

Schedule Day 1 – Tuesday 14th October

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

Schedule Day 2 – Wednesday 15th October

(GMT+2)	Auditorium (Plenary Room)	Creatio Room	Espace Forum
8:00 - 9:00	Welcome and Registration		
9:00 - 10:00	Keynote Talk 3 Prof. Thierry JOURQUIN Co-founder of XRintelligence Talk title: XR Rapid Prototyping Powers AI by Design		
10:00 - 10:30	Poster Session // Networking Break		
10:30-12:45	Parallel Sessions		
	Oral Session 7	Oral Session 8	Oral Session 9
	SS. Intelligent TELA-2	SS. AI4Health & Medecine-2	SS. AI & ML in Economics & Finance-2
12:45-13:45	Lunch Break		
13:45 - 14:45	Keynote Talk 4 Prof. Celestine IWENDI 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		
15:15-17:15	Parallel Sessions		
	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 16th October

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

IEEE AMCAI 2025 - Detailed Program

DAY 1: Tuesday 14th October, 2025

10:00-11:00	Keynote Talk 1: AI in Healthcare: A personal Perspective Prof. Adel S. ELMAGHRABY Room: Auditorium (Plenary Room) Chairs: Mourad ABED & Najiba BELLAJ
11:30-12:45	Oral Session 1 SS. Intelligent TELA-1 Room: Auditorium (Plenary Room) Chairs: Lilia CHENITI & Ghada ELKHAYAT 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 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
11:30-12:45	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 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 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
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

	<p>ID_41: Unveiling Volatility Drivers: Machine Learning and SHAP Across Weak and Strong Institutions [On-site] Mohamed Malek Belhoula and Ichrak Dridi</p> <p>ID_44: Inclusive Growth in Tunisia: Investigating the Role of Containerized Maritime Transport Using a Dynamic ARDL and Machine Learning Model [Online] Manel Ouni and Rafaa Mraihi</p> <p>ID_83: FinTech Development as a Mediator in the Risk-ESG Nexus: A Study of Banks in the GCC Region [On-site] Samir Srairi</p>
<p>13:45 - 14:45</p>	<p>Keynote Talk 2: About the consciousness of intelligent systems Prof. Bernadette BOUCHON-MEUNIER Room: Auditorium (Plenary Room) Chair: Ilhem KALLEL</p>
<p>15:15-17:15</p>	<p>Oral Session 4 SS. AI-Marine Environment Room: Auditorium (Plenary Room) Chairs: Ali HARZALLAH & Emna BOUMEDIENE</p> <p>ID_70: AI-Driven Detection and Classification of Toxic Microalgae [Online] Farah Khemakhem, Yosr Ghazzi, Fatma Abdmouleh, Rim Ktari-Zouari, Ismail Boudriga, Yosra Khammeri, Lamia Dammak, Raida Ktari and Malika Belhassen</p> <p>ID_72: Integrating Machine Learning for Diatom Community Classification in the Gulf of Gabes [Online] Lamia Dammak, Fatma Abdmouleh Keskes, Asma Hamza and Malika Belhassen</p> <p>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 Ghazzi, Raïda Ktari and Ali Harzallah</p> <p>ID_84: Enhanced Prediction of Marine Eutrophication: A Case Study in Lagoon of Bizerte [On-Site] Hajer Bendaya, Raïda Ktari, Yosr Ghazzi, Rim Ktari-Zouari and Béchir Béjaoui</p>
<p>15:15-17:15</p>	<p>Oral Session 5 AI & Data-Driven Approaches-1 Room: Creatio Room Chairs: Wassim AYADI & Faten ZOGHLAMI</p> <p>ID_120: Advanced Hierarchical Classification Approach for Document Categorization [On-site] Mamadou Alpha Hawa Balde, Pirlouit Dumez, Meriam Belgaroui, Guillaume Prevost and Salah Zidi</p> <p>ID_122: Deep Learning Model for Predicting Foreign Language Enjoyment Using Eye-Tracking Data [Online] Riadh Harizi, Amani Bouzayenne and Makram Soui</p> <p>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</p>

	<p>ID_81: Systematic Review on Sarcasm and Irony Detection in Social Media using PRISMA [Online] Maram Yakoubi, Imtiaz Fliss and Olfa Belkahla Driss</p>
15:15-17:15	<p>Oral Session 6 SS. AI-CyberDefense-1 Room: Espace Forum Chairs: Mohamed Malek BELHOULA & Farah JEMILI</p> <p>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</p> <p>ID_121: Study and Enhancement of MFA Security through Predictive Phishing Detection in Cloud Environments [Online] Ghada Akacha and Fatma Siala</p> <p>ID_46: Survey and Classification of Protecting Solutions against AI-Powered and AI-Driven Cyber Attacks [Online] Rana Ezzine, Bayrem Triki and Ouajdi Korbaa</p> <p>ID_117: User Privacy and QoS Forecasting in Mobile Edge Computing: A Multi-Agent System Approach [Online] Nada Ghazouani, Fatma Siala Kallel and Olfa Belkahla Driss</p> <p>ID_65: Enhancing Intrusion Detection with Transformers and Context-Aware GANs [Online] Hadil Ben Romdhane, Farah Jemili, Khaled Jouini and Ouajdi Korbaa</p>
DAY 2: Wednesday 15th October, 2025	
9:00 - 10:00	<p>Keynote Talk 3: XR Rapid Prototyping Powers AI by Design Prof. Thierry JOURQUIN Room: Auditorium (Plenary Room) Chairs: Adel ELMAGHRABY & Ghada ELKHAYAT</p>
10:30-12:45	<p>Oral Session 7 SS. Intelligent TELA-2 Room: Auditorium (Plenary Room) Chairs: Lilia CHENITI & Ghada ELKHAYAT</p> <p>ID_97: A Hybrid Framework for Personalized Scientific Articles Recommendation with LLM-Driven Explanations [Online] Khawla Elayadi and Nacim Yanes</p> <p>ID_104: Ontology-Driven Personalized Recommendation of Open Educational Resources: Modeling User Profiles and Learning Needs [Online] Nermine Janfeoui, Asma Haydaoui and Lilia Cheniti</p> <p>ID_95: From RFM to ERFM: Modeling and Clustering Student Engagement Using Online Interaction Logs [Online] Amira Mohamed Abdelsalam and Ghada El Khayat</p> <p>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</p>

	ID_56: AI in Children's Education: Applications of Machine Learning and Large Language Models, Benefits, and Challenges [Online] Asma Abdaoui , Housseem 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
10:30-12:45	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
	ID_96: Evaluating Multi-Level LLM Integration for Interpretable Medication Recommendation via Graph-Based Clinical Modeling [Online] 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
10:30-12:45	Oral Session 9 SS. AI & ML in Economics & Finance-2 Room: Espace Forum Chairs: Nadia ABAOUB & Rim JALLOULI
	ID_39: Artificial Intelligence and Advanced Technologies in Mobile Banking: A Systematic Literature Review [On-site] Ahmed Hentati and Rim Jallouli
	ID_75: ML Forecasting of Tunisia's Regulatory Freedom Index [On-site] Amani Driss and Yamina Mathlouthi
	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
	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_101: Advancing smart transportation through AI for sustainable traffic management [Online]

	Sonia Mrad and Rafaa Mrahi ID_123: A sentiment-driven AI model incorporating sentiment decay for stock market forecasting [Online] Olfa Belhassine and Mohamed Badis Abid
13:45 - 14:45	Keynote Talk 4: Psycho-Intelligence in the Age of AI-Driven Communication Prof. Celestine IWENDI Room: Auditorium (Plenary Room) Chair: Imed Riadh FARAH
15:15-17:15	Oral Session 10 AI-Optimization, Supply Chains & Industry-1 Room: Auditorium (Plenary Room) Chairs: Najiba BELLAJ & Bilel MARZOUKI ID_85: AI-Driven Strategies for Reducing Carbon Footprint and Energy Use in Big Data Infrastructures: A Cross-Domain Review [On-site] Emna Hosni and Abderrazek Jemai 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
15:15-17:15	Oral Session 11 AI & Data-Driven Approaches-2 Room: Creatio Room Chairs: Ihem 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 ID_34: Assessment and AI Analytics of Students' Motivation and Skills: 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
15:15-17:15	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

	ID_61: Hybrid Shaping with LIME and Counterfactual Explanations (DiCE) for Explainable AI in Intrusion Detection Systems [Online] 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 Deep 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 16th October, 2025

9:00 - 10:00	Keynote 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
10:30-12:45	Oral Session 13 AI-Optimization, Supply Chains & Industry-2 Room: Auditorium (Plenary Room) Chair: Ilhem KALLEL & 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 , Housseem 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
10:30-12:45	Oral Session 14 SS. AI4Health & Medecine-3 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

	<p>ID_64: Scalable and Explainable Heart Disease Prediction On Imbalanced Data [Online] Mayssa Ben Fekih, Farah Jemili and Ouajdi Korbaa</p>
10:30-12:45	<p>Oral Session 15 SS. AI-Agriculture Room: Espace Forum Chairs: Imed Riadh FARAH & Mouna DENDEN</p> <p>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</p> <p>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</p> <p>ID_133: Predicting Infrastructure Vulnerability To Climate Change From Street Level Imagery [Online] Grace Iordanov</p> <p>ID_45: Multispectral Image Analysis for Agricultural Crop Classification in Peru Using Deep Learning Techniques [Online] Andres Flores and Jamir Villarroel</p>