Protecting Solutions against AI-
	ID_93: AI-Driven Biometric Authentication in IoT Systems: A Survey on Trade-offs, Modalities, and Comparative Performance with Non-AI Approaches [On-site] Ahmed Elouni, Rachid Zagrouba and Ezzeddine Zagrouba ID_121: Study and Enhancement of MFA Security through Predictive Phishing Detection in Cloud Environments [Online] Ghada Akacha and Fatma Siala ID_46: Survey and Classification of Protecting Solutions against AI-Powered and AI-Driven Cyber Attacks [Online]
	ID_93: AI-Driven Biometric Authentication in IoT Systems: A Survey on Trade-offs, Modalities, and Comparative Performance with Non-AI Approaches [On-site] Ahmed Elouni, Rachid Zagrouba and Ezzeddine Zagrouba ID_121: Study and Enhancement of MFA Security through Predictive Phishing Detection in Cloud Environments [Online] Ghada Akacha and Fatma Siala ID_46: Survey and Classification of Protecting Solutions against AI-Powered and AI-Driven Cyber Attacks [Online] Rana Ezzine, Bayrem Triki and Ouajdi Korbaa ID_117: User Privacy and QoS Forecasting in Mobile Edge Computing: A

Hadil Ben Romdhane, Farah Jemili, Khaled Jouini and Ouajdi Korbaa

Keynote Talk 3: XR Rapid Prototyping Powers AI by Design

Prof. Thierry JOURQUIN

9:00 - 10:00 Room: Auditorium (Plenary Room)

Chairs: Adel ELMAGHRABY & Christophe KOLSKI

Oral Session 7

SS. Intelligent TELA-2

Room: Auditorium (Plenary Room)

Chairs: Lilia CHENITI & Ghada ELKHAYAT

ID 97: A Hybrid Framework for Personalized Scientific Artciles Recommendation with LLM-Driven Explanations [Online]

Khawla Elayadi and Nacim Yanes

ID 104: Ontology-Driven Personalized Recommendation of Open Educational Resources: Modeling User Profiles and Learning Needs [Online]

Nermine Janfeoui, Asma Haydaoui and Lilia Cheniti

ID 95: From RFM to ERFM: Modeling and Clustering Student Engagement Using Online Interaction Logs [Online]

October 15th 10:30-12:45

Amira Mohamed Abdelsalam and Ghada El Khayat

ID_74: An ontology-based Framework for AI-Driven Stealth Assessment in Inclusive Collaborative Environment [Online]

Hiba Haj Mahmoud, Asma Hadyaoui and Lilia Cheniti-Belcadhi

ID 56: AI in Children's Education: Applications of Machine Learning and Large Language Models, Benefits, and Challenges [Online]

Asma Abdaoui, Houssem Eddine Nouri and Olfa Belkahla Driss

ID 77: ADAPTIVE-AI: Towards a Gamified Framework for Adaptive Intelligent Open Assessment [Online]

Zeineb Ben Azzouz and Lilia Cheniti-Belcadhi

ID 132: Artificial Intelligence in Student Profiling: A Bibliometric Review [On-site]

Hanane Maroufi, Nouhaila Farajy and Aniss Moumen

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	Oral Session 8 SS. AI4Health & Medecine-2
	Room: Creatio Room
	Chairs: Bertrand CANAPLE & Issam NOUAOURI
	ID_124: Using Cytopathological Microscopic Images for Diagnosing Papillary Thyroid Carcinoma [Online] Van De Nguyen, Tien Dung Vu, Trong Hieu Nguyen, Dinh Tung Pham and Phuong Le-Hong
October 15th	ID_96: Evaluating Multi-Level LLM Integration for Interpretable Medication Recommendation via Graph-Based Clinical Modeling [Online]
10:30-12:45	Mayssa Kilani, Sarra Laaouar and Nacim Yanes ID_67: Multimodal Fusion for Mental Health Detection on Imbalanced Data [Online]
	Mariam Mchirgui, Farah Jemili and Ouajdi Korbaa
	ID_92: A Survey of Home HealthCare Optimization Problem [On-line]
	Emna Ben Amri, Bilel Marzouki and Olfa Belkahla Driss
	ID_60: Deep Learning Approaches for the Early Diagnosis and Classification of Diabetic Retinopathy and Macular Edema [Online]
	Mayssa Emmales, Farah Jemili and Ouajdi Korbaa
	Oral Session 9
	SS. AI & ML in Economics & Finance-2
	Room: Espace Forum
	Chairs: Nadia ABAOUB & Rim JALLOULI
	ID 75: ML Forecasting of Tunisia's Regulatory Freedom Index [On-site]
	Amani Driss and Yamina Mathlouthi
October 15th	ID_47: Forecast-driven portfolio optimization: a machine learning GJR-GARCH-Copula framework for high-frequency mean-CVaR portfolios [Online] Zied Jelassi and Haykel Hamdi
10:30-12:45	ID_48: Cryptocurrency volatility forecasting using GARCH, LSTM, hybrid GARCH-LSTM and hybrid GARCH-LSTM and CNN-LSTM with intraday frequency [Online]
	Houssemeddine Jlassi and Haykel Hamdi
	ID_42: Hybrid Deep Learning Ensemble Models for Enhanced Financial Volatility Forecasting [Online]
	Boutheina Zouaoui Drira, Haykel Hamdi and Ines Ben Jaafar
	ID_123: A sentiment-driven AI model incorporating sentiment decay for stock market forecasting [Online] Olfa Belhassine and Mohamed Badis Abid
	ID_101: Advancing smart transportation through AI for sustainable traffic management [Online]

Sonia Mrad and Rafaa Mraihi

Communication

October 15th

Prof. Celestine IWENDI

Room: Auditorium (Plenary Room)

Chair: Imed Riadh FARAH & Abdelghani REKRAR

	Chair: Imed Riadh FARAH & Abdelghani BEKRAR
	Oral Session 10
	AI-Optimization, Supply Chains & Industry-1
	Room: Auditorium (Plenary Room)
	Chairs: Najiba BELLAAJ & Bilel MARZOUKI
	ID_85: AI-Driven Strategies for Reducing Carbon Footprint and Energy Use in Big Data Infrastructures: A Cross-Domain Review [On-site]
October 15th	Emna Hosni and Abderrazek Jemai
15:15-17:15	ID_86: Rest Allowance Models for Optimizing Task Scheduling and Worker Well-being in Industry [On-site]
	Dorsaf Aribi, Olfa Belkahla Driss and Hind Bril El-Haouzi
	ID_112: Fuzzy and Neural-Fuzzy controllers for obstacle avoidance and goals tracking for a mobile robot [On-site]
	Chiraz Ben Jabeur, Wassim Arfa and Hassene Seddik
	ID_98: Quantum Computing for Scheduling Problems: A Survey [Online]
	Sirine Ben Ammar, Bilel Marzouki and Olfa Belkahla Driss

	Sirine Ben Ammar, Bilel Marzouki and Olfa Belkahla Driss		
	Oral Session 11		
	AI & Data-Driven Approaches-2		
	Room: Creatio Room		
	Chairs: Ilhem KALLEL & Mouna DENDEN		
	ID_130: Optimizing cardiac surgery waiting lists with machine learning: A data-driven approach for clinical prioritization [On-site]		
	Karina Zaccari Ohmedilla Gagliotti and Marco Antonio Gutierrez		
October 15th	ID_34: Assessment and AI Analytics of Students' Motivation and Skills:		
15:15-17:15	Case of Blending different Methods in Learning Art and Design [On-site]		
	Rym Bouhamed		
	ID_40: Enhancing Image Captioning with SWIN, DETR, and GPT: A Unified Transformer Framework [Online]		
	Mohamed Sahli and Mohamed Farah		
	ID_129: Capacity Re-Balancing in Multi-Task Dense Prediction via Low-Rank Experts and Task-Specific Attentive Projection [Online]		
	Mahmoud Henidak, Ibrahim Sobh and Hesham Ibrahim		

	Oral Session 12		
	SS. AI-CyberDefense-2 Room: Espace Forum Chairs: Wassim AYADI & Farah JEMILI		
	ID_59: A Fuzzy Colored Petri-Net Approach for Hybrid Intrusion Prediction [Online]		
	Mayssa Emmales, Farah Jemili and Ouajdi Korbaa		
October 15th	ID_61: Hybrid Shaping with LIME and Counterfactual Explanations (DiCE) for Explainable AI in Intrusion Detection Systems [Online]		
15:15-17:15	Mohamed Aziz Ben Kacem, Farah Jemili and Ouajdi Korbaa		
	ID_36: Building Trust in Smart Cities: A Secure, On-Premise AI Chatbot		
	for Urban Planning Applications [Online]		
	Avraam Bardos, Theoktisti Marinopoulou, Antonios Lalas and Konstantinos Votis		
ID 66: Enhancing Cybersecurity with Federated Learning: A Hybrid			
	Learning Approach for Intrusion Detection Systems [Online]		
	Marwa Agili, Bayrem Triki, Farah Jemili and Ouajdi Korbaa		
	ID_76: PhantomPulse: An AI-Based Vulnerability Scanner with Predictive		
	CVSS Scoring using Ensemble Learning [Online]		
	Arij Aissa, Mayssa Emmales , Farah Jemili and Ouajdi Korbaa		

DAY 3: Thursday, October 16th, 2025

Reynote Talk 5: Open Model, Open Data, and Open Compute: Building Bridges for Global AI Collaboration Prof. Yong Hua LIN Room: Auditorium (Plenary Room) Chairs: Khaled GHEDIRA & Thierry DELOT
Oral Session 13 AI-Optimization, Supply Chains & Industry-2 Room: Auditorium (Plenary Room)
Chair: Alaa DAOUD & Bilel MARZOUKI
ID_111: Mapping Industry 4.0 technologies in the supply chain processes [On-site]
Samia Haman, Anass Ben Abdelouahab, Younes El Bouzekri El Idrissi, Safae Merzouk, Kawtar Oubdi, Yassine Mouhssine and Aniss Moumen
ID_37: An ML and Feature Engineering Based-Approach for Precision Marketing in Omni-Channel Business: A Case Study of Moroccan Nouhaila El Koufi, Essa Almazroei and Amine El Koufi
ID_116: Multi-Objective Evolutionary Algorithms for Human-Robot Collaborative Scheduling in Energy-Efficient Welding Shop Amel Haddaji, Houssem Eddine Nouri and Olfa Belkahla Driss
ID_136: Emergence of Altruistic Behavior in a Population of Cognitive Ants: A Prospective Solution to Data Center Location Problem [On-site] Malak Chniter, Ilhem Kallel and Slim Kanoun

	Oral Session 14		
	SS. AI4Health & Medecine-3		
October 16th 10:30-12:45	Room: Creatio Room		
	Chairs: Issam NOUAOURI & Samir SRAIRI		
	ID_88: Using K-Means Clustering for Unsupervised Profiling of Heart		
	Disease Patients [Online]		
	Khaoula Benabderrahim , Mounira Tarhouni, Salah Zidi and Najoua Benneji		
	ID_43: Improving Emergency Triage in Crisis Situations: A Hybrid GAN-		
	Boosting Approach with ML [On-site]		
	Amel Zidi, Issam Nouaouri and Ines Ben Jaafar		
	ID_64: Scalable and Explainable Heart Disease Prediction On Imbalanced Data [Online]		
	Mayssa Ben Fekih, Farah Jemili and Ouajdi Korbaa		
Oral Session 15			
	SS. AI-Agriculture		
	Room: Espace Forum		
	Chairs: Imed Riadh FARAH & Mouna DENDEN		
October 16th 10:30-12:45	ID 99: A Food Security Data Cube (FSDC) system integrating simulated		
	climate change scenarios: application to Yield forecasting in Tunisia [On-		
	site]		
	Jarray Noureddine, Ali Ben Abbes and Imed Riadh Farah		
	ID_63: Ensemble Learning on Real-World Data for Olive Oil Authentication and Olive Tree Yield Prediction		
	Imen Khatib, Salma Mezghani, Farah Jemili, Mouna Aïachi Mezghani and		
	Ouajdi Korbaa		
	ID_133: Predicting Infrastructure Vulnerability To Climate Change From		
	Street Level Imagery [Online]		
	Grace Iordanov		
	ID_45: Multispectral Image Analysis for Agricultural Crop Classification		
	in Peru Using Deep Learning Techniques [Online]		
	Andres Flores and Jamir Villarroel		

Posters

Amani Ben Othman, Jarray Noureddine , Mohamed Sadok Bel Kadhi, Kamal Nagaz and Mohamed Braham	Field Host Preference Analysis of Dacus frontalis (Diptera: Tephritidae) Under Southern Tunisian Conditions Using Machine Learning Approaches
Eyaa Naimi and Mourad Abed	Identifying At-Risk Students in Educational Metaverse Using TAM and Data Analysis
Dorsaf Aribi , Olfa Belkahla Driss and Hind Bril El-Haouzi	Human-centred Dynamic and Flexible scheduling problem
Salome Enoshi Uwah, Celestine O. Iwendi and Olayinka Anthony Ojo	Predictive Analysis of Family-Friendly Policies for Retaining Women in STEM Careers Using Machine Learning